

Science: Physical Science / Reasoning (S031446A - S01\_01A)  
 Label: New shirt/ results  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	608	4.3	1.1	0.2	1.4	5.7	37.7	44.9	4.7	5.6	7.5	3.7
Armenia	568	18.6	3.7	3.8	3.6	1.4	14.7	53.8	0.4	26.1	27.3	25.0
Australia	583	37.6	3.6	0.0	5.4	2.7	32.4	18.2	0.1	41.1	46.2	36.1
Austria	687	18.3	3.7	0.0	7.1	3.8	23.0	43.7	0.4	22.0	26.7	17.8
Chinese Taipei	587	42.1	1.4	0.1	3.3	7.8	25.7	19.7	0.0	43.5	48.8	38.7
Colombia	665	16.3	3.4	0.3	0.9	7.2	30.7	37.1	4.2	19.9	20.4	19.5
Czech Republic	612	16.5	3.6	0.0	5.8	3.0	28.9	42.2	0.1	20.1	24.1	15.8
Denmark	492	27.3	5.3	1.2	2.1	3.2	32.9	27.1	1.0	33.7	34.6	32.7
El Salvador	595	9.5	3.0	1.2	0.7	6.4	34.3	41.0	3.8	13.7	14.7	12.6
England	592	41.9	4.4	0.0	8.0	3.3	26.4	16.1	0.0	46.3	51.3	42.1
Georgia	588	10.0	1.2	2.3	0.2	1.6	20.7	61.6	2.6	13.4	14.2	12.7
Germany	759	23.5	6.9	0.0	6.5	7.5	27.2	27.4	1.1	30.4	32.5	27.9
Hong Kong SAR	542	46.4	2.3	0.2	3.5	7.0	21.1	19.5	0.0	48.9	52.8	45.0
Hungary	578	28.8	11.8	0.0	3.9	7.1	31.0	17.3	0.1	40.6	44.7	36.0
Iran, Islamic Rep. of	553	17.6	3.4	2.2	8.5	2.3	36.5	27.9	1.6	23.2	26.8	19.5
Italy	636	37.7	2.9	1.7	6.5	1.8	21.9	27.5	0.0	42.2	40.9	43.6
Japan	643	47.8	4.5	10.5	6.5	5.2	22.1	3.3	0.0	62.9	68.1	58.6
Kazakhstan	566	20.5	6.8	0.1	3.1	0.2	44.1	25.1	0.0	27.4	25.4	29.7
Kuwait	544	3.8	0.2	0.5	1.0	2.9	47.1	43.9	0.6	4.5	7.4	1.3
Latvia	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	565	31.2	4.6	1.9	6.1	3.7	26.0	26.3	0.1	37.7	40.7	34.8
Morocco	556	0.7	0.4	0.8	1.4	0.6	17.6	75.9	2.7	1.8	2.2	1.5
Netherlands	478	21.9	5.8	1.0	6.0	9.7	40.3	15.2	0.0	28.8	27.1	30.1
New Zealand	703	29.2	7.5	0.0	5.9	5.1	33.8	17.7	0.9	36.7	41.9	31.2
Norway	577	9.1	2.8	0.0	2.2	5.0	31.4	48.8	0.7	11.9	16.6	8.3
Qatar	985	0.8	0.0	0.0	0.0	1.3	52.1	44.3	1.4	0.8	1.2	0.4
Russian Federation	632	32.6	7.0	0.0	1.6	2.1	29.8	26.9	0.0	39.5	42.2	37.1
Scotland	568	31.1	4.6	0.0	7.3	7.0	30.1	19.1	0.7	35.6	39.3	31.8
Singapore	718	42.8	1.8	0.0	5.5	3.8	36.6	9.5	0.0	44.6	49.1	40.6
Slovak Republic	703	24.6	3.0	0.5	3.7	4.0	26.1	36.8	1.3	28.1	32.3	24.3
Slovenia	622	40.2	1.8	0.5	13.1	2.8	32.1	8.8	0.7	42.6	43.9	41.2
Sweden	665	31.8	4.6	0.8	4.0	3.1	35.3	20.4	0.0	37.1	41.5	32.5
Tunisia	590	3.8	0.4	0.6	0.8	2.0	55.9	32.2	4.2	4.8	4.0	5.5
Ukraine	617	14.7	1.6	3.5	1.6	1.0	33.4	43.8	0.3	19.8	23.0	17.3
United States	1111	32.0	7.2	0.1	11.6	7.7	38.1	2.9	0.5	39.3	43.6	34.4
Yemen	827	0.4	0.1	0.1	0.1	0.9	43.4	52.6	2.4	0.6	0.7	0.5
International Avg.	638	23.3	3.6	1.0	4.3	4.0	32.0	30.8	1.0	27.9	30.4	25.4
Alberta, Canada	565	34.9	6.7	0.0	8.8	4.7	27.7	17.2	0.2	41.5	45.5	38.5
British Columbia, Canada	592	36.0	5.0	0.0	6.5	5.3	27.4	19.5	0.4	41.0	43.5	38.6
Dubai, UAE	424	21.5	3.1	0.2	3.2	4.8	31.0	35.6	0.5	24.9	27.7	22.3
Massachusetts, US	243	47.9	7.6	0.0	14.5	6.2	21.8	1.5	0.5	55.5	54.9	56.1
Minnesota, US	264	38.7	9.6	0.0	11.3	7.2	31.8	1.4	0.0	48.3	47.7	48.7
Ontario, Canada	491	35.9	8.1	0.3	7.8	6.9	29.1	11.9	0.0	44.3	45.2	43.5
Quebec, Canada	558	28.2	5.7	0.0	6.1	7.0	32.8	20.2	0.0	33.9	40.5	26.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031446B - S01\_01B)  
 Label: New shirt/ wrong shirt or not  
 Type: CR Key: -

COUNTRY	N	10	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	609	2.9	0.2	22.8	33.6	16.0	17.5	7.0	3.1	4.5	1.6
Armenia	568	14.6	13.0	24.1	20.0	3.5	23.7	1.3	27.5	30.4	24.8
Australia	583	33.4	0.0	35.2	25.4	2.5	3.0	0.5	33.4	42.6	24.3
Austria	687	26.6	0.0	43.0	22.8	0.9	6.3	0.4	26.6	32.1	21.7
Chinese Taipei	587	38.5	1.4	30.1	27.3	2.1	0.6	0.0	39.9	45.5	34.7
Colombia	665	15.3	0.6	34.4	36.1	1.4	6.0	6.1	15.9	16.8	15.1
Czech Republic	610	25.3	0.3	43.6	26.8	0.6	3.1	0.2	25.6	32.2	18.7
Denmark	492	23.1	0.2	40.8	24.7	4.9	4.7	1.6	23.2	28.9	16.4
El Salvador	595	6.8	1.0	35.6	36.7	5.3	6.3	8.3	7.8	11.4	3.5
England	592	41.5	0.0	24.9	30.5	0.7	2.2	0.2	41.5	47.9	36.3
Georgia	588	5.5	2.0	30.0	31.4	4.9	22.0	4.2	7.5	8.7	6.5
Germany	759	31.3	0.0	38.5	23.3	0.5	4.9	1.4	31.3	35.6	26.3
Hong Kong SAR	542	37.1	0.1	39.5	21.5	0.8	0.9	0.0	37.2	39.2	35.2
Hungary	578	37.6	0.0	33.9	20.9	3.7	3.2	0.7	37.6	49.0	24.9
Iran, Islamic Rep. of	553	18.7	1.0	42.2	30.1	2.9	3.3	1.7	19.8	24.9	14.6
Italy	636	34.3	2.3	32.4	20.6	1.1	9.2	0.2	36.6	37.1	36.1
Japan	643	34.0	16.9	30.1	15.9	2.2	0.8	0.2	50.8	53.0	49.1
Kazakhstan	565	19.2	0.0	48.7	27.7	0.7	3.7	0.1	19.2	20.8	17.3
Kuwait	544	4.8	0.5	40.5	41.3	4.4	6.7	1.7	5.4	7.9	2.6
Latvia	541	33.7	0.2	37.2	23.9	3.1	1.3	0.6	33.9	38.2	29.8
Lithuania	565	24.7	0.2	33.8	37.4	1.5	1.6	0.8	24.9	32.5	17.6
Morocco	554	4.6	0.0	27.6	42.7	6.7	13.8	4.7	4.6	4.1	5.1
Netherlands	478	33.5	0.8	40.2	20.9	4.0	0.5	0.3	34.3	36.5	32.6
New Zealand	703	35.8	0.3	26.5	32.8	1.3	2.3	0.9	36.2	39.5	32.7
Norway	577	12.9	0.0	57.0	25.8	0.9	2.2	1.1	12.9	17.4	9.4
Qatar	985	2.6	0.0	29.9	57.9	1.6	6.0	2.1	2.6	3.4	1.8
Russian Federation	632	33.0	0.0	36.7	27.3	0.5	2.5	0.0	33.0	36.7	29.6
Scotland	568	32.3	0.0	36.3	26.3	0.6	2.9	1.6	32.3	37.5	26.7
Singapore	718	37.6	0.0	33.7	25.1	3.2	0.3	0.0	37.6	47.8	28.3
Slovak Republic	703	22.0	0.1	38.2	30.2	1.1	6.6	1.7	22.1	26.9	17.9
Slovenia	622	33.1	0.2	39.7	23.7	0.7	1.6	1.0	33.3	36.4	30.1
Sweden	665	29.3	1.6	41.2	23.9	1.3	2.7	0.1	30.8	39.0	22.2
Tunisia	590	5.5	0.4	33.9	36.2	12.8	5.0	6.3	5.9	7.0	4.9
Ukraine	617	9.0	4.1	40.4	39.6	1.5	4.6	0.8	13.1	13.8	12.5
United States	1111	35.6	0.0	31.8	26.5	3.5	1.9	0.5	35.6	41.2	29.4
Yemen	834	0.4	0.0	19.1	43.8	16.3	17.3	3.1	0.4	0.9	0.0
International Avg.	635	23.2	1.3	35.4	29.5	3.3	5.6	1.7	24.5	28.5	20.6
Alberta, Canada	565	35.9	0.0	32.2	26.1	2.2	2.8	0.8	35.9	40.4	32.4
British Columbia, Canada	592	30.3	0.0	33.2	25.7	4.2	6.0	0.7	30.3	33.5	27.2
Dubai, UAE	424	22.9	0.5	37.3	30.2	2.8	5.1	1.2	23.4	26.9	20.2
Massachusetts, US	243	45.5	0.0	24.9	24.9	2.8	0.8	1.3	45.5	51.7	38.5
Minnesota, US	264	42.3	0.0	30.8	23.5	2.4	1.0	0.0	42.3	42.8	41.8
Ontario, Canada	491	30.8	0.0	29.6	30.8	3.4	5.1	0.3	30.8	30.1	31.4
Quebec, Canada	558	37.4	0.4	30.1	24.7	3.2	4.1	0.2	37.8	43.6	31.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031446C - S01\_01C)  
 Label: New shirt/ color of light bulb  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	609	14.4	7.9	12.1	29.4	29.2	7.1	14.4	15.6	13.2
Armenia	567	30.0	16.9	3.7	19.8	28.4	1.4	30.0	31.4	28.7
Australia	583	53.9	17.9	6.2	14.9	6.7	0.5	53.9	57.4	50.3
Austria	687	56.3	17.7	6.2	9.6	9.7	0.5	56.3	53.7	58.6
Chinese Taipei	587	66.6	15.9	4.2	10.9	2.4	0.0	66.6	67.7	65.5
Colombia	665	44.5	17.5	7.0	16.4	7.8	6.8	44.5	53.1	37.0
Czech Republic	610	63.0	13.7	6.0	9.9	7.1	0.4	63.0	67.2	58.6
Denmark	492	57.9	15.7	5.3	11.9	7.0	2.1	57.9	65.6	48.6
El Salvador	595	36.7	18.7	9.9	17.2	8.8	8.6	36.7	39.2	33.6
England	592	57.9	18.6	6.7	12.4	4.1	0.3	57.9	59.8	56.3
Georgia	588	30.7	9.1	6.4	25.3	24.0	4.5	30.7	27.9	33.1
Germany	759	59.4	17.2	3.7	9.8	8.0	1.8	59.4	62.4	55.9
Hong Kong SAR	542	73.2	10.3	6.1	7.8	2.6	0.0	73.2	80.2	66.1
Hungary	578	56.3	10.4	10.7	13.6	8.3	0.7	56.3	59.7	52.5
Iran, Islamic Rep. of	553	35.2	11.3	12.8	26.0	12.4	2.3	35.2	38.2	32.1
Italy	636	55.5	10.2	3.5	14.0	16.4	0.5	55.5	55.1	55.9
Japan	643	70.0	13.6	4.2	10.9	0.8	0.5	70.0	70.2	69.8
Kazakhstan	565	52.8	11.7	5.0	21.9	8.5	0.1	52.8	51.5	54.3
Kuwait	544	17.2	10.5	13.7	29.3	27.6	1.7	17.2	21.1	12.8
Latvia	541	64.6	14.9	8.1	9.6	2.2	0.6	64.6	66.9	62.4
Lithuania	565	58.1	14.4	3.9	15.3	7.5	0.8	58.1	61.3	54.9
Morocco	554	16.8	7.9	11.5	26.0	32.9	5.0	16.8	18.7	15.1
Netherlands	478	66.8	12.7	5.4	12.2	2.6	0.3	66.8	67.8	66.0
New Zealand	703	54.3	13.8	8.2	16.4	6.1	1.1	54.3	56.8	51.8
Norway	577	61.7	8.1	6.3	17.4	5.4	1.1	61.7	64.9	59.2
Qatar	985	15.0	8.7	18.4	36.0	19.6	2.3	15.0	16.2	13.7
Russian Federation	632	64.5	11.5	7.1	12.1	4.8	0.0	64.5	63.6	65.3
Scotland	568	52.0	17.9	4.5	16.3	7.6	1.6	52.0	52.9	51.1
Singapore	718	62.7	16.9	6.0	13.6	0.8	0.0	62.7	65.4	60.3
Slovak Republic	703	51.8	11.6	8.9	14.7	11.2	1.8	51.8	49.9	53.5
Slovenia	622	48.4	15.1	10.9	17.8	6.1	1.7	48.4	49.8	46.9
Sweden	665	63.7	13.0	4.7	11.2	7.0	0.4	63.7	64.1	63.2
Tunisia	590	18.9	7.5	16.9	30.4	19.5	6.7	18.9	20.8	17.3
Ukraine	617	47.7	14.9	7.9	18.0	10.7	0.8	47.7	52.4	44.0
United States	1111	51.3	20.7	7.2	17.9	2.3	0.5	51.3	54.3	48.0
Yemen	834	5.3	2.1	1.8	58.6	28.7	3.4	5.3	5.8	5.0
International Avg.	635	48.2	13.2	7.5	18.2	11.0	1.9	48.2	50.2	46.1
Alberta, Canada	565	54.5	21.8	4.6	13.7	4.3	1.1	54.5	58.9	51.1
British Columbia, Canada	592	54.6	18.4	4.8	14.4	7.2	0.7	54.6	60.3	49.0
Dubai, UAE	424	41.1	12.1	15.0	20.7	9.6	1.6	41.1	47.3	35.5
Massachusetts, US	243	66.2	13.7	5.6	12.1	1.2	1.3	66.2	73.0	58.6
Minnesota, US	264	60.7	21.3	3.7	13.4	1.0	0.0	60.7	65.0	57.5
Ontario, Canada	491	52.4	21.0	3.8	14.6	6.8	1.3	52.4	49.9	54.9
Quebec, Canada	558	55.3	20.4	4.0	13.5	6.6	0.2	55.3	58.8	51.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031445A - S01\_02A)  
 Label: White shirt/ results  
 Type: CR Key: -

COUNTRY	N	10	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	606	6.9	0.0	2.5	28.6	54.2	7.8	6.9	8.7	5.2
Armenia	567	15.8	13.3	5.9	10.1	53.5	1.4	29.2	29.8	28.6
Australia	583	53.5	0.0	2.4	25.5	18.1	0.5	53.5	57.3	49.8
Austria	687	28.8	0.0	1.8	24.4	44.5	0.5	28.8	35.2	23.0
Chinese Taipei	587	57.5	0.2	0.9	19.4	22.0	0.0	57.7	64.0	51.9
Colombia	665	22.3	0.1	2.8	31.3	35.5	7.9	22.4	25.2	19.9
Czech Republic	610	31.7	0.5	2.0	24.9	40.4	0.4	32.2	39.5	24.5
Denmark	492	40.4	1.1	2.1	23.8	30.2	2.3	41.5	46.7	35.3
El Salvador	595	9.1	1.4	3.0	35.0	42.3	9.2	10.5	10.3	10.6
England	592	53.0	0.4	4.0	25.1	16.9	0.6	53.3	56.8	50.5
Georgia	588	14.1	2.1	1.5	13.2	63.8	5.5	16.1	16.5	15.8
Germany	759	39.4	0.0	1.6	33.2	23.8	2.0	39.4	41.5	36.8
Hong Kong SAR	542	52.3	0.4	2.0	26.4	18.9	0.0	52.7	56.8	48.5
Hungary	578	51.8	0.0	2.3	24.4	20.7	0.8	51.8	55.1	48.1
Iran, Islamic Rep. of	553	19.8	1.8	3.3	34.2	37.5	3.4	21.6	26.1	17.0
Italy	636	39.8	1.8	10.7	18.2	28.7	0.8	41.6	41.4	41.8
Japan	643	64.1	5.5	7.9	18.4	3.5	0.6	69.6	69.4	69.8
Kazakhstan	565	34.5	0.0	1.8	29.4	34.2	0.1	34.5	34.7	34.3
Kuwait	544	7.1	0.2	1.3	34.5	54.6	2.3	7.3	10.9	3.2
Latvia	541	52.2	1.0	10.2	26.6	9.3	0.7	53.3	59.2	47.5
Lithuania	565	41.9	0.5	7.2	20.5	29.0	0.9	42.4	49.8	35.2
Morocco	555	4.9	0.0	0.6	16.1	72.5	5.8	4.9	2.8	7.2
Netherlands	478	37.8	0.8	5.5	39.5	15.6	0.8	38.6	40.7	37.1
New Zealand	703	44.7	0.1	3.3	29.0	21.5	1.3	44.8	51.1	38.3
Norway	577	23.0	0.0	0.7	25.1	49.6	1.6	23.0	28.6	18.7
Qatar	985	4.4	0.1	0.0	40.1	52.8	2.6	4.5	6.2	2.9
Russian Federation	632	47.0	0.0	0.9	21.7	30.1	0.3	47.0	53.3	41.2
Scotland	568	40.4	0.0	6.1	26.7	24.3	2.5	40.4	41.5	39.1
Singapore	718	56.7	0.2	2.2	30.2	10.7	0.0	56.9	63.6	50.8
Slovak Republic	703	36.6	0.3	2.9	23.6	34.7	1.8	36.9	44.4	30.3
Slovenia	622	43.7	0.4	12.2	28.6	13.3	1.9	44.1	48.6	39.4
Sweden	665	43.3	0.6	3.3	28.6	23.6	0.6	43.9	47.1	40.5
Tunisia	590	8.3	0.1	1.1	42.5	40.0	8.0	8.4	10.0	7.0
Ukraine	617	19.9	5.8	3.9	20.1	48.7	1.6	25.7	29.3	22.8
United States	1111	46.8	0.0	4.2	38.6	9.8	0.5	46.8	50.1	43.1
Yemen	834	1.2	0.1	0.3	37.3	57.2	4.0	1.2	1.8	0.8
International Avg.	635	33.2	1.1	3.4	27.1	33.0	2.3	34.3	37.6	31.0
Alberta, Canada	565	45.7	0.1	7.1	31.1	15.0	1.1	45.8	49.6	42.8
British Columbia, Canada	592	40.3	0.1	6.2	31.4	20.9	1.1	40.4	46.8	34.1
Dubai, UAE	424	27.6	0.5	2.6	28.8	39.0	1.6	28.1	31.4	25.2
Massachusetts, US	243	67.8	0.0	2.8	24.4	3.8	1.3	67.8	67.3	68.4
Minnesota, US	264	50.8	0.2	3.3	40.7	4.9	0.0	51.1	61.9	42.9
Ontario, Canada	491	54.9	0.3	5.6	25.5	11.7	2.0	55.3	58.0	52.6
Quebec, Canada	558	41.5	0.6	5.2	27.2	24.8	0.7	42.1	48.3	35.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031445B - S01\_02B)  
 Label: White shirt/ color under blue light  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	608	24.8	37.8	28.2	9.2	24.8	27.6	22.0
Armenia	566	50.0	20.2	28.0	1.7	50.0	47.4	52.6
Australia	583	82.0	10.7	6.3	0.9	82.0	82.4	81.7
Austria	687	63.2	24.1	11.8	1.0	63.2	63.1	63.2
Chinese Taipei	587	90.2	8.2	1.6	0.0	90.2	92.1	88.4
Colombia	665	53.6	25.5	9.5	11.3	53.6	55.3	52.2
Czech Republic	610	74.6	15.6	8.2	1.6	74.6	77.0	72.1
Denmark	492	77.1	11.2	8.6	3.1	77.1	80.5	73.0
El Salvador	595	41.1	38.5	8.4	11.9	41.1	45.2	36.3
England	592	84.7	10.5	3.9	0.8	84.7	86.5	83.2
Georgia	588	40.6	24.4	28.5	6.5	40.6	39.9	41.2
Germany	759	71.1	15.4	11.1	2.4	71.1	75.4	66.1
Hong Kong SAR	542	88.1	10.0	1.9	0.0	88.1	91.6	84.5
Hungary	578	75.8	16.5	6.3	1.4	75.8	78.3	73.1
Iran, Islamic Rep. of	553	43.3	33.8	18.2	4.6	43.3	47.6	39.0
Italy	636	69.8	14.2	15.0	1.0	69.8	69.5	70.1
Japan	643	92.3	6.5	0.4	0.8	92.3	92.8	92.0
Kazakhstan	565	60.0	31.5	8.5	0.1	60.0	61.9	57.7
Kuwait	544	35.7	33.0	28.7	2.5	35.7	47.0	23.2
Latvia	541	86.1	8.8	4.2	1.0	86.1	89.0	83.2
Lithuania	565	74.8	18.3	5.4	1.5	74.8	79.2	70.5
Morocco	555	30.1	31.1	31.8	7.1	30.1	28.1	31.8
Netherlands	478	85.5	10.6	2.9	1.0	85.5	86.9	84.4
New Zealand	703	74.1	17.0	7.5	1.5	74.1	78.6	69.4
Norway	577	69.1	19.1	8.8	3.0	69.1	77.2	62.8
Qatar	985	22.5	49.3	25.0	3.2	22.5	25.3	19.5
Russian Federation	632	73.1	19.8	6.5	0.7	73.1	77.9	68.7
Scotland	568	77.4	14.7	5.0	2.9	77.4	77.6	77.2
Singapore	718	90.7	8.0	1.3	0.0	90.7	93.1	88.4
Slovak Republic	703	74.8	13.9	9.5	1.8	74.8	79.6	70.6
Slovenia	622	78.3	14.3	4.9	2.5	78.3	79.9	76.6
Sweden	665	82.1	11.2	5.9	0.7	82.1	84.2	79.9
Tunisia	590	40.6	32.1	17.6	9.6	40.6	49.8	33.0
Ukraine	617	61.0	22.6	14.5	1.9	61.0	65.1	57.8
United States	1111	78.8	17.1	2.7	1.5	78.8	82.0	75.1
Yemen	834	12.9	56.3	26.7	4.2	12.9	13.4	12.5
International Avg.	635	64.7	20.9	11.5	2.9	64.7	67.4	62.0
Alberta, Canada	565	79.1	13.5	6.0	1.3	79.1	81.0	77.7
British Columbia, Canada	592	81.7	9.3	7.2	1.8	81.7	86.4	76.9
Dubai, UAE	424	55.9	30.1	11.7	2.3	55.9	59.6	52.5
Massachusetts, US	243	92.2	3.3	1.8	2.7	92.2	95.1	89.0
Minnesota, US	264	84.7	13.0	2.3	0.0	84.7	86.4	83.4
Ontario, Canada	491	79.7	12.0	4.1	4.2	79.7	82.5	76.9
Quebec, Canada	558	78.5	13.6	6.9	1.0	78.5	81.1	75.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031447 - S01\_03)  
 Label: Color of blue shirt under blue light  
 Type: CR Key: -

COUNTRY	N	20	29	10	11	19	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	610	5.2	0.0	12.6	5.8	0.3	19.1	27.2	19.6	10.1	23.9	5.2	5.6	4.9
Armenia	568	11.2	6.6	26.4	2.2	0.7	12.9	12.2	26.0	1.7	47.1	17.8	20.6	15.1
Australia	583	17.0	0.0	9.9	31.0	0.0	21.2	14.3	5.6	0.9	58.0	17.0	16.8	17.2
Austria	687	12.2	0.2	21.7	12.3	0.0	20.1	18.5	13.9	1.1	46.4	12.4	16.5	8.8
Chinese Taipei	587	22.7	0.2	13.0	19.5	0.0	33.2	8.3	3.1	0.0	55.4	22.9	26.1	20.0
Colombia	665	7.6	0.0	14.9	15.1	0.2	21.5	19.9	8.7	12.1	37.8	7.6	5.2	9.8
Czech Republic	612	10.0	0.0	22.6	15.9	0.0	24.4	14.6	10.4	2.0	48.5	10.0	13.4	6.5
Denmark	491	16.9	0.0	21.3	12.7	0.0	17.8	18.0	10.2	3.1	50.8	16.9	19.9	13.2
El Salvador	595	3.5	0.2	15.4	10.4	0.4	22.6	26.3	9.2	11.9	30.0	3.8	4.3	3.0
England	592	16.5	0.0	8.1	26.2	0.0	25.7	16.7	5.8	1.0	50.7	16.5	19.4	14.1
Georgia	588	3.3	0.2	18.7	3.2	0.8	26.6	16.5	24.0	6.6	26.2	3.6	2.1	4.8
Germany	759	13.6	0.0	14.8	19.5	0.0	18.8	19.6	11.1	2.6	47.8	13.6	16.1	10.7
Hong Kong SAR	542	21.3	0.0	12.2	18.2	0.0	35.1	10.3	2.7	0.3	51.6	21.3	24.3	18.2
Hungary	578	20.7	0.0	11.7	19.0	0.0	25.9	15.0	6.1	1.5	51.4	20.7	21.9	19.3
Iran, Islamic Rep. of	552	6.7	0.1	10.7	10.2	0.4	23.0	27.6	15.3	5.9	28.1	6.9	7.2	6.5
Italy	636	16.6	1.7	13.4	12.1	0.9	22.0	13.5	18.7	1.2	44.6	18.3	16.4	20.2
Japan	643	10.8	0.0	3.5	31.2	0.0	30.8	21.1	1.7	0.9	45.5	10.8	11.5	10.3
Kazakhstan	566	14.8	0.0	22.3	17.9	0.0	23.8	15.4	5.8	0.1	55.0	14.8	20.7	8.1
Kuwait	544	3.4	0.4	22.3	6.8	0.4	16.9	27.0	19.8	2.9	33.4	3.8	5.9	1.6
Latvia	541	18.6	0.0	11.7	20.0	0.0	26.9	17.0	4.6	1.2	50.4	18.6	20.5	16.7
Lithuania	565	14.5	0.3	13.2	13.2	1.3	35.2	15.2	5.6	1.5	42.5	14.8	15.6	14.0
Morocco	555	1.0	0.0	20.4	4.8	0.1	17.1	18.1	30.2	8.2	26.4	1.0	1.1	0.8
Netherlands	478	18.5	0.1	14.6	38.0	0.3	11.7	14.9	0.9	1.0	71.5	18.6	20.9	16.8
New Zealand	703	17.6	0.1	8.4	27.4	0.0	22.5	16.1	6.3	1.6	53.6	17.8	21.1	14.3
Norway	577	5.1	0.0	28.9	12.0	0.2	20.6	20.9	9.0	3.2	46.2	5.1	6.8	3.8
Qatar	985	1.9	0.1	24.3	5.8	0.0	18.5	29.1	17.1	3.3	32.1	2.0	3.4	0.6
Russian Federation	632	13.8	0.0	19.3	19.9	3.1	21.6	13.8	7.3	1.2	56.1	13.8	15.4	12.3
Scotland	568	10.0	0.0	13.7	21.4	0.0	32.0	13.5	6.5	3.0	45.1	10.0	11.4	8.5
Singapore	718	30.0	0.3	5.0	26.8	0.1	21.9	15.0	0.9	0.0	62.2	30.3	36.1	25.1
Slovak Republic	703	15.4	0.2	21.3	10.6	0.1	23.8	16.3	10.5	1.9	47.5	15.6	16.8	14.5
Slovenia	622	14.5	0.0	11.4	26.7	0.0	22.9	17.4	4.6	2.5	52.6	14.5	18.6	10.2
Sweden	665	15.6	0.4	13.0	20.6	0.2	24.7	17.8	6.9	0.9	49.7	15.9	18.1	13.6
Tunisia	590	4.9	0.3	15.4	7.4	0.0	13.8	33.4	15.0	9.7	28.1	5.2	6.9	3.8
Ukraine	617	5.5	1.5	21.2	9.3	6.3	27.5	17.2	9.7	1.9	43.8	7.0	9.5	5.1
United States	1111	20.5	0.0	2.7	27.5	0.1	26.4	19.5	1.7	1.6	50.8	20.5	23.1	17.7
Yemen	832	0.8	0.0	19.1	1.3	0.0	2.5	47.2	25.0	4.2	21.1	0.8	1.8	0.0
International Avg.	635	12.3	0.4	15.5	16.2	0.4	22.5	19.0	10.5	3.1	44.8	12.6	14.5	10.8
Alberta, Canada	565	25.8	0.0	9.8	18.7	0.0	24.2	15.6	3.9	2.0	54.3	25.8	30.9	21.7
British Columbia, Canada	592	19.8	0.0	12.1	19.5	0.0	27.3	11.2	7.9	2.3	51.3	19.8	25.2	14.4
Dubai, UAE	424	12.1	0.0	16.8	13.5	0.4	19.4	22.8	12.4	2.6	42.8	12.1	11.5	12.6
Massachusetts, US	243	37.9	0.0	0.7	25.7	0.0	12.6	16.4	4.0	2.7	64.3	37.9	43.4	31.8
Minnesota, US	264	25.5	0.0	2.1	29.9	0.0	23.0	16.1	3.2	0.3	57.5	25.5	26.3	25.0
Ontario, Canada	491	31.2	0.0	6.3	19.6	0.0	21.2	12.6	4.5	4.7	57.0	31.2	38.3	24.2
Quebec, Canada	558	19.4	0.0	12.8	21.5	0.2	23.6	14.4	6.9	1.1	54.0	19.4	25.7	12.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031193 - S01\_04)  
 Label: Animal with teeth most like humans  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	569	53.0	9.6	7.4	53.0	15.0	3.8	11.3	48.8	57.0
Armenia	567	69.9	7.4	5.0	69.9	11.4	4.6	1.7	74.2	65.9
Australia	583	64.0	13.0	6.5	64.0	13.0	1.7	1.9	60.1	67.9
Austria	687	69.8	8.5	5.6	69.8	13.1	1.9	1.1	75.0	65.1
Chinese Taipei	587	70.8	6.0	3.0	70.8	19.7	0.5	0.0	67.8	73.6
Colombia	665	45.8	6.7	9.8	45.8	20.1	4.6	13.1	40.2	50.7
Czech Republic	612	69.7	5.6	2.0	69.7	17.9	2.3	2.5	67.3	72.1
Denmark	492	74.8	10.7	0.4	74.8	7.9	2.7	3.4	74.6	75.1
El Salvador	595	39.8	13.9	7.5	39.8	22.3	3.8	12.7	35.4	45.0
England	592	59.9	12.7	6.7	59.9	17.5	1.8	1.3	61.9	58.3
Georgia	588	64.1	7.4	6.3	64.1	10.7	4.9	6.6	61.5	66.4
Germany	759	72.2	8.7	3.6	72.2	8.9	3.6	3.0	68.2	76.8
Hong Kong SAR	542	63.8	6.7	4.9	63.8	23.4	0.6	0.6	59.0	68.7
Hungary	578	71.8	7.5	1.2	71.8	14.6	3.1	1.7	66.4	77.9
Iran, Islamic Rep. of	551	42.1	24.6	13.3	42.1	10.7	2.6	6.8	39.3	44.9
Italy	636	72.4	7.5	2.3	72.4	14.3	1.5	2.0	69.5	75.7
Japan	643	85.3	4.3	1.5	85.3	7.2	0.6	1.2	83.4	86.9
Kazakhstan	566	84.5	4.9	2.0	84.5	8.4	0.1	0.1	82.9	86.3
Kuwait	544	37.5	34.5	9.1	37.5	7.4	8.0	3.4	39.7	35.1
Latvia	541	72.8	10.4	4.3	72.8	10.4	0.8	1.3	70.1	75.4
Lithuania	565	73.7	8.0	0.7	73.7	13.3	2.4	2.0	72.7	74.7
Morocco	525	57.4	6.6	7.6	57.4	14.8	4.5	9.2	54.0	60.6
Netherlands	478	71.5	9.3	3.6	71.5	13.8	0.8	1.0	65.1	76.4
New Zealand	703	61.4	12.5	9.8	61.4	12.1	2.4	1.8	60.7	62.2
Norway	577	68.8	11.4	2.3	68.8	10.1	3.4	4.0	67.4	69.8
Qatar	985	35.7	25.9	18.7	35.7	11.8	4.1	3.8	36.2	35.2
Russian Federation	632	76.2	5.4	4.7	76.2	10.7	1.5	1.4	75.5	76.9
Scotland	568	52.0	14.0	4.7	52.0	20.8	4.9	3.6	47.7	56.6
Singapore	718	69.2	10.4	6.7	69.2	12.7	0.9	0.0	63.6	74.4
Slovak Republic	703	72.6	9.1	2.6	72.6	11.7	1.9	2.1	67.9	76.8
Slovenia	622	66.7	10.3	2.9	66.7	14.4	2.8	2.9	68.2	65.1
Sweden	665	78.0	10.1	0.8	78.0	9.1	1.1	1.0	77.1	79.1
Tunisia	590	29.2	15.8	11.9	29.2	16.2	16.6	10.2	27.5	30.7
Ukraine	617	62.2	9.9	7.2	62.2	17.7	1.0	2.0	56.1	67.0
United States	1111	47.3	21.1	4.6	47.3	22.9	2.3	1.9	43.8	51.2
Yemen	833	39.3	17.8	14.8	39.3	14.5	9.3	4.3	37.0	41.0
International Avg.	633	62.4	11.3	5.7	62.4	13.9	3.1	3.5	60.2	64.5
Alberta, Canada	565	49.4	18.7	5.2	49.4	20.6	3.9	2.3	39.4	57.2
British Columbia, Canada	592	52.2	16.7	4.1	52.2	21.2	2.8	3.0	51.9	52.4
Dubai, UAE	424	53.0	17.2	10.2	53.0	10.8	6.1	2.7	55.2	51.0
Massachusetts, US	243	57.2	17.8	1.6	57.2	16.9	1.9	4.6	55.9	58.7
Minnesota, US	264	50.3	19.6	2.0	50.3	23.6	3.2	1.3	46.5	53.2
Ontario, Canada	491	51.4	18.5	3.8	51.4	18.1	3.0	5.1	44.6	58.2
Quebec, Canada	558	62.6	12.9	4.9	62.6	17.2	0.8	1.5	58.7	67.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031264 - S01\_05)  
 Label: Curly hair or straight hair  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	40.3	40.3	16.0	15.2	8.8	7.5	12.2	47.4	33.4
Armenia	564	65.8	65.8	7.2	11.5	6.4	7.3	1.8	74.1	58.1
Australia	583	73.9	73.9	13.3	4.0	5.0	1.8	2.0	74.6	73.3
Austria	687	76.5	76.5	8.0	6.7	5.4	1.8	1.6	83.9	70.0
Chinese Taipei	587	89.5	89.5	4.7	4.6	0.5	0.5	0.2	90.9	88.2
Colombia	665	61.4	61.4	6.8	7.5	4.7	4.5	15.1	62.8	60.2
Czech Republic	612	76.1	76.1	3.2	5.5	9.1	2.5	3.5	79.3	72.7
Denmark	490	73.1	73.1	9.2	4.6	5.7	3.0	4.4	77.7	67.6
El Salvador	595	53.4	53.4	9.4	13.3	4.8	5.3	13.8	55.9	50.3
England	592	75.8	75.8	11.8	5.6	3.9	1.5	1.4	80.2	72.2
Georgia	588	54.1	54.1	13.5	11.6	7.0	5.8	8.0	56.3	52.3
Germany	759	71.4	71.4	7.9	6.4	5.2	4.2	4.9	70.9	72.0
Hong Kong SAR	542	78.5	78.5	5.8	8.6	6.2	0.3	0.6	75.9	81.3
Hungary	578	78.8	78.8	5.7	4.5	5.0	3.6	2.3	81.9	75.3
Iran, Islamic Rep. of	551	51.3	51.3	7.1	15.5	13.3	5.0	7.8	54.0	48.6
Italy	636	76.6	76.6	5.9	6.1	7.3	1.4	2.8	77.7	75.4
Japan	643	63.7	63.7	10.0	16.4	8.2	0.4	1.3	67.1	60.9
Kazakhstan	566	92.0	92.0	1.4	3.3	3.0	0.2	0.1	93.3	90.6
Kuwait	544	40.3	40.3	18.7	15.9	10.7	10.6	3.9	46.3	33.6
Latvia	541	77.9	77.9	6.8	5.8	7.1	1.2	1.3	78.5	77.2
Lithuania	565	85.1	85.1	2.1	2.9	4.6	3.1	2.3	88.5	81.8
Morocco	527	36.7	36.7	17.2	20.8	9.6	5.9	9.8	36.5	36.8
Netherlands	478	75.0	75.0	6.1	9.4	6.8	1.4	1.3	79.4	71.8
New Zealand	703	69.3	69.3	12.1	8.1	4.9	3.0	2.6	72.4	66.0
Norway	577	64.9	64.9	10.4	8.5	7.9	2.7	5.7	70.6	60.5
Qatar	985	32.3	32.3	25.8	20.3	10.8	6.3	4.5	33.2	31.3
Russian Federation	632	80.4	80.4	2.7	10.4	3.9	0.9	1.6	84.6	76.4
Scotland	568	65.7	65.7	12.4	8.5	5.7	2.4	5.3	68.0	63.3
Singapore	718	91.2	91.2	2.8	2.6	2.6	0.7	0.2	94.7	88.0
Slovak Republic	703	76.7	76.7	3.0	7.8	7.3	2.6	2.6	81.4	72.7
Slovenia	622	68.2	68.2	9.5	10.6	3.9	3.0	4.8	72.6	63.5
Sweden	665	85.6	85.6	4.9	1.7	4.9	1.5	1.5	89.1	81.8
Tunisia	590	28.6	28.6	15.2	16.6	11.5	17.1	11.0	32.7	25.3
Ukraine	617	80.6	80.6	3.7	6.8	5.2	1.6	2.1	82.3	79.2
United States	1111	80.8	80.8	6.5	4.5	3.3	2.1	2.7	86.3	74.6
Yemen	834	17.6	17.6	23.8	25.8	17.1	11.0	4.6	20.6	15.3
International Avg.	633	66.9	66.9	9.2	9.4	6.6	3.7	4.2	70.0	63.9
Alberta, Canada	565	75.1	75.1	5.6	9.2	4.0	2.3	3.8	78.9	72.1
British Columbia, Canada	592	76.9	76.9	6.2	4.5	5.7	3.1	3.6	85.0	68.9
Dubai, UAE	424	62.2	62.2	13.0	9.1	6.7	4.5	4.5	66.3	58.6
Massachusetts, US	243	85.5	85.5	5.4	1.2	1.6	0.9	5.3	91.6	78.9
Minnesota, US	264	84.1	84.1	5.5	2.8	2.8	2.1	2.7	82.8	85.1
Ontario, Canada	491	74.6	74.6	9.3	3.4	3.3	1.9	7.6	73.6	75.5
Quebec, Canada	558	77.8	77.8	6.8	5.0	7.2	1.1	2.0	76.5	79.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Applying (S031347 - S01\_06)  
 Label: True statement about food chain  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	539	38.6	17.5	15.8	38.6	7.0	7.1	14.1	35.0	42.0
Armenia	564	72.4	8.4	5.0	72.4	3.7	8.0	2.4	72.0	72.9
Australia	583	81.1	6.3	3.0	81.1	5.4	1.7	2.5	81.7	80.5
Austria	687	87.0	5.6	1.4	87.0	1.5	2.7	1.8	85.6	88.4
Chinese Taipei	587	82.1	9.5	3.4	82.1	4.5	0.3	0.2	75.5	88.2
Colombia	665	55.5	10.8	7.6	55.5	5.7	4.6	15.8	49.8	60.6
Czech Republic	612	75.5	13.1	1.7	75.5	2.7	3.3	3.7	76.7	74.2
Denmark	490	86.9	3.6	1.4	86.9	1.2	2.1	4.7	88.8	84.7
El Salvador	595	58.4	9.6	8.1	58.4	5.7	3.1	15.1	55.5	61.9
England	592	71.7	14.2	5.8	71.7	5.8	0.8	1.7	67.5	75.2
Georgia	588	51.0	21.4	4.6	51.0	9.9	4.7	8.3	46.6	54.7
Germany	759	80.0	6.2	2.0	80.0	1.7	4.4	5.7	77.3	83.2
Hong Kong SAR	542	63.5	24.4	5.4	63.5	5.1	0.9	0.6	59.4	67.8
Hungary	578	78.9	9.5	1.8	78.9	2.9	4.1	2.8	76.1	82.1
Iran, Islamic Rep. of	551	56.9	13.1	8.7	56.9	8.5	4.0	8.8	55.8	57.9
Italy	629	79.2	5.6	4.7	79.2	6.9	0.8	2.8	77.3	81.2
Japan	643	79.4	8.7	2.4	79.4	3.5	4.6	1.3	73.5	84.2
Kazakhstan	566	86.1	7.2	1.2	86.1	5.0	0.4	0.1	86.4	85.8
Kuwait	544	42.0	14.7	17.7	42.0	14.0	7.0	4.7	42.5	41.3
Latvia	541	88.8	4.4	1.3	88.8	1.7	2.4	1.3	89.4	88.2
Lithuania	565	82.9	6.0	2.1	82.9	4.0	2.7	2.3	80.6	85.2
Morocco	510	45.6	15.0	15.6	45.6	6.7	5.7	11.4	39.8	51.7
Netherlands	478	80.8	10.0	2.9	80.8	3.2	1.5	1.7	74.0	85.9
New Zealand	703	75.8	8.1	4.0	75.8	5.9	2.9	3.3	73.2	78.6
Norway	577	73.2	9.3	3.3	73.2	4.9	3.3	5.9	69.7	75.9
Qatar	985	39.8	21.3	19.1	39.8	12.0	3.1	4.7	36.8	43.0
Russian Federation	632	83.2	9.2	0.4	83.2	2.5	2.9	1.8	77.9	88.1
Scotland	568	61.9	17.1	5.7	61.9	5.5	4.1	5.7	55.7	68.5
Singapore	718	86.1	6.6	1.7	86.1	4.7	0.7	0.2	84.2	87.9
Slovak Republic	703	73.8	12.8	3.0	73.8	4.2	3.4	2.8	71.0	76.4
Slovenia	622	73.6	9.8	4.8	73.6	3.7	2.5	5.6	72.1	75.2
Sweden	665	76.1	12.0	4.1	76.1	3.4	2.8	1.8	78.1	74.0
Tunisia	590	46.3	9.6	8.9	46.3	6.5	17.5	11.3	42.7	49.3
Ukraine	617	77.8	8.1	2.0	77.8	5.9	3.9	2.2	73.7	81.1
United States	1111	81.1	8.3	3.7	81.1	2.2	1.7	3.0	80.2	82.0
Yemen	834	34.0	14.3	22.7	34.0	15.0	8.7	5.3	30.6	36.6
International Avg.	631	69.6	10.9	5.8	69.6	5.3	3.7	4.6	67.0	72.1
Alberta, Canada	565	75.1	9.8	5.2	75.1	2.4	3.7	3.8	75.7	74.6
British Columbia, Canada	592	69.6	13.1	6.4	69.6	4.5	2.7	3.7	70.0	69.1
Dubai, UAE	424	57.2	15.2	14.8	57.2	2.3	5.8	4.6	54.8	59.5
Massachusetts, US	243	82.9	7.1	2.3	82.9	1.6	0.9	5.3	83.2	82.5
Minnesota, US	264	82.9	8.0	2.2	82.9	1.8	2.1	3.0	77.5	86.9
Ontario, Canada	491	66.3	14.4	4.5	66.3	3.6	2.5	8.7	55.9	76.4
Quebec, Canada	558	72.4	11.9	3.8	72.4	5.2	4.7	2.0	71.5	73.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031346 - S01\_07)  
 Label: Nutrients from fruit  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	608	2.4	4.0	2.1	0.4	28.8	29.6	9.9	8.6	14.2	8.9	12.2	5.7
Armenia	563	23.2	12.7	8.2	1.8	20.5	17.9	2.0	10.0	3.7	46.0	51.5	40.7
Australia	583	23.2	3.6	0.2	0.0	53.8	13.9	0.9	1.6	2.8	27.1	30.1	24.0
Austria	687	19.7	6.2	0.3	0.0	52.0	17.8	0.0	2.1	1.9	26.2	32.6	20.4
Chinese Taipei	587	6.8	7.5	0.9	3.7	52.3	26.4	1.1	1.2	0.2	18.9	20.8	17.1
Colombia	665	4.3	1.9	0.4	0.0	39.5	31.3	0.6	4.4	17.5	6.7	8.1	5.4
Czech Republic	612	13.8	3.6	1.1	0.9	34.9	38.5	1.0	2.0	4.2	19.4	23.4	15.1
Denmark	489	13.3	11.5	1.4	0.0	47.3	16.2	1.6	3.8	5.0	26.1	29.1	22.6
El Salvador	595	2.5	2.5	0.5	0.0	44.3	28.2	1.8	4.1	16.2	5.5	7.8	2.7
England	592	16.5	14.5	1.1	0.0	48.7	14.5	0.9	1.9	1.8	32.2	37.0	28.3
Georgia	588	2.0	2.8	0.2	2.3	53.2	18.5	3.4	7.9	9.7	7.3	7.9	6.7
Germany	759	22.7	6.7	0.6	0.0	44.6	16.2	0.4	2.7	6.1	30.1	33.6	26.0
Hong Kong SAR	542	5.0	4.7	0.2	0.6	57.4	29.5	0.8	0.9	0.8	10.5	12.0	9.0
Hungary	578	19.1	5.1	0.4	0.4	45.9	22.8	0.7	2.5	3.1	25.0	29.5	20.0
Iran, Islamic Rep. of	551	2.8	4.1	1.4	0.3	41.2	37.7	0.3	2.5	9.6	8.6	11.2	6.0
Italy	636	6.3	5.0	0.6	0.8	42.2	36.1	0.7	5.0	3.3	12.7	12.3	13.1
Japan	643	20.6	9.3	0.9	0.0	54.9	11.0	1.4	0.6	1.4	30.8	38.4	24.6
Kazakhstan	566	11.9	6.5	0.6	0.0	44.4	35.3	0.1	0.9	0.3	19.0	22.3	15.3
Kuwait	544	1.9	1.5	2.3	0.0	36.3	41.9	1.9	8.8	5.4	5.7	8.9	2.1
Latvia	541	12.8	9.2	10.3	14.3	27.7	21.7	1.0	1.4	1.6	46.6	53.4	40.0
Lithuania	565	11.7	6.1	3.0	0.0	51.3	22.2	1.1	2.2	2.4	20.7	22.9	18.6
Morocco	554	1.3	2.5	0.0	1.3	37.7	31.1	2.6	10.8	12.7	5.1	4.0	6.4
Netherlands	478	28.3	5.4	0.3	0.0	41.4	20.8	1.1	1.1	1.7	34.0	42.4	27.6
New Zealand	703	16.5	5.2	0.4	0.0	50.3	21.1	0.8	2.1	3.6	22.1	24.0	20.2
Norway	577	13.2	4.6	1.1	0.0	51.6	19.4	1.5	2.0	6.6	19.0	19.7	18.5
Qatar	985	0.5	0.7	0.1	0.0	38.2	49.8	0.6	5.4	4.8	1.3	1.8	0.8
Russian Federation	632	12.8	4.8	0.0	0.0	60.9	17.9	0.2	1.0	2.3	17.6	19.6	15.7
Scotland	568	13.5	5.6	0.3	0.0	56.1	14.4	0.4	3.5	6.2	19.4	22.0	16.6
Singapore	718	21.1	7.9	1.0	0.4	52.8	15.4	0.2	0.9	0.2	30.5	35.9	25.5
Slovak Republic	703	10.7	8.2	0.4	0.2	42.3	31.2	0.4	3.5	3.2	19.4	20.7	18.3
Slovenia	622	13.4	5.2	0.1	0.0	60.8	12.7	0.5	1.0	6.3	18.7	22.4	14.8
Sweden	665	11.6	7.0	0.6	0.0	63.4	12.5	1.0	1.7	2.2	19.2	23.4	14.8
Tunisia	590	3.3	3.4	1.8	0.3	37.7	31.8	4.8	4.8	12.0	8.9	9.7	8.1
Ukraine	617	3.7	3.0	0.0	1.4	62.3	23.3	1.1	1.9	3.2	8.1	9.5	6.9
United States	1111	22.5	3.2	0.9	0.1	47.1	20.5	0.0	2.5	3.2	26.6	30.4	22.4
Yemen	833	1.2	0.4	0.0	0.1	31.4	33.3	12.5	15.3	6.0	1.7	1.7	1.7
International Avg.	635	11.6	5.4	1.2	0.8	46.0	24.5	1.6	3.7	5.2	19.0	22.0	16.2
Alberta, Canada	565	24.1	6.7	0.9	0.2	44.2	16.5	0.6	2.6	4.3	31.8	39.8	25.6
British Columbia, Canada	592	26.5	7.1	1.2	0.5	47.2	10.5	0.2	2.9	4.0	35.3	42.8	27.8
Dubai, UAE	424	7.5	7.5	1.9	0.6	41.1	29.2	2.1	5.4	4.8	17.5	19.0	16.1
Massachusetts, US	243	38.8	7.7	1.4	0.4	33.7	8.9	0.0	3.7	5.3	48.4	51.9	44.6
Minnesota, US	264	23.2	4.7	1.2	0.5	49.6	12.4	0.1	5.0	3.3	29.6	33.4	26.8
Ontario, Canada	491	25.6	7.8	1.4	0.0	37.6	15.4	0.0	2.2	10.0	34.8	37.8	31.9
Quebec, Canada	558	30.6	7.5	3.4	0.4	33.7	18.3	1.0	1.7	3.4	41.9	46.0	37.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S031081 - S01\_08)  
 Label: Ribbon tied to pole  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	608	16.0	29.0	28.7	11.1	15.1	16.0	19.0	13.1
Armenia	568	43.6	8.8	23.0	17.8	6.9	43.6	41.6	45.4
Australia	583	79.9	10.1	4.8	2.1	3.1	79.9	77.9	82.0
Austria	687	62.5	25.8	7.1	2.3	2.3	62.5	62.6	62.5
Chinese Taipei	587	90.1	5.7	3.2	0.5	0.5	90.1	89.7	90.5
Colombia	665	37.5	4.9	33.8	5.3	18.6	37.5	37.4	37.6
Czech Republic	612	64.1	22.3	6.3	3.0	4.2	64.1	64.9	63.3
Denmark	491	67.6	18.3	6.2	2.8	5.1	67.6	68.9	65.9
El Salvador	595	23.3	6.6	47.1	5.8	17.2	23.3	24.6	21.7
England	592	78.4	11.7	6.3	1.8	1.8	78.4	82.0	75.4
Georgia	588	49.4	4.9	26.6	6.9	12.2	49.4	46.6	51.8
Germany	759	56.7	28.5	5.9	2.3	6.5	56.7	59.7	53.2
Hong Kong SAR	542	81.6	14.2	2.9	0.5	0.8	81.6	81.0	82.3
Hungary	578	68.1	17.2	9.3	1.3	4.1	68.1	73.7	61.8
Iran, Islamic Rep. of	552	29.3	16.7	34.6	8.9	10.4	29.3	32.1	26.6
Italy	636	69.8	14.4	6.9	3.6	5.3	69.8	72.7	66.7
Japan	643	88.1	5.5	3.8	1.0	1.7	88.1	90.1	86.5
Kazakhstan	566	74.1	6.7	17.1	1.5	0.6	74.1	79.0	68.4
Kuwait	544	23.6	10.4	48.7	10.9	6.5	23.6	26.8	19.9
Latvia	541	76.5	17.5	3.3	0.9	1.8	76.5	78.1	74.9
Lithuania	565	67.1	20.7	8.1	1.2	2.9	67.1	70.6	63.6
Morocco	556	11.6	18.1	37.7	16.3	16.2	11.6	13.0	10.3
Netherlands	478	74.6	16.2	6.5	0.6	2.1	74.6	76.8	72.9
New Zealand	703	70.1	14.9	9.4	1.7	3.9	70.1	70.6	69.5
Norway	577	53.3	26.0	10.3	3.1	7.3	53.3	58.2	49.6
Qatar	985	20.0	12.4	52.3	9.9	5.4	20.0	22.7	17.2
Russian Federation	632	75.1	10.1	8.5	3.5	2.7	75.1	76.6	73.8
Scotland	568	76.5	8.7	7.0	0.9	6.9	76.5	75.7	77.4
Singapore	718	88.4	6.0	5.2	0.0	0.5	88.4	91.6	85.5
Slovak Republic	703	71.9	12.4	9.2	2.0	4.5	71.9	74.5	69.7
Slovenia	622	68.2	17.5	6.2	1.5	6.7	68.2	71.7	64.4
Sweden	665	72.3	17.5	4.7	3.0	2.5	72.3	72.2	72.4
Tunisia	590	29.4	9.2	36.9	9.9	14.6	29.4	32.3	27.1
Ukraine	617	52.9	20.8	19.8	2.7	3.8	52.9	53.5	52.3
United States	1111	75.0	12.8	6.6	2.0	3.6	75.0	78.0	71.6
Yemen	834	15.0	1.8	60.1	12.6	10.5	15.0	16.4	13.9
International Avg.	635	58.4	14.0	17.1	4.5	6.1	58.4	60.1	56.7
Alberta, Canada	565	74.7	12.1	6.1	2.8	4.3	74.7	75.2	74.4
British Columbia, Canada	592	69.6	15.2	8.5	2.5	4.2	69.6	74.2	65.0
Dubai, UAE	424	58.3	18.0	13.9	4.3	5.5	58.3	57.1	59.3
Massachusetts, US	243	76.4	11.1	4.2	2.5	5.9	76.4	76.8	76.0
Minnesota, US	264	70.4	13.2	8.7	3.1	4.6	70.4	72.3	69.1
Ontario, Canada	491	66.8	14.9	3.4	4.2	10.7	66.8	67.6	66.0
Quebec, Canada	558	76.5	12.7	4.7	2.4	3.7	76.5	80.4	72.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041007 - S02\_01)  
 Label: Living and nonliving things  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	529	47.5	21.2	47.5	12.1	14.6	3.8	0.8	47.2	47.8
Armenia	562	65.0	9.6	65.0	7.6	11.5	5.5	0.9	66.6	63.5
Australia	591	66.8	8.3	66.8	16.1	5.8	3.0	0.0	70.5	63.1
Austria	697	60.6	18.7	60.6	8.4	8.1	4.1	0.1	60.3	60.9
Chinese Taipei	588	85.6	3.5	85.6	5.1	5.4	0.4	0.0	88.5	82.7
Colombia	681	55.6	9.0	55.6	15.8	15.2	3.7	0.7	61.0	50.6
Czech Republic	611	78.5	6.1	78.5	5.9	5.9	3.2	0.4	78.0	79.1
Denmark	511	39.5	8.9	39.5	23.6	26.4	1.4	0.1	39.2	39.8
El Salvador	599	48.9	13.0	48.9	18.4	16.8	2.4	0.5	46.2	51.9
England	592	72.7	8.0	72.7	12.3	6.0	0.8	0.2	70.7	74.4
Georgia	598	55.9	9.0	55.9	16.6	15.2	2.8	0.4	50.1	61.2
Germany	753	46.6	9.8	46.6	14.3	24.9	4.0	0.4	44.4	49.1
Hong Kong SAR	544	86.7	3.1	86.7	5.7	4.1	0.4	0.0	85.9	87.4
Hungary	579	59.6	6.9	59.6	19.9	7.7	5.9	0.0	52.7	66.5
Iran, Islamic Rep. of	553	52.1	9.3	52.1	19.0	14.4	4.8	0.4	49.1	55.1
Italy	635	82.1	2.3	82.1	10.1	4.0	1.5	0.0	77.9	86.2
Japan	647	89.3	2.0	89.3	4.7	2.3	1.7	0.0	89.8	88.8
Kazakhstan	573	87.5	4.4	87.5	5.7	2.4	0.0	0.0	83.7	91.1
Kuwait	537	42.9	15.1	42.9	15.5	19.3	5.8	1.5	44.3	41.5
Latvia	547	58.1	10.1	58.1	18.0	12.6	0.9	0.3	53.6	62.3
Lithuania	568	54.1	4.1	54.1	23.8	14.8	3.0	0.1	46.5	60.6
Morocco	502	37.8	17.8	37.8	20.5	16.4	3.9	3.5	43.3	32.8
Netherlands	485	56.5	6.8	56.5	19.5	15.8	1.4	0.0	51.2	61.3
New Zealand	700	61.1	10.8	61.1	14.2	10.3	2.8	0.7	60.1	62.2
Norway	597	43.0	6.6	43.0	27.0	20.4	2.5	0.5	42.3	43.7
Qatar	1004	39.7	17.2	39.7	16.3	22.2	3.7	0.8	37.2	42.4
Russian Federation	630	80.5	3.3	80.5	9.2	5.8	1.1	0.1	76.6	84.8
Scotland	549	68.6	9.5	68.6	11.8	7.9	2.0	0.2	64.3	73.2
Singapore	723	91.2	1.4	91.2	6.3	1.0	0.0	0.0	90.0	92.4
Slovak Republic	702	79.2	5.0	79.2	7.9	5.4	2.3	0.2	76.0	81.9
Slovenia	607	62.0	8.9	62.0	12.5	14.8	1.6	0.3	62.1	61.9
Sweden	673	33.7	5.8	33.7	39.1	19.6	1.8	0.0	30.9	36.6
Tunisia	584	35.3	18.0	35.3	14.2	13.8	16.7	2.1	38.8	32.5
Ukraine	617	66.7	8.7	66.7	12.8	9.2	2.6	0.0	61.7	70.8
United States	1111	73.0	5.3	73.0	13.1	7.1	1.1	0.4	69.5	77.0
Yemen	827	36.8	14.7	36.8	21.8	18.4	7.1	1.2	43.2	31.9
International Avg.	634	61.1	8.9	61.1	14.6	11.8	3.0	0.5	59.8	62.5
Alberta, Canada	577	70.5	4.6	70.5	14.9	7.3	2.2	0.6	65.2	75.3
British Columbia, Canada	575	69.2	6.6	69.2	16.2	5.7	1.7	0.5	68.2	70.3
Dubai, UAE	419	58.7	9.4	58.7	14.3	5.4	9.5	2.8	54.2	62.6
Massachusetts, US	239	83.7	3.2	83.7	10.5	2.7	0.0	0.0	83.3	84.1
Minnesota, US	267	66.7	7.0	66.7	18.1	6.3	1.9	0.0	66.8	66.6
Ontario, Canada	493	64.7	8.4	64.7	17.0	7.3	1.4	1.1	63.9	65.4
Quebec, Canada	543	57.1	5.2	57.1	24.8	9.1	3.8	0.1	53.9	60.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041164 - S02\_02)  
 Label: Classification of six-legged animal  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	15.6	50.9	15.6	14.4	10.8	6.1	2.1	15.5	15.7
Armenia	566	31.1	49.7	31.1	3.9	9.6	4.9	0.9	30.6	31.5
Australia	591	64.0	23.9	64.0	4.4	5.8	1.8	0.1	61.3	66.7
Austria	697	44.1	49.2	44.1	2.8	2.7	1.1	0.1	37.0	50.4
Chinese Taipei	588	83.4	7.9	83.4	6.9	1.4	0.4	0.0	80.8	86.1
Colombia	681	21.9	60.2	21.9	7.6	6.7	2.6	1.1	20.5	23.2
Czech Republic	611	37.3	52.3	37.3	2.7	5.2	2.1	0.4	35.8	38.9
Denmark	511	46.0	49.0	46.0	3.4	0.9	0.2	0.4	45.3	46.7
El Salvador	599	20.8	61.3	20.8	8.3	7.2	1.7	0.6	18.6	23.3
England	592	53.1	32.4	53.1	4.9	8.0	1.4	0.2	51.8	54.3
Georgia	598	14.9	64.0	14.9	13.6	5.4	1.7	0.4	13.5	16.1
Germany	753	47.2	43.5	47.2	5.2	2.2	1.2	0.7	43.0	51.7
Hong Kong SAR	544	41.0	43.1	41.0	6.9	8.1	0.9	0.0	38.6	43.3
Hungary	579	52.9	40.0	52.9	3.5	1.9	1.7	0.0	52.1	53.8
Iran, Islamic Rep. of	553	43.7	40.9	43.7	6.9	3.9	3.9	0.6	45.1	42.2
Italy	639	50.7	42.8	50.7	2.9	3.1	0.3	0.1	47.8	53.7
Japan	647	56.9	34.0	56.9	4.5	2.0	2.7	0.0	53.9	59.7
Kazakhstan	573	26.1	63.8	26.1	6.3	3.5	0.3	0.0	27.6	24.5
Kuwait	537	34.4	44.0	34.4	8.3	5.3	6.0	2.0	36.0	32.8
Latvia	548	48.3	43.9	48.3	5.3	0.6	1.7	0.3	42.8	53.2
Lithuania	568	21.2	64.9	21.2	10.0	1.8	1.9	0.1	19.3	22.8
Morocco	525	19.9	47.1	19.9	12.0	11.4	5.9	3.7	20.1	19.8
Netherlands	485	52.5	34.8	52.5	9.2	2.6	1.0	0.0	44.4	59.9
New Zealand	700	44.6	38.5	44.6	6.9	8.1	1.0	0.9	40.8	48.5
Norway	597	44.2	45.3	44.2	6.0	2.2	1.8	0.5	44.4	44.1
Qatar	1004	23.0	50.6	23.0	12.4	8.9	4.2	0.9	22.2	23.8
Russian Federation	630	35.3	49.6	35.3	2.6	10.8	1.6	0.1	30.5	40.5
Scotland	549	50.3	32.6	50.3	8.3	7.4	1.1	0.2	48.8	51.9
Singapore	723	75.9	17.6	75.9	2.6	3.8	0.2	0.0	71.3	80.4
Slovak Republic	702	39.0	52.9	39.0	2.5	3.5	2.0	0.2	32.7	44.1
Slovenia	607	26.9	60.7	26.9	6.3	3.9	1.9	0.3	27.1	26.6
Sweden	673	52.8	40.0	52.8	4.8	1.8	0.6	0.0	50.0	55.6
Tunisia	584	16.0	47.2	16.0	12.4	8.4	13.7	2.4	14.2	17.4
Ukraine	617	28.7	51.1	28.7	7.2	10.7	2.4	0.0	24.5	32.1
United States	1111	48.1	32.0	48.1	2.9	13.9	2.7	0.4	46.7	49.8
Yemen	827	22.3	32.6	22.3	19.0	17.3	7.0	1.8	26.5	19.1
International Avg.	635	39.8	44.3	39.8	6.9	5.9	2.6	0.6	37.8	41.8
Alberta, Canada	577	57.4	27.8	57.4	5.2	7.0	2.0	0.6	54.7	59.8
British Columbia, Canada	575	52.3	31.7	52.3	4.3	9.6	1.6	0.5	53.0	51.5
Dubai, UAE	419	30.6	41.0	30.6	3.7	12.4	4.1	8.2	25.8	34.7
Massachusetts, US	239	51.5	34.8	51.5	3.0	9.0	1.7	0.0	50.5	52.7
Minnesota, US	267	47.4	35.4	47.4	3.8	8.9	4.4	0.0	44.5	50.3
Ontario, Canada	493	47.7	34.4	47.7	4.7	10.4	1.5	1.1	49.1	46.6
Quebec, Canada	543	49.9	35.5	49.9	7.7	4.2	2.5	0.1	48.5	51.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041018 - S02\_03)  
 Label: Life cycle of a moth  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	595	0.7	17.0	51.7	28.1	2.5	17.6	0.7	0.0	1.2
Armenia	566	20.8	19.8	26.3	32.0	1.1	40.6	20.8	21.9	19.8
Australia	591	55.7	35.7	5.1	3.4	0.1	91.4	55.7	51.3	60.0
Austria	697	36.4	32.9	13.5	17.0	0.1	69.3	36.4	32.9	39.6
Chinese Taipei	588	60.6	36.2	1.4	1.8	0.0	96.8	60.6	58.6	62.6
Colombia	681	4.4	23.7	53.2	17.3	1.5	28.1	4.4	3.0	5.7
Czech Republic	610	40.4	41.1	10.2	7.8	0.4	81.6	40.4	39.4	41.5
Denmark	512	45.3	26.1	14.3	13.9	0.4	71.4	45.3	39.4	51.0
El Salvador	599	4.9	26.3	36.0	32.0	0.8	31.2	4.9	4.3	5.6
England	592	36.4	47.8	12.2	3.4	0.2	84.2	36.4	31.7	40.6
Georgia	598	15.8	7.6	42.5	33.7	0.4	23.4	15.8	14.6	16.9
Germany	753	37.5	39.0	12.8	10.0	0.7	76.5	37.5	33.3	42.2
Hong Kong SAR	544	22.4	61.5	9.3	6.7	0.0	84.0	22.4	20.9	23.9
Hungary	579	56.4	34.6	4.9	4.1	0.0	91.0	56.4	54.6	58.2
Iran, Islamic Rep. of	553	23.4	48.0	17.9	10.1	0.6	71.4	23.4	25.4	21.5
Italy	640	32.2	36.3	20.3	11.0	0.1	68.6	32.2	30.4	34.1
Japan	647	93.0	6.3	0.7	0.0	0.0	99.3	93.0	91.2	94.7
Kazakhstan	573	26.2	53.3	15.2	5.3	0.0	79.5	26.2	31.1	21.5
Kuwait	537	32.2	35.6	19.9	9.8	2.5	67.8	32.2	39.2	25.1
Latvia	548	39.3	41.2	14.6	4.6	0.3	80.5	39.3	33.8	44.3
Lithuania	568	42.6	38.4	12.3	6.7	0.1	80.9	42.6	37.7	46.7
Morocco	557	0.0	29.4	32.9	34.1	3.6	29.4	0.0	0.0	0.0
Netherlands	485	36.8	40.5	20.5	2.2	0.0	77.3	36.8	34.5	38.9
New Zealand	700	51.9	34.9	8.5	3.8	0.9	86.8	51.9	53.6	50.1
Norway	597	20.5	42.9	25.7	10.4	0.5	63.4	20.5	18.5	22.2
Qatar	1004	6.9	40.1	30.0	21.9	1.1	47.0	6.9	7.1	6.7
Russian Federation	630	23.3	58.8	12.6	5.2	0.1	82.1	23.3	28.6	17.6
Scotland	549	32.7	39.1	19.5	8.5	0.2	71.8	32.7	28.7	36.8
Singapore	723	63.8	32.1	3.5	0.7	0.0	95.8	63.8	60.8	66.7
Slovak Republic	702	66.2	26.1	4.3	3.2	0.2	92.3	66.2	65.5	66.8
Slovenia	607	25.1	45.0	20.6	9.0	0.3	70.1	25.1	26.0	24.1
Sweden	673	52.8	32.3	7.5	7.4	0.0	85.1	52.8	47.1	58.7
Tunisia	584	0.6	16.0	58.5	22.2	2.7	16.6	0.6	0.5	0.7
Ukraine	617	17.9	53.4	15.3	13.4	0.0	71.3	17.9	16.2	19.4
United States	1111	48.1	39.5	9.8	2.3	0.4	87.5	48.1	44.8	51.9
Yemen	832	0.1	8.4	61.6	28.0	1.8	8.6	0.1	0.0	0.3
International Avg.	637	32.6	34.6	20.1	12.0	0.7	67.2	32.6	31.3	33.8
Alberta, Canada	577	55.1	34.2	6.8	3.3	0.6	89.4	55.1	48.0	61.6
British Columbia, Canada	575	48.9	38.6	6.9	5.0	0.5	87.5	48.9	49.6	48.1
Dubai, UAE	419	17.3	38.9	21.9	13.4	8.5	56.2	17.3	17.7	17.0
Massachusetts, US	239	58.5	35.0	4.4	2.1	0.0	93.5	58.5	57.0	60.4
Minnesota, US	267	53.8	34.8	9.6	1.3	0.4	88.6	53.8	57.2	50.6
Ontario, Canada	493	47.7	34.3	13.5	3.3	1.1	82.1	47.7	46.4	48.8
Quebec, Canada	543	27.2	39.5	26.2	7.0	0.1	66.7	27.2	26.6	27.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041160 - S02\_04)  
 Label: Where plants get their energy from  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
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Algeria	497	24.6	8.7	26.7	31.6	24.6	5.1	3.3	25.4	23.9
Armenia	558	42.2	10.0	24.9	15.7	42.2	5.4	1.8	39.1	45.2
Australia	591	39.4	1.4	21.3	35.2	39.4	2.6	0.1	36.4	42.3
Austria	697	22.0	5.3	22.5	41.6	22.0	8.4	0.1	23.1	20.9
Chinese Taipei	588	23.2	7.1	34.1	29.6	23.2	6.0	0.0	27.4	19.0
Colombia	681	54.7	4.9	14.0	19.6	54.7	4.8	2.0	54.1	55.3
Czech Republic	610	21.8	5.9	50.5	17.6	21.8	3.8	0.4	20.7	22.9
Denmark	505	41.4	4.1	15.1	36.3	41.4	2.2	0.9	38.8	44.0
El Salvador	599	30.2	5.6	29.1	31.6	30.2	2.6	1.0	30.5	29.8
England	592	39.3	3.4	23.3	29.9	39.3	3.8	0.3	39.4	39.2
Georgia	598	13.8	13.5	45.1	22.4	13.8	4.1	1.0	11.1	16.4
Germany	753	23.6	5.4	20.5	38.7	23.6	10.9	0.9	25.0	22.1
Hong Kong SAR	544	36.7	9.8	31.4	19.4	36.7	2.7	0.0	35.7	37.7
Hungary	579	18.5	5.0	61.4	9.0	18.5	5.8	0.4	19.6	17.4
Iran, Islamic Rep. of	553	41.5	21.8	14.4	15.7	41.5	5.7	0.9	40.0	42.9
Italy	632	44.6	2.8	34.7	15.2	44.6	2.3	0.4	44.6	44.6
Japan	647	36.8	2.5	29.6	26.3	36.8	4.9	0.0	37.1	36.4
Kazakhstan	573	39.2	7.3	32.5	20.6	39.2	0.4	0.0	37.4	40.9
Kuwait	537	29.1	5.7	17.9	34.3	29.1	10.4	2.6	34.4	23.7
Latvia	548	26.6	4.6	38.6	23.8	26.6	6.2	0.3	27.8	25.5
Lithuania	568	48.3	2.7	11.6	24.7	48.3	12.5	0.1	50.8	46.2
Morocco	487	14.8	5.1	18.6	52.3	14.8	4.7	4.4	15.3	14.5
Netherlands	485	28.4	1.4	11.0	52.9	28.4	6.2	0.1	29.5	27.5
New Zealand	700	28.8	3.3	26.2	35.7	28.8	5.0	1.0	25.7	32.0
Norway	597	40.8	4.1	20.5	30.5	40.8	3.6	0.6	41.7	40.0
Qatar	1004	25.9	9.3	19.9	36.0	25.9	7.7	1.2	27.4	24.4
Russian Federation	630	23.4	3.0	53.3	18.0	23.4	2.2	0.1	23.3	23.6
Scotland	549	29.0	2.4	24.3	41.0	29.0	3.0	0.4	27.0	31.1
Singapore	723	91.0	1.1	2.4	5.1	91.0	0.2	0.2	90.4	91.6
Slovak Republic	702	24.1	4.3	50.1	18.0	24.1	3.2	0.3	26.5	22.2
Slovenia	607	23.9	5.6	36.8	28.5	23.9	4.9	0.3	24.2	23.6
Sweden	673	38.6	9.0	16.2	31.9	38.6	4.2	0.2	38.4	38.8
Tunisia	584	10.8	7.2	24.8	28.6	10.8	25.3	3.3	10.1	11.3
Ukraine	617	35.1	9.1	25.0	25.6	35.1	5.0	0.1	34.0	36.0
United States	1111	49.2	1.8	24.7	22.0	49.2	1.8	0.4	47.9	50.8
Yemen	832	23.1	12.0	20.8	31.8	23.1	9.5	2.7	23.4	22.9
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International Avg.	632	32.9	6.0	27.1	27.7	32.9	5.5	0.9	32.9	33.0
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Alberta, Canada	577	44.5	1.9	27.3	23.8	44.5	2.0	0.6	39.6	49.0
British Columbia, Canada	575	47.5	5.3	24.3	18.9	47.5	3.5	0.5	43.3	52.1
Dubai, UAE	419	48.1	3.1	16.2	19.6	48.1	4.3	8.8	49.5	46.8
Massachusetts, US	239	43.0	3.6	29.2	21.7	43.0	2.4	0.0	41.2	45.1
Minnesota, US	267	38.0	2.1	21.1	34.9	38.0	3.5	0.4	39.4	36.6
Ontario, Canada	493	48.3	2.8	23.1	21.9	48.3	2.6	1.2	46.3	49.9
Quebec, Canada	543	35.8	1.8	17.0	38.1	35.8	7.0	0.3	37.2	34.3
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DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041042 - S02\_05)  
 Label: Smoking is harmful to which organ  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	557	55.5	55.5	14.7	13.1	11.0	2.8	3.0	53.2	57.3
Armenia	562	87.2	87.2	0.4	4.3	2.7	3.2	2.0	87.1	87.3
Australia	591	87.4	87.4	5.2	4.8	1.2	1.3	0.1	85.2	89.5
Austria	696	85.7	85.7	2.7	7.2	1.3	2.7	0.3	87.1	84.5
Chinese Taipei	588	69.3	69.3	5.3	18.0	6.9	0.4	0.0	70.8	67.9
Colombia	681	78.5	78.5	6.2	5.6	5.6	1.4	2.7	75.7	81.2
Czech Republic	611	92.7	92.7	3.7	1.0	0.8	1.5	0.4	92.5	92.9
Denmark	512	88.9	88.9	2.3	3.7	2.3	1.4	1.4	88.6	89.2
El Salvador	599	71.3	71.3	14.5	6.4	4.8	2.0	1.0	66.8	76.5
England	592	87.6	87.6	3.7	6.4	1.6	0.4	0.3	86.7	88.4
Georgia	598	78.3	78.3	8.3	7.2	3.6	1.4	1.1	75.9	80.5
Germany	753	86.5	86.5	3.3	5.0	2.3	2.1	0.9	86.4	86.5
Hong Kong SAR	544	86.7	86.7	5.7	6.3	0.8	0.6	0.0	86.2	87.2
Hungary	579	93.8	93.8	1.1	3.4	0.2	1.1	0.4	94.9	92.7
Iran, Islamic Rep. of	553	24.2	24.2	29.7	11.5	29.5	3.7	1.4	25.1	23.2
Italy	638	92.4	92.4	1.6	2.7	1.8	1.1	0.4	91.9	92.9
Japan	647	72.6	72.6	7.1	8.4	11.5	0.5	0.0	76.5	68.9
Kazakhstan	573	91.5	91.5	3.0	2.2	3.1	0.1	0.0	90.3	92.7
Kuwait	537	56.7	56.7	10.7	10.2	15.1	3.8	3.4	57.7	55.7
Latvia	548	90.6	90.6	1.3	3.7	2.9	1.2	0.3	88.9	92.1
Lithuania	568	85.0	85.0	1.5	8.0	0.7	4.5	0.3	84.1	85.8
Morocco	509	51.9	51.9	7.8	15.3	16.1	4.2	4.7	52.0	51.4
Netherlands	485	95.0	95.0	1.5	2.1	0.7	0.6	0.1	93.3	96.5
New Zealand	700	83.9	83.9	5.6	5.5	2.2	1.9	1.0	84.9	82.8
Norway	597	91.3	91.3	3.1	1.5	2.2	1.0	0.9	89.9	92.6
Qatar	1004	45.0	45.0	15.5	19.2	14.4	4.3	1.6	42.2	47.9
Russian Federation	630	91.9	91.9	2.6	2.7	1.6	1.2	0.1	94.1	89.6
Scotland	549	90.2	90.2	3.3	2.9	2.0	1.2	0.5	90.2	90.3
Singapore	723	82.4	82.4	10.4	5.1	1.7	0.3	0.2	81.4	83.4
Slovak Republic	702	90.4	90.4	2.6	4.7	0.3	1.8	0.3	89.1	91.5
Slovenia	607	92.5	92.5	2.8	2.1	1.6	0.6	0.5	93.1	91.8
Sweden	673	91.0	91.0	3.2	4.1	0.6	0.7	0.4	93.2	88.8
Tunisia	584	45.2	45.2	10.2	9.8	13.1	17.6	4.0	47.3	43.4
Ukraine	617	84.2	84.2	3.1	9.7	1.2	1.6	0.1	80.9	87.0
United States	1111	89.4	89.4	4.1	3.6	1.9	0.5	0.5	90.5	88.2
Yemen	831	21.2	21.2	19.2	25.4	23.9	6.5	3.7	22.5	20.3
International Avg.	635	78.0	78.0	6.3	7.0	5.4	2.3	1.1	77.7	78.3
Alberta, Canada	577	87.4	87.4	3.9	4.6	3.0	0.6	0.6	84.2	90.3
British Columbia, Canada	575	89.3	89.3	2.7	4.1	2.0	1.4	0.5	88.3	90.3
Dubai, UAE	419	62.1	62.1	12.1	7.6	6.3	3.0	9.0	59.7	64.1
Massachusetts, US	239	95.9	95.9	1.0	2.0	0.3	0.7	0.0	96.8	94.9
Minnesota, US	267	91.6	91.6	3.7	1.8	1.6	0.9	0.4	92.8	90.4
Ontario, Canada	493	88.3	88.3	3.3	3.9	2.4	0.9	1.2	89.9	87.0
Quebec, Canada	543	92.3	92.3	1.8	1.3	1.4	2.9	0.3	93.6	91.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Reasoning (S041079 - S02\_06)  
 Label: Weight of object X compared to Y-Z  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	554	48.2	48.2	17.6	18.8	7.0	5.2	3.2	52.5	44.5
Armenia	564	72.1	72.1	8.8	3.8	2.4	10.8	2.2	69.4	74.6
Australia	591	85.6	85.6	6.3	4.9	2.4	0.7	0.1	81.7	89.3
Austria	696	82.0	82.0	5.3	7.5	2.3	2.7	0.3	80.8	83.0
Chinese Taipei	588	87.6	87.6	6.6	3.1	2.2	0.5	0.0	86.9	88.4
Colombia	681	61.7	61.7	11.1	13.7	5.9	4.7	2.9	60.7	62.6
Czech Republic	611	86.6	86.6	6.1	2.7	2.5	1.7	0.4	85.8	87.6
Denmark	512	86.9	86.9	3.6	4.4	1.2	2.4	1.6	87.1	86.7
El Salvador	599	45.8	45.8	17.2	19.6	11.4	4.6	1.5	44.3	47.4
England	592	88.5	88.5	4.0	5.3	1.6	0.4	0.3	89.0	88.1
Georgia	598	66.8	66.8	8.9	9.0	5.7	8.3	1.4	68.9	64.9
Germany	753	80.8	80.8	8.0	6.8	2.1	1.3	1.1	78.9	82.8
Hong Kong SAR	544	82.4	82.4	9.1	4.8	3.4	0.4	0.0	82.2	82.6
Hungary	579	80.0	80.0	8.5	6.7	2.8	1.7	0.4	80.9	79.0
Iran, Islamic Rep. of	553	55.7	55.7	18.3	12.3	4.4	7.5	1.8	58.6	52.8
Italy	639	83.8	83.8	8.4	5.0	1.0	1.4	0.4	81.5	86.0
Japan	647	87.6	87.6	6.4	3.2	2.1	0.7	0.0	89.8	85.6
Kazakhstan	573	89.6	89.6	5.8	3.4	0.9	0.1	0.1	89.0	90.2
Kuwait	537	38.2	38.2	21.2	18.3	6.8	12.0	3.6	42.4	34.0
Latvia	548	90.7	90.7	4.8	2.7	1.1	0.4	0.3	91.3	90.3
Lithuania	568	86.8	86.8	6.1	4.7	0.7	1.4	0.3	88.9	84.9
Morocco	517	36.9	36.9	18.3	21.9	9.4	7.7	5.8	35.5	38.2
Netherlands	485	89.1	89.1	7.6	2.4	0.7	0.0	0.1	89.6	88.7
New Zealand	700	81.3	81.3	7.6	6.2	2.0	1.7	1.1	81.3	81.4
Norway	597	80.4	80.4	6.4	5.9	3.8	2.6	1.0	81.3	79.6
Qatar	1004	46.2	46.2	21.0	17.7	8.1	5.0	2.0	48.2	44.2
Russian Federation	630	92.6	92.6	1.8	3.3	1.0	1.2	0.1	94.0	91.0
Scotland	549	84.5	84.5	6.8	4.4	2.7	1.0	0.6	84.7	84.2
Singapore	723	88.6	88.6	5.0	5.3	0.5	0.5	0.2	89.3	88.0
Slovak Republic	702	79.9	79.9	7.5	7.1	2.0	3.2	0.3	80.4	79.6
Slovenia	607	87.7	87.7	6.4	3.9	1.3	0.2	0.5	90.2	84.9
Sweden	673	85.7	85.7	5.7	5.6	1.6	1.0	0.4	86.6	84.8
Tunisia	584	46.5	46.5	14.8	12.9	6.7	15.0	4.1	47.0	46.1
Ukraine	617	78.1	78.1	7.1	10.5	1.9	2.3	0.1	77.4	78.6
United States	1111	84.9	84.9	8.0	4.1	1.5	0.9	0.5	85.3	84.5
Yemen	831	20.4	20.4	23.3	28.0	12.7	11.5	4.2	21.4	19.6
International Avg.	635	74.2	74.2	9.4	8.3	3.5	3.4	1.2	74.5	73.9
Alberta, Canada	577	88.0	88.0	2.3	6.4	2.1	0.8	0.6	89.3	86.8
British Columbia, Canada	575	83.9	83.9	6.2	4.8	3.0	1.7	0.5	82.1	85.8
Dubai, UAE	419	61.4	61.4	14.1	6.7	4.2	4.0	9.5	62.2	60.8
Massachusetts, US	239	89.7	89.7	3.0	3.2	2.6	1.4	0.0	88.0	91.8
Minnesota, US	267	85.4	85.4	5.7	6.6	0.9	0.9	0.4	85.4	85.4
Ontario, Canada	493	84.5	84.5	5.8	6.1	1.4	0.9	1.2	81.6	86.8
Quebec, Canada	543	80.7	80.7	7.9	6.3	2.5	1.1	1.5	83.0	78.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041073 - S02\_07)  
 Label: Reason for bulb not lighting  
 Type: CR Key: -

COUNTRY	N	10	11	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	597	13.2	10.8	0.7	28.2	43.0	4.1	24.0	23.8	24.2
Armenia	568	47.7	6.4	3.7	20.5	19.1	2.5	54.1	55.0	53.3
Australia	591	51.7	8.1	10.8	23.5	5.8	0.1	59.8	65.5	54.3
Austria	696	43.6	7.3	13.0	21.9	13.9	0.3	51.0	53.8	48.4
Chinese Taipei	588	52.9	26.2	6.6	8.8	5.6	0.0	79.0	79.2	78.8
Colombia	681	28.7	8.2	3.6	39.1	16.1	4.3	36.8	36.7	36.9
Czech Republic	611	50.1	5.9	5.4	29.4	8.9	0.4	55.9	53.9	58.1
Denmark	511	39.1	5.7	10.9	27.6	14.7	1.9	44.8	44.6	45.0
El Salvador	599	14.6	2.5	0.8	40.3	40.2	1.6	17.1	16.4	17.8
England	592	50.3	12.9	6.9	22.5	7.1	0.3	63.2	60.7	65.3
Georgia	598	11.0	17.5	2.0	34.2	33.8	1.5	28.5	30.8	26.4
Germany	753	47.5	11.0	9.7	21.2	9.5	1.1	58.5	59.9	56.9
Hong Kong SAR	544	49.5	4.1	25.9	15.9	4.6	0.0	53.7	51.4	55.9
Hungary	579	60.9	2.6	4.9	24.3	6.5	0.8	63.6	61.9	65.2
Iran, Islamic Rep. of	552	26.4	16.6	3.8	33.8	16.9	2.5	43.0	41.2	44.8
Italy	640	45.1	12.5	5.1	21.2	15.7	0.4	57.6	56.6	58.6
Japan	647	34.5	11.9	23.2	26.9	3.5	0.0	46.4	46.2	46.6
Kazakhstan	573	33.9	9.0	4.8	43.2	9.1	0.1	42.8	40.5	45.1
Kuwait	537	12.3	7.2	2.6	27.3	46.2	4.4	19.5	25.0	13.8
Latvia	548	53.8	6.9	14.5	20.7	3.8	0.3	60.7	52.6	68.1
Lithuania	568	33.6	20.4	6.4	28.3	11.0	0.3	54.0	53.3	54.6
Morocco	558	11.0	7.4	0.3	24.4	50.3	6.6	18.4	18.4	18.6
Netherlands	485	62.0	5.8	5.5	23.8	2.9	0.1	67.7	71.8	64.0
New Zealand	700	46.0	9.4	10.9	22.0	10.3	1.2	55.5	55.4	55.5
Norway	597	42.8	2.2	11.2	24.8	17.9	1.1	45.0	40.3	49.1
Qatar	1004	5.1	2.1	0.9	38.1	51.5	2.4	7.1	8.0	6.3
Russian Federation	630	53.7	7.6	5.3	27.1	6.3	0.1	61.3	57.3	65.6
Scotland	549	49.5	9.5	7.5	25.6	7.4	0.6	59.0	58.3	59.6
Singapore	723	62.8	9.6	4.6	20.0	2.7	0.2	72.4	73.7	71.1
Slovak Republic	702	45.7	13.4	2.0	28.1	10.6	0.3	59.1	53.9	63.3
Slovenia	607	41.4	18.2	1.9	32.8	5.2	0.5	59.7	57.7	61.8
Sweden	673	48.0	4.1	14.1	24.8	8.1	0.8	52.0	52.4	51.6
Tunisia	584	12.7	4.4	0.1	47.1	31.4	4.2	17.1	16.6	17.5
Ukraine	617	30.0	6.3	6.0	37.7	19.9	0.1	36.3	31.8	39.9
United States	1111	49.5	12.6	5.9	25.9	5.6	0.5	62.0	64.8	58.9
Yemen	832	2.7	1.6	0.2	49.1	41.3	5.1	4.3	3.6	4.8
International Avg.	637	37.9	9.1	6.7	28.1	16.8	1.4	47.0	46.5	47.4
Alberta, Canada	577	56.9	5.5	6.1	24.7	6.2	0.6	62.4	59.9	64.6
British Columbia, Canada	575	53.2	6.1	6.8	25.4	7.8	0.7	59.3	61.2	57.2
Dubai, UAE	419	26.0	8.1	4.2	25.3	25.7	10.7	34.1	37.2	31.5
Massachusetts, US	239	44.5	23.8	10.4	20.0	1.0	0.3	68.2	66.5	70.2
Minnesota, US	267	48.9	14.8	4.8	26.6	4.5	0.4	63.7	61.9	65.4
Ontario, Canada	493	54.6	7.8	5.7	26.2	4.5	1.2	62.4	65.2	60.2
Quebec, Canada	543	62.4	5.0	10.1	18.1	2.9	1.5	67.3	66.6	68.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041217 - S02\_08)  
 Label: Separation of a mixture  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	24.2	13.6	24.9	22.2	24.2	10.2	4.9	22.3	25.8
Armenia	565	53.7	10.9	9.3	9.2	53.7	14.2	2.7	55.7	51.9
Australia	591	49.1	15.9	20.8	11.7	49.1	2.3	0.2	46.9	51.3
Austria	696	69.6	7.8	6.7	11.3	69.6	4.2	0.4	69.0	70.1
Chinese Taipei	588	71.6	6.6	12.7	8.8	71.6	0.4	0.0	72.7	70.5
Colombia	681	43.0	13.0	21.2	11.5	43.0	6.1	5.2	39.8	46.1
Czech Republic	611	57.6	13.0	12.5	13.1	57.6	3.3	0.4	58.9	56.3
Denmark	511	46.5	12.9	18.7	10.6	46.5	9.1	2.1	43.0	50.0
El Salvador	599	26.9	17.6	27.1	21.6	26.9	4.1	2.7	29.3	24.1
England	592	52.1	10.4	14.7	19.0	52.1	3.3	0.4	54.8	49.6
Georgia	598	37.5	13.6	14.4	24.1	37.5	8.3	2.1	35.9	39.0
Germany	753	63.9	8.2	7.8	15.1	63.9	3.9	1.1	61.9	66.0
Hong Kong SAR	544	63.0	9.5	16.2	10.3	63.0	1.0	0.0	64.3	61.7
Hungary	579	59.2	5.7	19.0	10.0	59.2	5.2	0.9	60.4	58.0
Iran, Islamic Rep. of	552	61.2	8.9	8.1	11.8	61.2	6.7	3.3	61.7	60.8
Italy	636	48.3	11.7	17.2	16.4	48.3	6.0	0.4	46.4	50.2
Japan	647	93.2	1.7	1.7	1.5	93.2	1.8	0.1	95.8	90.9
Kazakhstan	573	74.5	7.6	6.9	10.2	74.5	0.7	0.1	72.1	76.8
Kuwait	537	30.0	14.6	24.4	17.7	30.0	8.3	4.9	33.9	26.0
Latvia	548	65.2	5.0	14.5	13.3	65.2	1.7	0.3	66.3	64.3
Lithuania	568	51.9	7.3	11.6	24.6	51.9	3.8	0.8	56.5	47.9
Morocco	522	24.4	8.1	25.8	27.3	24.4	6.5	7.8	22.4	26.8
Netherlands	485	43.8	10.9	16.5	25.6	43.8	2.9	0.3	40.2	47.0
New Zealand	700	43.4	16.0	19.9	15.4	43.4	4.0	1.2	45.0	41.9
Norway	597	39.8	11.7	24.6	15.9	39.8	6.4	1.7	41.8	38.1
Qatar	1004	25.6	17.8	28.9	19.3	25.6	5.5	2.9	28.6	22.3
Russian Federation	630	60.0	9.4	15.3	13.2	60.0	2.0	0.1	58.9	61.2
Scotland	549	44.9	12.0	20.9	17.5	44.9	3.9	0.8	46.5	43.2
Singapore	723	73.8	7.9	10.9	6.6	73.8	0.5	0.2	77.9	69.9
Slovak Republic	702	60.7	8.7	11.0	15.3	60.7	4.0	0.3	55.4	65.0
Slovenia	607	57.5	14.6	11.4	12.2	57.5	3.7	0.5	60.6	54.2
Sweden	673	49.2	13.3	16.7	16.1	49.2	3.9	0.8	46.5	52.1
Tunisia	584	23.1	9.9	25.5	16.0	23.1	20.3	5.1	28.3	19.1
Ukraine	617	60.6	8.6	13.7	14.0	60.6	2.8	0.2	61.6	59.8
United States	1111	50.8	11.3	19.3	16.4	50.8	1.6	0.6	50.4	51.3
Yemen	832	28.8	10.8	24.9	22.2	28.8	7.7	5.5	30.5	27.5
International Avg.	635	50.8	10.7	16.6	15.2	50.8	5.0	1.7	51.2	50.5
Alberta, Canada	577	52.1	11.1	20.6	13.3	52.1	2.0	1.0	51.6	52.5
British Columbia, Canada	575	49.8	11.0	18.5	14.3	49.8	5.5	0.9	48.2	51.4
Dubai, UAE	419	35.6	12.7	19.5	13.9	35.6	7.5	10.7	36.7	34.6
Massachusetts, US	239	65.6	6.7	10.9	13.3	65.6	3.1	0.3	65.7	65.5
Minnesota, US	267	53.8	10.2	17.1	17.6	53.8	0.8	0.4	57.5	50.2
Ontario, Canada	493	53.2	11.3	19.7	12.4	53.2	2.1	1.3	56.8	50.4
Quebec, Canada	543	39.8	13.2	26.9	14.6	39.8	3.9	1.5	36.1	43.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041196 - S02\_09)  
 Label: Which one runs only on electricity  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	552	38.6	19.9	17.5	38.6	14.1	4.5	5.4	40.6	36.8
Armenia	566	60.3	10.4	6.9	60.3	13.3	6.5	2.7	59.2	61.3
Australia	591	84.6	1.2	6.5	84.6	6.7	0.9	0.2	83.6	85.6
Austria	696	68.8	2.1	10.8	68.8	13.8	4.1	0.4	62.8	74.1
Chinese Taipei	588	67.2	3.0	16.0	67.2	13.5	0.3	0.0	65.0	69.5
Colombia	681	56.9	6.3	10.4	56.9	16.4	2.9	7.1	53.8	59.8
Czech Republic	611	85.2	1.2	5.8	85.2	6.6	0.8	0.4	80.6	90.1
Denmark	510	55.9	6.9	17.8	55.9	13.2	4.0	2.2	50.3	61.3
El Salvador	599	60.8	5.9	6.6	60.8	20.6	2.8	3.3	60.1	61.7
England	592	74.1	4.6	10.9	74.1	8.7	1.3	0.4	68.5	79.0
Georgia	598	65.9	5.9	14.3	65.9	8.6	3.1	2.1	63.6	68.1
Germany	753	67.9	1.4	15.2	67.9	10.3	3.9	1.4	61.6	74.8
Hong Kong SAR	544	59.2	0.9	26.8	59.2	12.1	1.0	0.0	53.1	65.0
Hungary	579	71.4	2.6	14.2	71.4	8.7	2.0	1.0	65.1	77.8
Iran, Islamic Rep. of	552	69.8	2.7	4.2	69.8	15.0	4.7	3.6	72.4	67.2
Italy	632	77.3	1.1	12.5	77.3	7.0	1.5	0.6	76.4	78.3
Japan	647	79.3	3.7	3.8	79.3	11.3	1.8	0.2	79.1	79.4
Kazakhstan	573	80.5	3.5	7.4	80.5	8.4	0.2	0.1	74.5	86.3
Kuwait	537	46.3	7.6	11.6	46.3	22.8	6.0	5.8	48.3	44.2
Latvia	548	82.0	1.4	2.6	82.0	12.0	1.6	0.4	79.0	84.6
Lithuania	568	77.6	3.2	4.9	77.6	10.2	3.0	1.1	74.4	80.4
Morocco	515	29.5	18.2	22.0	29.5	15.9	6.7	7.7	29.2	29.8
Netherlands	485	67.9	0.9	7.3	67.9	22.6	1.0	0.3	60.6	74.6
New Zealand	700	75.0	3.4	8.7	75.0	10.2	1.5	1.4	72.6	77.5
Norway	597	57.2	3.0	15.9	57.2	18.9	3.1	1.9	52.0	61.8
Qatar	1004	39.1	11.6	23.7	39.1	18.6	4.0	3.0	39.4	38.7
Russian Federation	630	88.0	0.9	4.2	88.0	5.6	1.1	0.1	90.4	85.4
Scotland	549	62.3	4.4	17.0	62.3	13.3	1.8	1.1	58.4	66.5
Singapore	723	75.7	1.8	8.2	75.7	13.9	0.2	0.2	73.2	78.1
Slovak Republic	702	69.1	3.1	9.3	69.1	14.3	3.9	0.3	59.6	76.8
Slovenia	607	46.7	2.9	12.9	46.7	32.2	4.7	0.5	39.8	54.3
Sweden	673	70.4	1.9	12.1	70.4	12.9	1.7	1.0	59.5	81.6
Tunisia	584	39.2	5.0	15.3	39.2	17.0	17.0	6.4	42.9	36.3
Ukraine	617	80.5	3.5	5.1	80.5	7.8	2.8	0.2	79.8	81.1
United States	1111	73.8	2.2	9.9	73.8	11.8	1.7	0.6	71.6	76.2
Yemen	831	38.6	12.0	20.7	38.6	16.4	6.4	5.9	35.0	41.3
International Avg.	635	65.1	4.7	11.6	65.1	13.5	3.2	1.9	62.1	67.9
Alberta, Canada	577	70.7	2.3	12.7	70.7	11.9	1.0	1.3	63.3	77.4
British Columbia, Canada	575	74.6	1.2	9.8	74.6	9.7	3.4	1.3	71.7	77.8
Dubai, UAE	419	55.4	2.7	9.9	55.4	14.9	6.1	11.1	57.4	53.6
Massachusetts, US	239	81.8	0.3	10.0	81.8	6.4	0.6	0.8	79.2	84.9
Minnesota, US	267	78.6	3.0	7.1	78.6	9.0	1.9	0.4	78.1	79.2
Ontario, Canada	493	74.3	2.6	8.3	74.3	12.3	0.5	2.1	68.9	78.6
Quebec, Canada	543	80.1	1.7	5.0	80.1	8.9	2.8	1.6	76.0	84.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041211 - S02\_10)  
 Label: Water disappearing from a dish  
 Type: CR Key: -

COUNTRY	N	10	19	79	OMIT	NOT	V1	1.GIRL %Right	2.BOY %Right
					TED	REACH ED			
Algeria	594	32.8	1.6	27.0	32.4	6.3	34.4	31.7	36.6
Armenia	569	57.0	8.6	11.3	20.2	2.9	65.6	65.0	66.2
Australia	591	45.2	1.7	47.1	5.8	0.3	46.9	42.3	51.3
Austria	696	60.2	0.0	30.1	9.3	0.4	60.2	52.1	67.3
Chinese Taipei	588	70.5	0.4	26.0	3.1	0.0	70.9	72.4	69.3
Colombia	681	18.0	0.1	51.8	22.2	7.8	18.1	14.3	21.6
Czech Republic	611	68.8	0.5	21.9	8.4	0.4	69.3	65.0	73.8
Denmark	512	50.5	1.4	35.3	10.6	2.1	51.9	50.7	53.1
El Salvador	599	9.6	0.5	56.5	29.0	4.4	10.2	7.7	13.1
England	592	63.8	0.6	27.6	7.5	0.4	64.5	61.3	67.3
Georgia	598	31.5	7.7	37.2	21.5	2.2	39.1	40.2	38.1
Germany	753	68.8	1.0	20.9	7.8	1.5	69.8	68.9	70.8
Hong Kong SAR	544	59.8	1.4	33.3	5.5	0.0	61.2	62.1	60.3
Hungary	579	70.9	0.3	22.1	5.5	1.3	71.2	66.2	76.1
Iran, Islamic Rep. of	552	45.0	0.8	31.3	19.0	3.9	45.8	43.3	48.2
Italy	640	53.1	1.7	31.9	12.7	0.6	54.8	52.6	57.0
Japan	647	77.6	0.4	20.2	1.6	0.2	78.1	76.1	79.9
Kazakhstan	573	76.7	0.6	18.7	3.9	0.1	77.3	74.5	80.1
Kuwait	537	24.9	0.9	26.4	42.0	5.9	25.8	29.7	21.8
Latvia	548	57.7	3.3	33.7	4.8	0.4	61.0	54.4	67.0
Lithuania	568	40.9	0.0	51.4	6.6	1.1	40.9	39.2	42.3
Morocco	557	20.1	0.3	22.6	47.8	9.2	20.5	19.4	21.4
Netherlands	485	54.0	0.3	42.8	2.6	0.3	54.4	47.5	60.6
New Zealand	700	28.8	3.7	59.3	6.7	1.5	32.5	26.7	38.6
Norway	597	34.5	0.4	49.0	13.8	2.3	34.9	31.9	37.6
Qatar	1004	13.5	0.1	29.9	53.2	3.2	13.6	14.7	12.4
Russian Federation	630	73.0	0.6	20.9	5.4	0.1	73.6	73.2	74.0
Scotland	549	36.5	0.7	53.2	8.1	1.5	37.2	33.2	41.4
Singapore	723	85.8	0.2	12.4	1.5	0.2	85.9	86.6	85.4
Slovak Republic	702	67.3	0.3	20.2	11.9	0.3	67.6	58.8	74.7
Slovenia	607	61.6	0.8	33.1	4.0	0.5	62.4	62.6	62.1
Sweden	673	37.7	1.9	51.6	7.8	1.0	39.6	37.9	41.3
Tunisia	584	21.0	2.8	44.1	25.2	6.8	23.9	22.6	24.8
Ukraine	617	60.2	1.1	25.1	12.7	0.9	61.3	57.1	64.7
United States	1111	58.9	1.0	34.8	4.6	0.8	59.8	56.8	63.3
Yemen	831	7.9	2.1	28.9	54.8	6.3	10.0	11.0	9.3
International Avg.	637	48.4	1.4	33.0	15.0	2.1	49.8	47.5	52.0
Alberta, Canada	577	51.7	3.8	38.1	5.0	1.4	55.5	47.9	62.5
British Columbia, Canada	575	59.9	1.6	30.4	6.6	1.4	61.6	62.2	60.9
Dubai, UAE	419	40.3	1.0	25.2	22.2	11.3	41.3	38.2	43.9
Massachusetts, US	239	72.5	3.1	21.8	1.8	0.8	75.6	72.8	78.9
Minnesota, US	267	58.0	3.8	33.1	4.3	0.9	61.7	60.0	63.4
Ontario, Canada	493	47.3	4.5	41.0	5.1	2.1	51.8	48.0	54.7
Quebec, Canada	543	57.4	0.4	36.1	4.0	2.0	57.8	51.9	63.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041051 - S02\_11)  
 Label: Three ice cubes placed in water  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	558	20.0	21.1	20.0	29.4	17.9	4.2	7.3	17.5	22.2
Armenia	565	33.2	21.1	33.2	14.8	11.9	14.1	5.0	29.7	36.4
Australia	591	55.6	5.1	55.6	13.5	24.5	0.6	0.7	49.9	61.3
Austria	696	56.1	15.0	56.1	12.4	14.0	1.8	0.6	52.7	59.1
Chinese Taipei	588	60.2	12.0	60.2	12.9	14.7	0.3	0.0	59.2	61.2
Colombia	681	37.3	16.8	37.3	16.8	15.8	4.2	9.1	36.0	38.5
Czech Republic	611	41.3	18.8	41.3	18.9	19.2	1.0	0.7	36.6	46.4
Denmark	511	50.3	13.3	50.3	12.9	19.5	1.5	2.5	46.2	54.4
El Salvador	599	37.6	19.1	37.6	19.8	15.5	2.3	5.8	37.9	37.3
England	592	37.0	8.1	37.0	21.3	32.1	1.0	0.4	33.4	40.2
Georgia	598	25.6	34.6	25.6	21.5	7.9	7.9	2.5	23.9	27.1
Germany	753	49.5	12.7	49.5	14.1	19.5	2.4	1.8	42.2	57.5
Hong Kong SAR	544	48.2	8.3	48.2	19.2	23.9	0.4	0.0	48.0	48.3
Hungary	579	33.6	16.6	33.6	21.8	24.3	2.5	1.3	29.1	38.0
Iran, Islamic Rep. of	552	21.0	12.7	21.0	27.5	26.8	6.7	5.4	16.4	25.4
Italy	636	39.5	14.9	39.5	16.2	25.9	1.8	1.7	36.6	42.4
Japan	647	58.2	5.3	58.2	13.3	21.6	1.1	0.4	54.5	61.5
Kazakhstan	573	39.5	17.1	39.5	21.9	21.2	0.2	0.1	35.5	43.5
Kuwait	537	31.1	11.3	31.1	23.8	22.3	4.6	6.9	30.7	31.5
Latvia	548	43.2	12.3	43.2	17.6	25.4	1.0	0.6	38.8	47.1
Lithuania	568	35.7	18.8	35.7	20.8	22.0	1.6	1.1	27.9	42.3
Morocco	525	24.1	14.8	24.1	26.8	17.9	5.6	10.7	21.9	26.4
Netherlands	485	34.6	15.5	34.6	21.8	27.5	0.4	0.3	27.5	41.0
New Zealand	700	43.9	8.7	43.9	17.4	26.1	2.3	1.6	38.5	49.5
Norway	597	49.0	9.8	49.0	12.4	22.4	3.7	2.8	47.3	50.4
Qatar	1004	27.6	19.2	27.6	23.5	22.0	3.7	3.9	25.8	29.6
Russian Federation	630	46.3	22.7	46.3	14.0	14.9	1.9	0.1	42.8	50.0
Scotland	549	36.3	6.1	36.3	18.2	35.9	1.7	1.8	35.8	36.8
Singapore	723	56.9	5.3	56.9	14.8	22.7	0.0	0.2	54.3	59.5
Slovak Republic	702	36.3	17.0	36.3	20.4	22.7	2.1	1.6	31.8	40.0
Slovenia	607	40.2	19.2	40.2	17.1	21.1	1.9	0.5	35.5	45.3
Sweden	673	50.8	8.3	50.8	18.2	20.0	1.7	1.0	45.3	56.4
Tunisia	583	20.0	12.0	20.0	26.8	15.6	17.5	8.0	19.3	20.5
Ukraine	617	26.9	22.1	26.9	29.1	19.8	0.8	1.3	24.3	29.0
United States	1111	44.4	5.2	44.4	14.9	33.5	1.2	0.8	41.3	48.1
Yemen	831	24.6	15.6	24.6	27.8	15.9	8.3	7.8	25.2	24.2
International Avg.	635	39.3	14.3	39.3	19.3	21.2	3.2	2.7	36.1	42.5
Alberta, Canada	577	45.7	4.5	45.7	16.0	31.3	1.0	1.6	43.1	48.0
British Columbia, Canada	575	46.9	4.9	46.9	14.6	28.6	3.5	1.4	44.1	50.0
Dubai, UAE	419	29.0	14.5	29.0	16.0	25.7	3.4	11.3	29.9	28.3
Massachusetts, US	239	54.6	5.6	54.6	14.6	24.1	0.3	0.8	54.9	54.2
Minnesota, US	267	51.8	3.4	51.8	12.8	29.6	1.5	0.9	44.6	58.9
Ontario, Canada	493	42.2	6.8	42.2	18.5	29.5	0.8	2.1	41.0	43.1
Quebec, Canada	543	47.6	10.5	47.6	16.3	22.6	0.8	2.2	46.1	49.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041089 - S02\_12)  
 Label: What covers most of Earth's surface  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	545	25.0	42.4	10.2	25.0	10.5	3.3	8.6	18.2	30.7
Armenia	565	65.4	7.1	5.5	65.4	10.2	3.1	8.7	60.4	70.1
Australia	591	67.1	9.7	14.8	67.1	6.2	1.4	0.8	60.1	73.9
Austria	696	63.7	11.9	12.4	63.7	8.3	2.9	0.9	63.1	64.2
Chinese Taipei	588	72.8	8.6	9.2	72.8	9.2	0.1	0.0	68.8	76.9
Colombia	681	30.3	24.4	13.5	30.3	16.7	4.3	10.7	27.2	33.2
Czech Republic	611	40.1	27.6	16.1	40.1	12.7	2.7	0.8	33.2	47.4
Denmark	511	73.1	10.1	8.0	73.1	4.6	1.0	3.1	65.3	80.7
El Salvador	599	29.7	22.9	23.6	29.7	13.6	3.8	6.5	27.5	32.3
England	592	74.1	5.5	13.3	74.1	4.8	1.7	0.6	71.7	76.2
Georgia	598	57.0	14.0	5.8	57.0	17.6	1.4	4.1	50.2	63.3
Germany	753	64.5	15.0	9.2	64.5	7.1	1.6	2.5	62.9	66.3
Hong Kong SAR	544	78.4	3.6	4.3	78.4	12.4	1.2	0.2	74.6	82.0
Hungary	579	64.0	15.9	9.8	64.0	7.7	1.1	1.5	61.6	66.4
Iran, Islamic Rep. of	552	37.3	39.7	7.3	37.3	7.0	2.3	6.4	37.5	37.2
Italy	637	67.1	8.9	10.5	67.1	9.7	1.8	2.0	61.3	72.8
Japan	647	65.1	14.7	5.9	65.1	11.7	2.2	0.4	62.4	67.7
Kazakhstan	573	86.7	7.8	2.2	86.7	3.1	0.1	0.1	85.6	87.8
Kuwait	537	25.6	47.8	8.9	25.6	6.2	4.0	7.5	20.4	30.8
Latvia	548	60.2	27.6	5.8	60.2	3.1	2.4	1.0	59.6	60.7
Lithuania	568	79.9	9.2	3.7	79.9	3.5	2.4	1.5	80.1	79.6
Morocco	517	26.1	39.7	6.9	26.1	13.8	2.4	11.1	27.5	24.3
Netherlands	485	43.9	42.8	6.6	43.9	4.8	1.3	0.6	40.7	46.8
New Zealand	700	62.4	3.6	19.6	62.4	7.7	3.7	2.9	58.7	66.2
Norway	597	62.0	10.6	10.6	62.0	11.8	1.5	3.6	58.0	65.5
Qatar	1004	28.5	37.9	13.9	28.5	11.8	3.3	4.6	29.4	27.5
Russian Federation	630	73.9	9.4	10.8	73.9	4.9	0.8	0.1	70.5	77.6
Scotland	549	70.5	4.6	15.1	70.5	5.3	2.0	2.6	70.9	70.0
Singapore	723	73.8	4.4	16.5	73.8	4.8	0.2	0.2	70.8	76.8
Slovak Republic	702	54.5	9.6	11.4	54.5	21.4	1.2	1.9	45.9	61.5
Slovenia	607	52.2	16.3	17.5	52.2	10.4	2.7	1.0	47.6	57.3
Sweden	673	72.0	7.9	12.2	72.0	5.1	1.2	1.6	66.4	77.8
Tunisia	583	15.4	37.0	11.2	15.4	11.2	13.8	11.4	13.9	16.5
Ukraine	617	65.8	14.2	8.6	65.8	7.5	2.1	1.8	64.0	67.3
United States	1111	75.4	6.2	11.0	75.4	4.6	1.8	1.1	72.5	78.7
Yemen	832	24.8	21.7	12.6	24.8	24.7	8.0	8.2	21.2	27.5
International Avg.	635	56.3	17.8	10.7	56.3	9.3	2.5	3.4	53.1	59.5
Alberta, Canada	577	68.8	5.0	17.2	68.8	5.8	1.1	2.1	64.5	72.7
British Columbia, Canada	575	69.2	4.1	14.2	69.2	6.2	3.6	2.6	67.3	71.3
Dubai, UAE	419	57.7	14.0	4.6	57.7	8.8	3.7	11.3	58.5	57.0
Massachusetts, US	239	85.4	3.5	5.6	85.4	2.1	2.5	0.8	82.8	88.6
Minnesota, US	267	76.5	4.5	12.0	76.5	1.4	4.2	1.4	82.1	71.0
Ontario, Canada	493	64.4	5.7	18.7	64.4	6.3	2.5	2.5	63.8	64.9
Quebec, Canada	543	64.3	10.0	15.4	64.3	4.4	3.5	2.4	64.4	64.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041156A - S02\_13A)  
 Label: Planet closest to the sun  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	548	20.3	23.7	20.5	20.3	20.1	6.0	9.4	19.2	21.2
Armenia	551	45.2	20.5	7.4	45.2	12.3	5.4	9.1	40.2	49.8
Australia	591	78.6	6.0	6.4	78.6	7.4	0.7	0.8	76.1	81.0
Austria	696	70.6	11.3	5.7	70.6	9.1	2.1	1.1	69.8	71.4
Chinese Taipei	588	73.3	6.1	6.9	73.3	13.1	0.5	0.0	71.5	75.2
Colombia	681	47.6	16.5	7.2	47.6	12.5	5.0	11.3	43.0	51.9
Czech Republic	611	68.0	13.3	5.7	68.0	10.1	2.1	0.8	66.7	69.4
Denmark	509	71.3	7.3	6.2	71.3	8.8	3.2	3.2	68.7	73.9
El Salvador	599	39.1	21.8	12.1	39.1	16.0	3.2	7.7	40.5	37.6
England	592	79.2	6.8	3.9	79.2	8.5	0.9	0.6	75.7	82.4
Georgia	598	45.2	27.1	9.8	45.2	8.9	4.3	4.7	44.4	45.8
Germany	753	71.8	8.9	5.7	71.8	8.7	2.2	2.7	69.0	74.9
Hong Kong SAR	544	75.3	6.6	6.0	75.3	8.3	3.7	0.2	72.5	78.0
Hungary	579	71.2	14.7	5.6	71.2	5.4	1.6	1.5	70.7	71.6
Iran, Islamic Rep. of	552	48.5	13.4	8.9	48.5	15.2	7.2	6.8	49.9	47.2
Italy	635	64.4	14.0	4.7	64.4	10.2	4.7	2.0	58.3	70.6
Japan	647	74.5	8.9	6.5	74.5	7.1	2.1	0.8	76.6	72.6
Kazakhstan	573	70.7	15.1	6.9	70.7	6.0	1.1	0.1	68.1	73.2
Kuwait	537	30.7	26.1	12.5	30.7	17.5	5.2	8.0	30.2	31.2
Latvia	548	70.7	10.7	5.9	70.7	10.6	1.0	1.1	69.7	71.6
Lithuania	568	69.3	12.3	7.0	69.3	5.9	3.9	1.5	71.7	67.3
Morocco	451	25.9	25.3	15.8	25.9	10.9	9.2	13.0	21.7	30.3
Netherlands	485	72.8	6.0	4.5	72.8	15.2	0.9	0.6	67.8	77.4
New Zealand	700	69.3	8.5	8.8	69.3	9.0	1.5	2.9	63.6	75.2
Norway	597	64.4	10.0	10.4	64.4	7.0	4.3	3.9	63.6	65.1
Qatar	1004	23.5	28.9	19.0	23.5	19.0	4.8	4.8	21.9	25.1
Russian Federation	630	76.7	9.5	4.2	76.7	5.9	3.4	0.4	79.8	73.4
Scotland	549	69.5	9.6	5.0	69.5	11.9	1.3	2.6	67.4	71.7
Singapore	722	75.7	9.6	4.1	75.7	10.2	0.2	0.2	75.6	75.7
Slovak Republic	702	76.8	12.5	3.0	76.8	4.6	1.2	1.9	71.0	81.5
Slovenia	607	71.4	9.1	5.3	71.4	8.3	5.0	1.0	70.3	72.5
Sweden	673	74.1	6.9	7.2	74.1	8.6	1.6	1.7	72.0	76.2
Tunisia	584	34.0	17.3	10.0	34.0	12.7	13.2	12.8	35.6	32.8
Ukraine	617	68.2	12.6	3.9	68.2	10.1	3.0	2.2	72.1	64.9
United States	1111	73.6	7.7	5.3	73.6	10.8	1.3	1.2	72.2	75.3
Yemen	831	21.2	31.5	16.3	21.2	13.2	8.8	9.1	15.8	25.4
International Avg.	632	60.6	13.8	7.9	60.6	10.5	3.5	3.7	59.0	62.2
Alberta, Canada	577	68.6	12.5	3.1	68.6	12.1	1.6	2.1	62.9	73.7
British Columbia, Canada	575	74.9	7.8	5.6	74.9	7.1	1.7	2.9	72.5	77.5
Dubai, UAE	419	52.9	13.2	4.4	52.9	12.5	5.7	11.3	51.0	54.4
Massachusetts, US	239	82.9	5.9	2.8	82.9	6.9	0.7	0.8	82.6	83.1
Minnesota, US	267	75.5	8.1	2.9	75.5	9.4	2.7	1.4	75.0	75.9
Ontario, Canada	493	66.2	12.8	5.6	66.2	11.2	1.7	2.6	65.9	66.4
Quebec, Canada	543	73.4	8.4	4.6	73.4	10.1	1.1	2.4	67.1	79.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Applying (S041156B - S02\_13B)  
 Label: Planet with lowest temperature  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	593	13.4	53.2	20.6	12.8	13.4	16.4	10.8
Armenia	529	19.5	22.9	44.8	12.7	19.5	16.3	22.7
Australia	591	67.1	23.0	8.9	0.9	67.1	63.9	70.3
Austria	696	49.8	29.8	18.6	1.8	49.8	47.1	52.2
Chinese Taipei	588	47.2	48.9	3.8	0.2	47.2	49.0	45.4
Colombia	681	23.4	32.2	31.0	13.4	23.4	19.6	26.8
Czech Republic	611	47.5	34.2	17.1	1.2	47.5	45.4	49.7
Denmark	510	40.6	28.7	26.6	4.1	40.6	35.4	45.8
El Salvador	599	16.4	37.4	36.6	9.6	16.4	14.4	18.7
England	592	66.4	23.9	8.8	1.0	66.4	64.6	67.9
Georgia	598	20.9	13.8	58.4	6.9	20.9	20.0	21.7
Germany	753	55.3	28.8	11.9	4.0	55.3	50.2	61.0
Hong Kong SAR	544	54.3	34.8	8.0	2.9	54.3	53.8	54.7
Hungary	579	49.6	32.1	16.0	2.4	49.6	46.5	52.6
Iran, Islamic Rep. of	552	13.8	40.2	35.3	10.7	13.8	11.5	16.0
Italy	640	48.6	31.2	15.1	5.1	48.6	45.3	52.0
Japan	647	52.3	42.5	3.1	2.1	52.3	56.5	48.3
Kazakhstan	573	44.5	21.2	33.9	0.3	44.5	44.1	45.0
Kuwait	537	13.5	30.3	45.8	10.4	13.5	18.1	8.7
Latvia	.	.	.	.	.	.	.	.
Lithuania	568	54.5	22.7	18.1	4.6	54.5	56.1	53.2
Morocco	556	12.5	52.9	18.5	16.1	12.5	11.2	14.0
Netherlands	485	56.7	32.7	9.8	0.8	56.7	51.3	61.7
New Zealand	700	58.2	30.5	7.6	3.7	58.2	57.2	59.1
Norway	597	40.9	28.8	24.1	6.1	40.9	36.7	44.7
Qatar	1004	7.3	27.8	57.0	7.8	7.3	8.7	5.9
Russian Federation	630	53.0	18.8	27.3	0.9	53.0	53.9	52.0
Scotland	549	58.5	28.2	10.3	3.1	58.5	56.1	61.0
Singapore	722	68.2	27.1	4.4	0.4	68.2	68.9	67.6
Slovak Republic	702	46.8	32.7	18.0	2.4	46.8	39.4	52.8
Slovenia	607	48.7	36.1	10.6	4.7	48.7	48.8	48.6
Sweden	673	60.2	26.1	10.5	3.2	60.2	59.7	60.7
Tunisia	584	17.7	32.9	33.1	16.3	17.7	19.6	16.2
Ukraine	617	31.3	23.7	40.9	4.2	31.3	32.3	30.4
United States	1111	58.4	27.9	11.8	1.9	58.4	55.6	61.5
Yemen	831	2.6	25.1	59.0	13.4	2.6	3.4	1.9
International Avg.	639	40.6	30.9	23.0	5.5	40.6	39.3	41.8
Alberta, Canada	577	57.5	28.4	11.1	3.0	57.5	53.8	60.9
British Columbia, Canada	575	62.5	26.0	7.2	4.3	62.5	55.6	69.9
Dubai, UAE	419	31.1	36.4	18.9	13.5	31.1	29.0	32.9
Massachusetts, US	239	71.7	18.9	7.9	1.5	71.7	68.0	76.2
Minnesota, US	267	63.6	22.8	11.7	1.9	63.6	62.9	64.3
Ontario, Canada	493	58.5	30.7	7.4	3.4	58.5	52.1	63.5
Quebec, Canada	543	52.8	35.3	9.4	2.5	52.8	47.2	58.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031229 - S03\_01)  
 Label: Which group of animals are mammals  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	536	32.4	15.6	32.4	21.2	20.7	7.5	2.5	31.8	33.0
Armenia	580	59.5	9.2	59.5	3.3	20.4	7.3	0.3	58.1	60.9
Australia	596	53.7	14.2	53.7	2.0	28.7	1.4	0.1	50.6	57.0
Austria	704	49.6	10.0	49.6	15.2	22.7	2.6	0.0	54.1	45.5
Chinese Taipei	589	45.7	21.2	45.7	4.9	27.3	0.9	0.0	43.3	48.3
Colombia	685	24.9	14.7	24.9	18.8	30.3	8.1	3.2	25.1	24.6
Czech Republic	612	64.6	11.4	64.6	8.1	12.9	3.0	0.0	67.7	61.6
Denmark	512	67.3	7.2	67.3	7.4	16.0	1.6	0.4	69.2	65.6
El Salvador	598	28.2	13.4	28.2	13.4	36.6	4.5	3.9	25.1	31.0
England	615	45.4	14.1	45.4	4.7	35.5	0.3	0.0	45.0	45.8
Georgia	595	45.5	10.0	45.5	4.4	32.7	5.8	1.6	44.3	46.7
Germany	744	52.9	7.8	52.9	11.8	24.9	2.3	0.3	54.2	51.6
Hong Kong SAR	550	53.9	17.4	53.9	2.6	25.5	0.7	0.0	51.0	56.5
Hungary	574	61.9	9.8	61.9	4.2	21.9	2.1	0.0	61.5	62.3
Iran, Islamic Rep. of	549	38.4	16.7	38.4	13.4	24.6	5.6	1.2	37.3	39.3
Italy	635	62.7	13.2	62.7	5.3	16.4	2.3	0.0	61.3	64.1
Japan	641	46.2	14.6	46.2	7.5	26.9	4.7	0.1	47.5	45.0
Kazakhstan	573	58.9	7.5	58.9	12.6	20.7	0.3	0.0	53.7	64.4
Kuwait	536	56.4	11.1	56.4	8.4	18.4	5.3	0.4	61.5	51.3
Latvia	557	58.1	6.1	58.1	5.7	28.7	1.4	0.0	64.4	52.3
Lithuania	570	41.7	17.7	41.7	8.7	28.4	3.4	0.0	43.5	39.9
Morocco	261	32.4	15.8	32.4	14.5	19.4	9.9	8.0	29.7	34.8
Netherlands	480	44.0	10.4	44.0	13.0	32.0	0.4	0.3	41.4	46.6
New Zealand	702	41.2	15.4	41.2	4.5	35.7	2.6	0.5	43.5	38.8
Norway	588	46.9	8.8	46.9	8.8	32.1	2.7	0.6	49.2	44.9
Qatar	1011	31.5	21.9	31.5	19.8	20.4	5.2	1.2	34.7	28.2
Russian Federation	632	40.4	8.6	40.4	25.7	22.6	1.7	0.9	39.3	41.5
Scotland	550	49.6	11.3	49.6	7.3	29.5	2.3	0.0	49.6	49.5
Singapore	724	76.4	9.8	76.4	1.7	12.0	0.0	0.0	76.1	76.7
Slovak Republic	707	72.0	8.5	72.0	7.3	9.9	2.3	0.0	69.7	73.8
Slovenia	620	50.0	5.5	50.0	21.1	21.4	1.8	0.2	51.5	48.5
Sweden	679	46.3	7.3	46.3	10.8	34.0	1.6	0.0	46.8	45.7
Tunisia	590	26.2	13.3	26.2	19.6	20.1	17.3	3.4	23.5	28.5
Ukraine	616	24.0	12.4	24.0	30.0	30.9	2.2	0.4	22.8	25.1
United States	1109	58.7	19.1	58.7	3.0	18.5	0.7	0.0	59.2	58.3
Yemen	833	30.9	12.9	30.9	24.3	18.2	9.2	4.5	30.8	30.9
International Avg.	629	47.7	12.3	47.7	11.0	24.4	3.6	0.9	47.7	47.7
Alberta, Canada	581	58.7	16.8	58.7	3.7	19.3	1.6	0.0	57.6	59.6
British Columbia, Canada	575	53.6	17.2	53.6	3.8	23.2	2.3	0.0	57.7	49.8
Dubai, UAE	431	45.9	14.7	45.9	8.1	25.7	5.6	0.0	50.7	41.9
Massachusetts, US	246	66.5	13.3	66.5	2.3	15.6	2.0	0.3	64.2	69.1
Minnesota, US	266	63.1	12.3	63.1	1.4	20.7	2.5	0.0	65.5	60.0
Ontario, Canada	491	56.9	16.2	56.9	4.2	20.7	2.0	0.0	57.7	56.4
Quebec, Canada	543	47.3	13.4	47.3	5.5	31.2	2.6	0.0	50.2	44.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031270 - S03\_02)  
 Label: Can oak tree and sunflower reproduce  
 Type: CR Key: -

COUNTRY	N	10	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	594	9.6	0.3	40.2	23.8	16.5	7.2	2.4	10.0	11.3	8.9
Armenia	584	22.2	4.8	51.7	3.4	8.5	9.2	0.3	27.0	25.9	28.1
Australia	596	19.9	0.0	61.2	17.2	0.8	0.6	0.2	19.9	23.2	16.4
Austria	704	17.1	0.0	64.3	11.5	0.6	6.5	0.0	17.1	18.7	15.6
Chinese Taipei	589	44.8	0.2	43.3	11.2	0.0	0.5	0.0	45.0	47.0	42.9
Colombia	685	17.1	0.0	55.6	18.0	1.0	5.0	3.3	17.1	16.7	17.5
Czech Republic	612	19.1	0.7	71.6	5.6	0.5	2.5	0.0	19.8	21.0	18.7
Denmark	513	19.4	0.0	60.4	14.5	3.0	2.4	0.4	19.4	16.0	22.6
El Salvador	598	12.6	1.8	50.4	24.7	2.8	3.7	4.0	14.3	17.3	11.7
England	615	19.7	0.0	66.7	10.8	0.6	2.2	0.0	19.7	20.8	18.5
Georgia	595	6.3	1.5	73.6	7.8	4.7	4.5	1.6	7.8	11.0	4.8
Germany	744	21.6	0.0	62.6	9.6	0.6	5.3	0.3	21.6	21.6	21.6
Hong Kong SAR	550	26.4	0.4	55.8	15.3	1.0	1.0	0.0	26.8	29.5	24.2
Hungary	574	9.6	0.1	74.8	12.7	0.4	2.4	0.0	9.8	8.7	10.9
Iran, Islamic Rep. of	549	16.5	0.6	52.3	21.8	4.2	3.5	1.2	17.1	18.0	16.3
Italy	637	21.5	2.2	67.1	4.3	1.8	2.9	0.2	23.7	24.6	22.8
Japan	641	27.8	0.4	47.6	20.1	1.7	2.3	0.1	28.2	28.1	28.3
Kazakhstan	573	10.9	0.1	69.3	18.5	0.8	0.4	0.0	11.1	10.8	11.3
Kuwait	536	6.0	0.4	46.3	37.2	4.0	5.8	0.4	6.3	8.7	4.0
Latvia	557	23.7	2.5	65.9	6.1	0.9	1.0	0.0	26.2	28.6	24.0
Lithuania	570	8.9	0.8	75.2	13.1	0.4	1.7	0.0	9.6	8.6	10.7
Morocco	278	5.8	0.2	36.3	35.5	6.4	8.0	7.9	5.9	7.3	4.8
Netherlands	480	8.0	0.1	72.9	16.7	1.2	0.8	0.3	8.1	8.5	7.8
New Zealand	702	17.1	0.0	61.6	16.9	1.3	2.6	0.5	17.1	16.2	18.1
Norway	588	11.7	0.0	70.0	15.0	0.7	2.0	0.6	11.7	11.7	11.8
Qatar	1012	4.0	0.0	36.2	52.2	2.0	4.4	1.2	4.0	5.6	2.2
Russian Federation	632	20.2	0.1	69.9	8.4	0.3	0.2	0.9	20.3	21.2	19.3
Scotland	550	16.1	0.0	66.9	12.2	0.3	4.5	0.0	16.1	16.8	15.4
Singapore	724	39.1	0.0	48.8	11.3	0.6	0.2	0.0	39.1	41.9	36.3
Slovak Republic	707	14.4	0.0	72.3	11.1	0.9	1.2	0.1	14.4	15.1	13.7
Slovenia	620	9.7	0.1	78.8	8.8	0.6	1.5	0.6	9.8	12.5	7.1
Sweden	679	15.5	0.0	71.7	11.4	0.9	0.5	0.0	15.5	18.0	13.3
Tunisia	590	6.3	1.0	45.8	28.9	11.5	2.8	3.8	7.2	8.6	6.1
Ukraine	616	11.8	1.2	75.8	8.6	0.4	1.8	0.4	13.0	15.4	10.8
United States	1109	18.3	0.1	66.4	13.5	0.2	1.4	0.0	18.5	19.3	17.5
Yemen	833	1.5	1.1	22.6	40.6	21.2	8.0	4.9	2.6	2.7	2.5
International Avg.	632	16.1	0.6	59.8	16.6	2.9	3.1	1.0	16.7	17.7	15.7
Alberta, Canada	581	16.6	0.4	62.9	15.5	1.4	3.2	0.0	17.1	18.3	15.9
British Columbia, Canada	575	16.3	0.5	66.6	12.1	1.5	2.9	0.0	16.8	19.0	14.9
Dubai, UAE	431	21.5	1.8	48.7	18.3	3.1	6.6	0.0	23.3	28.6	18.8
Massachusetts, US	246	28.2	0.0	58.6	8.9	1.4	2.5	0.3	28.2	30.8	25.4
Minnesota, US	266	19.5	0.0	64.7	13.0	0.0	2.9	0.0	19.5	18.3	21.0
Ontario, Canada	491	18.8	0.7	62.3	14.2	1.7	2.2	0.0	19.6	19.8	19.4
Quebec, Canada	543	28.5	0.0	54.1	12.9	2.2	2.4	0.0	28.5	33.5	23.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031026 - S03\_03)  
 Label: Skulls of plant-eater/animal-eater  
 Type: CR Key: -

COUNTRY	N	20	29	10	19	70	71	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	595	10.3	0.1	10.9	1.7	10.6	8.0	39.4	16.4	2.6	23.1	10.4	11.4	9.5
Armenia	582	7.2	6.2	17.0	3.5	25.6	4.0	18.0	18.0	0.5	33.9	13.4	10.1	16.6
Australia	596	67.5	0.0	12.7	0.0	6.9	4.8	5.9	2.0	0.2	80.3	67.5	67.5	67.4
Austria	704	58.1	0.0	13.6	0.0	11.6	4.8	7.7	4.2	0.1	71.7	58.1	56.1	59.8
Chinese Taipei	589	71.7	0.0	13.8	1.9	9.7	2.1	0.2	0.5	0.0	87.5	71.7	74.5	68.9
Colombia	685	11.6	0.0	18.0	0.2	11.4	5.9	37.6	10.8	4.5	29.8	11.6	9.5	13.5
Czech Republic	612	44.5	1.4	15.8	0.3	18.8	8.3	7.8	2.7	0.3	62.1	45.9	46.0	45.9
Denmark	513	47.8	0.0	31.5	0.3	8.5	3.2	5.1	3.3	0.4	79.6	47.8	52.0	43.7
El Salvador	598	11.2	0.1	21.0	0.1	18.1	12.0	25.9	7.3	4.3	32.4	11.3	13.0	9.7
England	615	62.6	0.4	16.7	0.4	4.9	6.8	6.1	2.2	0.0	80.1	63.0	58.6	67.6
Georgia	595	11.1	1.0	7.9	2.4	25.7	4.4	18.3	26.9	2.2	22.4	12.1	14.3	10.0
Germany	744	60.8	0.0	15.1	0.0	8.7	6.6	6.8	1.6	0.3	76.0	60.8	60.7	60.9
Hong Kong SAR	550	58.0	0.0	11.3	0.0	17.7	5.4	5.1	2.4	0.0	69.3	58.0	60.4	55.7
Hungary	574	40.9	0.0	22.7	0.0	10.3	4.3	17.5	4.4	0.0	63.5	40.9	39.0	42.8
Iran, Islamic Rep. of	549	40.4	0.0	6.4	1.5	16.5	20.5	8.9	4.4	1.4	48.4	40.4	40.6	40.2
Italy	637	39.9	8.1	19.0	2.0	9.7	3.1	12.3	5.9	0.2	69.0	48.0	48.1	47.8
Japan	641	46.6	0.0	33.0	0.2	4.3	6.5	8.2	1.1	0.1	79.8	46.6	48.9	44.5
Kazakhstan	573	18.7	0.0	35.4	0.1	26.8	3.6	12.5	2.9	0.0	54.2	18.7	12.2	25.4
Kuwait	536	16.9	1.6	9.8	0.4	33.6	13.5	12.6	10.7	0.9	28.7	18.5	23.3	13.7
Latvia	557	53.3	1.3	22.1	1.3	2.8	4.4	12.9	1.9	0.0	78.1	54.6	55.9	53.4
Lithuania	570	46.9	1.1	18.5	1.2	12.6	3.4	13.4	3.0	0.0	67.6	48.0	49.5	46.3
Morocco	551	14.1	0.3	8.0	0.5	11.8	4.7	28.1	28.5	4.0	22.8	14.4	14.6	13.5
Netherlands	480	56.6	0.0	24.6	0.9	9.3	4.6	2.9	0.9	0.3	82.0	56.6	60.8	52.5
New Zealand	702	60.5	0.3	17.8	0.2	7.3	3.4	7.7	2.5	0.5	78.7	60.7	61.7	59.6
Norway	588	46.5	0.0	9.0	0.8	25.2	6.6	7.2	4.1	0.6	56.2	46.5	49.3	44.0
Qatar	1012	5.9	0.0	6.2	1.0	23.7	18.3	28.5	15.0	1.5	13.0	5.9	7.4	4.3
Russian Federation	632	52.3	0.0	11.1	0.0	22.1	6.9	6.2	0.5	0.9	63.3	52.3	56.1	48.7
Scotland	550	53.7	0.0	18.2	0.7	9.1	8.8	6.1	3.4	0.0	72.6	53.7	57.4	49.9
Singapore	724	68.9	0.0	15.0	0.0	4.1	4.2	7.7	0.1	0.0	84.0	68.9	69.4	68.4
Slovak Republic	707	34.6	1.5	24.4	0.5	20.6	2.7	11.5	4.0	0.1	61.1	36.2	34.7	37.4
Slovenia	620	42.4	0.0	28.1	0.2	4.4	10.2	11.9	2.3	0.6	70.7	42.4	42.7	42.1
Sweden	679	60.9	0.1	20.7	0.1	7.9	5.9	2.9	1.3	0.1	81.8	61.0	63.3	58.9
Tunisia	590	17.4	0.6	17.6	0.3	11.7	4.8	32.5	11.1	3.9	36.0	18.1	17.3	18.7
Ukraine	616	26.0	1.7	8.7	6.3	31.6	10.9	10.4	4.0	0.4	42.7	27.7	29.9	25.6
United States	1109	66.3	0.1	19.4	0.3	2.7	5.4	4.4	1.5	0.0	86.1	66.4	66.2	66.6
Yemen	830	1.5	0.2	1.7	8.1	4.2	4.1	58.6	16.6	5.0	11.4	1.7	2.2	1.3
International Avg.	639	39.8	0.7	16.7	1.0	13.6	6.6	14.1	6.3	1.0	58.3	40.5	41.2	39.9
Alberta, Canada	581	68.2	0.0	13.9	0.6	6.2	4.7	4.1	2.4	0.0	82.7	68.2	67.8	68.4
British Columbia, Canada	575	68.4	0.0	11.4	0.0	8.1	3.1	5.4	3.6	0.0	79.8	68.4	75.3	62.3
Dubai, UAE	431	32.7	1.2	16.9	2.1	16.3	8.3	14.9	6.5	1.0	53.0	33.9	35.6	32.5
Massachusetts, US	246	71.9	0.0	15.9	0.9	1.6	5.2	2.7	1.4	0.3	88.7	71.9	75.1	68.3
Minnesota, US	266	64.6	0.4	21.5	1.0	1.0	3.4	7.5	0.7	0.0	87.5	65.0	62.1	68.7
Ontario, Canada	491	65.6	0.3	14.6	0.0	3.4	6.4	7.1	2.4	0.0	80.6	65.9	67.1	65.1
Quebec, Canada	543	60.7	0.0	24.7	0.0	7.2	3.4	2.0	1.8	0.2	85.4	60.7	61.8	59.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031319 - S03\_04)  
 Label: Energy to heal a cut  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	569	23.2	31.8	29.7	23.2	5.4	6.5	3.3	23.2	23.2
Armenia	578	41.6	16.5	23.6	41.6	2.3	15.1	0.9	40.3	42.9
Australia	596	31.5	9.3	33.7	31.5	23.2	2.2	0.2	30.2	32.8
Austria	704	22.0	8.3	40.0	22.0	24.6	5.1	0.1	15.0	28.2
Chinese Taipei	589	22.8	13.1	59.6	22.8	3.5	0.9	0.0	20.0	25.9
Colombia	685	35.7	24.8	15.7	35.7	10.9	5.7	7.1	31.1	40.1
Czech Republic	612	21.2	29.7	26.7	21.2	16.3	5.8	0.3	17.9	24.5
Denmark	511	28.7	15.3	26.1	28.7	25.3	3.1	1.4	20.8	36.3
El Salvador	598	24.9	27.5	27.0	24.9	12.3	3.0	5.4	25.0	24.8
England	615	34.2	6.4	28.9	34.2	28.6	1.4	0.5	30.8	37.8
Georgia	595	20.7	18.5	47.2	20.7	4.0	6.2	3.4	21.3	20.1
Germany	744	21.8	9.1	39.5	21.8	24.8	4.4	0.5	16.0	27.3
Hong Kong SAR	550	41.6	21.0	16.2	41.6	19.4	1.8	0.0	36.3	46.5
Hungary	574	38.6	4.6	45.1	38.6	7.9	3.3	0.6	34.5	43.1
Iran, Islamic Rep. of	549	32.5	18.5	37.9	32.5	3.9	5.6	1.6	34.6	30.7
Italy	621	49.2	15.3	21.1	49.2	10.8	3.1	0.5	44.7	53.5
Japan	641	63.1	4.5	28.3	63.1	3.2	0.8	0.1	62.9	63.4
Kazakhstan	573	31.8	11.2	54.6	31.8	2.5	0.0	0.0	24.9	38.9
Kuwait	536	23.0	19.0	40.2	23.0	7.3	9.4	1.0	26.9	19.1
Latvia	557	23.4	20.8	39.6	23.4	12.3	4.0	0.0	20.7	25.9
Lithuania	570	39.3	20.6	24.0	39.3	4.0	11.4	0.6	38.1	40.5
Morocco	525	30.4	19.2	29.3	30.4	7.8	7.7	5.5	31.8	29.3
Netherlands	480	52.5	7.4	26.5	52.5	12.5	0.9	0.3	45.3	59.7
New Zealand	702	31.1	16.3	26.7	31.1	22.7	2.3	0.8	28.2	34.3
Norway	588	33.9	9.8	27.7	33.9	24.6	3.2	0.8	29.4	37.8
Qatar	1011	22.3	23.3	34.6	22.3	10.7	6.7	2.4	22.6	22.1
Russian Federation	632	33.5	17.4	40.4	33.5	5.3	2.3	1.1	27.2	39.4
Scotland	550	21.4	10.9	34.8	21.4	31.1	1.9	0.0	24.0	18.6
Singapore	724	62.6	8.1	21.7	62.6	7.2	0.4	0.0	59.6	65.5
Slovak Republic	707	23.2	13.1	54.4	23.2	7.4	1.6	0.4	19.5	26.3
Slovenia	620	41.2	16.8	25.1	41.2	12.0	3.8	1.0	36.4	46.0
Sweden	679	36.1	10.6	31.8	36.1	18.6	2.5	0.4	29.7	42.0
Tunisia	590	24.6	15.0	35.2	24.6	3.3	16.5	5.4	23.9	25.2
Ukraine	616	32.7	16.5	43.5	32.7	4.8	1.9	0.5	28.0	37.0
United States	1109	34.9	11.3	37.2	34.9	15.0	1.6	0.1	30.2	40.3
Yemen	832	28.3	11.2	33.1	28.3	12.5	8.2	6.8	28.0	28.4
International Avg.	637	32.8	15.3	33.5	32.8	12.4	4.5	1.5	30.0	35.5
Alberta, Canada	581	34.9	12.4	33.3	34.9	16.7	2.5	0.2	31.1	38.4
British Columbia, Canada	575	31.3	10.6	32.9	31.3	22.4	2.8	0.1	32.0	30.6
Dubai, UAE	431	41.4	14.5	28.3	41.4	10.8	3.9	1.1	42.3	40.6
Massachusetts, US	246	30.5	10.7	34.5	30.5	19.3	4.2	0.8	36.6	23.8
Minnesota, US	266	34.9	11.5	29.8	34.9	21.6	2.0	0.3	36.1	33.4
Ontario, Canada	491	36.7	11.4	35.0	36.7	12.7	3.6	0.6	34.3	38.4
Quebec, Canada	543	24.6	15.0	37.0	24.6	19.3	3.8	0.2	20.9	28.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031414A - S03\_05A)  
 Label: Uses of water as ice  
 Type: CR Key: -

COUNTRY	N	10	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	595	9.6	1.3	12.6	38.3	33.9	4.3	10.9	11.3	10.6
Armenia	583	41.7	6.9	3.9	12.0	34.0	1.5	48.6	52.6	44.7
Australia	596	73.2	1.0	10.7	7.9	6.3	0.8	74.2	75.0	73.4
Austria	704	64.8	2.1	4.9	11.8	16.3	0.1	66.9	61.6	71.7
Chinese Taipei	589	49.3	11.6	26.3	7.7	5.3	0.0	60.8	63.0	58.5
Colombia	685	38.2	0.1	8.8	19.0	23.4	10.5	38.4	39.9	37.0
Czech Republic	612	74.0	0.7	4.5	6.7	13.8	0.3	74.6	73.4	75.8
Denmark	513	59.5	0.3	5.2	15.5	17.4	2.1	59.8	58.8	60.7
El Salvador	598	44.2	1.6	5.5	16.6	26.2	5.9	45.9	46.1	45.7
England	615	79.8	0.0	8.3	5.5	5.9	0.5	79.8	79.8	79.8
Georgia	595	20.0	0.9	12.9	16.7	45.3	4.3	20.9	25.4	16.6
Germany	744	68.6	0.6	6.9	12.7	10.7	0.5	69.2	68.2	70.2
Hong Kong SAR	550	81.8	1.4	4.8	7.6	4.4	0.0	83.2	85.2	81.2
Hungary	574	72.5	0.0	10.8	6.1	9.0	1.6	72.5	71.6	73.5
Iran, Islamic Rep. of	549	51.3	0.7	10.1	14.4	20.2	3.3	52.1	59.9	44.8
Italy	637	55.7	7.3	8.8	13.9	13.7	0.6	63.0	63.9	62.1
Japan	641	66.6	5.5	5.4	16.9	5.5	0.1	72.1	74.4	70.0
Kazakhstan	573	45.0	2.9	22.2	20.9	9.0	0.0	47.9	49.4	46.3
Kuwait	536	13.3	0.3	11.0	33.6	40.3	1.6	13.6	16.6	10.6
Latvia	557	62.1	17.9	4.8	7.4	7.9	0.0	80.0	88.0	72.7
Lithuania	570	65.2	3.2	13.2	8.1	9.6	0.7	68.4	70.9	65.7
Morocco	551	15.2	0.6	7.5	25.3	44.8	6.5	15.8	19.0	13.2
Netherlands	480	51.6	2.8	11.3	25.9	8.2	0.3	54.3	54.3	54.3
New Zealand	702	65.7	0.0	15.8	11.3	6.4	0.8	65.7	68.2	63.0
Norway	588	48.4	1.1	11.5	18.4	18.7	2.0	49.4	52.6	46.7
Qatar	1012	17.7	0.3	18.7	29.0	31.0	3.3	18.0	19.6	16.3
Russian Federation	632	68.2	6.8	12.1	3.0	8.7	1.2	75.1	76.1	74.1
Scotland	550	69.8	0.0	9.3	9.9	10.9	0.1	69.8	69.6	70.0
Singapore	724	77.8	0.0	11.6	8.9	1.7	0.0	77.8	79.3	76.3
Slovak Republic	707	57.9	1.3	6.1	13.3	21.0	0.4	59.2	57.3	60.7
Slovenia	620	80.6	1.4	4.9	5.7	6.1	1.3	82.0	87.0	77.0
Sweden	679	59.6	3.9	5.5	20.2	10.0	0.7	63.6	64.4	62.7
Tunisia	590	16.8	0.3	8.6	43.2	23.5	7.5	17.1	20.3	14.6
Ukraine	616	45.6	0.6	16.1	10.7	26.4	0.5	46.3	50.5	42.4
United States	1109	76.7	0.0	13.8	7.1	2.3	0.1	76.7	79.7	73.3
Yemen	833	5.8	0.3	3.5	49.4	33.9	7.2	6.0	6.4	5.7
International Avg.	639	52.6	2.4	9.9	16.1	17.0	2.0	55.0	56.6	53.4
Alberta, Canada	581	77.8	1.4	8.3	7.2	5.0	0.3	79.2	77.0	81.2
British Columbia, Canada	575	79.6	0.7	8.4	5.3	5.9	0.2	80.3	83.2	77.7
Dubai, UAE	431	47.0	1.2	14.8	17.0	18.2	1.8	48.2	56.3	41.4
Massachusetts, US	246	89.2	0.0	4.8	2.5	1.8	1.8	89.2	88.6	89.8
Minnesota, US	266	78.8	0.0	11.5	7.8	0.8	1.1	78.8	79.3	78.1
Ontario, Canada	491	79.3	0.2	7.6	6.1	4.0	2.8	79.5	78.3	80.3
Quebec, Canada	543	67.3	0.0	11.1	11.5	9.3	0.7	67.3	72.1	62.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031414B - S03\_05B)  
 Label: Uses of water as liquid  
 Type: CR Key: -

COUNTRY	N	10	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	595	12.8	0.3	13.0	34.3	34.5	5.2	13.1	14.6	11.8
Armenia	584	42.8	9.0	2.9	13.8	29.7	1.9	51.8	57.4	46.4
Australia	596	67.5	0.0	3.3	19.2	8.7	1.4	67.5	70.3	64.5
Austria	704	76.5	0.0	2.6	4.0	16.9	0.1	76.5	73.5	79.3
Chinese Taipei	589	61.7	1.6	22.6	8.3	5.9	0.0	63.2	65.4	61.0
Colombia	685	43.9	0.1	3.3	21.1	17.4	14.0	44.1	44.5	43.7
Czech Republic	612	65.1	0.1	5.3	11.2	17.7	0.6	65.2	61.3	69.2
Denmark	513	58.3	1.0	1.1	17.8	19.7	2.1	59.2	61.0	57.6
El Salvador	598	39.1	1.2	4.8	24.8	22.9	7.3	40.2	42.6	38.1
England	615	74.6	0.0	5.4	12.9	6.3	0.9	74.6	74.3	74.8
Georgia	595	22.6	0.4	8.4	13.0	50.3	5.3	23.0	26.2	20.0
Germany	744	74.3	0.0	4.6	8.1	12.0	0.9	74.3	76.4	72.3
Hong Kong SAR	550	81.0	1.1	2.7	10.7	4.5	0.0	82.1	84.0	80.3
Hungary	574	75.1	0.0	5.7	8.4	9.3	1.6	75.1	72.0	78.4
Iran, Islamic Rep. of	549	48.8	0.0	6.5	19.4	21.0	4.3	48.8	52.9	45.0
Italy	637	64.4	2.6	5.9	11.9	14.1	1.1	67.0	66.6	67.3
Japan	641	65.5	0.0	2.2	22.9	9.3	0.1	65.5	71.4	59.8
Kazakhstan	573	62.1	0.0	11.4	19.2	7.3	0.0	62.1	64.5	59.5
Kuwait	536	15.2	0.5	6.0	32.8	42.7	2.9	15.7	20.2	11.3
Latvia	557	84.2	1.3	2.9	6.3	5.0	0.3	85.6	93.8	78.1
Lithuania	570	73.0	0.4	8.5	7.5	9.5	1.0	73.4	77.3	69.3
Morocco	551	19.2	0.7	5.1	24.0	41.5	9.5	19.9	23.4	17.1
Netherlands	480	47.2	0.0	6.9	35.9	9.7	0.4	47.2	44.1	50.2
New Zealand	702	63.1	0.0	7.4	21.9	6.7	0.8	63.1	64.0	62.2
Norway	588	57.8	0.3	4.6	11.7	22.9	2.7	58.1	56.2	59.7
Qatar	1012	19.0	0.0	12.0	32.1	33.5	3.5	19.0	22.3	15.5
Russian Federation	632	78.4	0.5	6.3	4.7	9.0	1.2	78.9	81.8	76.2
Scotland	550	62.6	0.0	5.2	18.6	12.8	0.7	62.6	61.6	63.7
Singapore	724	75.7	0.0	8.5	14.5	1.3	0.0	75.7	75.6	75.7
Slovak Republic	707	63.0	0.2	2.9	14.4	19.1	0.4	63.2	62.0	64.2
Slovenia	620	80.1	0.6	2.6	8.6	6.5	1.5	80.7	85.7	75.8
Sweden	679	68.4	0.3	3.9	16.2	10.2	0.9	68.7	73.1	64.8
Tunisia	590	21.3	0.3	4.0	41.1	23.5	9.8	21.6	23.0	20.5
Ukraine	616	47.7	1.3	8.5	13.6	27.5	1.4	49.0	52.6	45.6
United States	1109	77.3	0.0	9.6	11.3	1.5	0.2	77.3	80.3	73.9
Yemen	833	6.0	0.3	2.0	49.6	34.2	7.9	6.3	6.9	5.8
International Avg.	639	55.4	0.7	6.1	17.9	17.3	2.6	56.1	57.8	54.4
Alberta, Canada	581	75.2	0.7	5.1	12.6	6.0	0.3	76.0	73.0	78.7
British Columbia, Canada	575	76.7	0.6	5.4	11.9	5.1	0.3	77.3	79.3	75.5
Dubai, UAE	431	50.1	1.3	10.1	19.1	17.1	2.2	51.4	61.0	43.2
Massachusetts, US	246	82.0	0.0	4.3	9.2	2.7	1.8	82.0	80.7	83.4
Minnesota, US	266	76.4	0.0	8.0	12.7	1.8	1.1	76.4	76.2	76.7
Ontario, Canada	491	75.5	0.5	5.5	10.7	4.8	3.0	76.1	78.9	74.1
Quebec, Canada	543	69.4	0.0	7.3	11.7	10.8	0.7	69.4	73.1	65.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031078 - S03\_06)  
 Label: Beans and heated metal ruler  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	571	35.5	35.5	19.9	10.4	22.5	6.2	5.5	34.3	36.4
Armenia	577	55.5	55.5	11.2	1.8	16.5	13.1	2.0	51.7	59.2
Australia	596	58.7	58.7	14.8	7.8	15.9	1.3	1.4	52.1	65.9
Austria	704	63.1	63.1	11.7	3.8	18.9	2.4	0.1	63.4	62.8
Chinese Taipei	589	64.9	64.9	10.0	3.7	20.8	0.6	0.0	65.7	64.0
Colombia	685	38.9	38.9	11.0	6.3	23.8	6.0	14.0	37.7	40.0
Czech Republic	612	69.0	69.0	14.3	4.7	9.1	2.2	0.8	66.6	71.5
Denmark	510	62.2	62.2	11.5	6.1	12.0	5.6	2.7	58.0	66.1
El Salvador	598	36.1	36.1	13.1	7.4	31.4	4.5	7.6	30.8	40.8
England	615	66.5	66.5	13.8	6.2	11.6	0.9	1.0	65.0	68.1
Georgia	594	41.0	41.0	18.6	4.7	22.6	7.4	5.7	40.8	41.1
Germany	744	64.0	64.0	11.1	5.3	16.1	2.6	0.9	63.3	64.6
Hong Kong SAR	550	75.2	75.2	9.5	3.4	11.1	0.8	0.0	75.6	74.8
Hungary	574	67.2	67.2	8.5	4.9	15.4	2.3	1.7	67.2	67.2
Iran, Islamic Rep. of	549	23.5	23.5	35.0	5.9	25.6	4.4	5.6	26.0	21.3
Italy	634	64.6	64.6	12.5	3.6	15.5	2.5	1.3	58.8	70.0
Japan	641	91.8	91.8	4.4	2.5	0.6	0.3	0.5	91.9	91.6
Kazakhstan	573	66.7	66.7	12.0	4.4	16.6	0.3	0.0	72.4	60.9
Kuwait	536	35.3	35.3	33.5	8.8	13.3	6.2	2.9	37.7	33.0
Latvia	557	68.9	68.9	10.0	6.4	12.1	2.3	0.3	65.9	71.6
Lithuania	570	63.1	63.1	9.2	6.3	17.9	2.4	1.2	59.2	67.1
Morocco	526	23.9	23.9	27.1	11.8	20.6	7.4	9.2	26.5	21.5
Netherlands	480	65.4	65.4	13.8	7.0	12.5	0.8	0.4	64.9	66.0
New Zealand	702	57.6	57.6	16.4	6.4	16.8	1.9	1.0	56.2	59.1
Norway	588	52.9	52.9	12.4	12.2	16.7	3.0	2.7	52.0	53.7
Qatar	1011	39.6	39.6	32.1	10.5	10.5	3.6	3.8	38.1	41.1
Russian Federation	632	70.4	70.4	10.9	3.4	12.1	1.9	1.2	65.5	74.9
Scotland	550	58.1	58.1	16.7	6.0	16.2	2.3	0.7	57.5	58.7
Singapore	724	87.9	87.9	4.2	2.2	5.7	0.0	0.0	88.2	87.6
Slovak Republic	707	62.6	62.6	12.3	3.9	17.7	2.6	0.9	60.7	64.1
Slovenia	620	69.8	69.8	8.8	4.6	11.6	3.2	2.0	66.7	72.8
Sweden	679	55.4	55.4	16.7	10.2	15.7	1.1	0.9	54.6	56.1
Tunisia	590	30.7	30.7	18.8	13.3	14.1	12.4	10.7	33.5	28.5
Ukraine	616	64.5	64.5	10.8	5.6	16.1	1.5	1.5	62.1	66.7
United States	1109	65.8	65.8	16.0	4.0	13.1	0.9	0.2	63.0	68.9
Yemen	831	19.6	19.6	35.7	18.6	9.1	9.2	7.7	19.3	19.8
International Avg.	637	56.6	56.6	15.2	6.5	15.5	3.5	2.7	55.4	57.7
Alberta, Canada	581	63.4	63.4	13.6	5.2	15.6	1.6	0.5	63.6	63.2
British Columbia, Canada	575	60.5	60.5	14.8	7.5	14.8	2.0	0.3	62.6	58.6
Dubai, UAE	431	52.2	52.2	17.6	5.2	18.7	4.0	2.4	53.6	50.9
Massachusetts, US	246	63.2	63.2	16.1	1.9	14.7	1.9	2.1	64.6	61.7
Minnesota, US	266	65.5	65.5	14.4	2.0	16.2	0.4	1.5	65.1	65.9
Ontario, Canada	491	59.6	59.6	18.8	3.9	13.8	1.0	3.0	60.8	58.8
Quebec, Canada	543	61.3	61.3	10.0	7.4	18.6	2.0	0.7	59.1	63.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Applying (S031009 - S03\_07)  
 Label: Bubbles rise in water  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	596	9.5	18.1	1.4	7.4	1.3	26.6	29.7	6.1	28.9	29.2	28.6
Armenia	583	24.3	10.6	14.5	8.0	0.2	12.1	27.8	2.6	49.3	48.9	49.8
Australia	596	19.7	47.5	0.0	7.1	4.9	15.5	3.5	1.9	67.2	64.7	69.8
Austria	704	17.2	48.6	0.0	5.1	4.7	8.1	16.2	0.1	65.8	58.6	72.3
Chinese Taipei	589	14.0	63.2	0.1	3.9	3.0	9.0	6.9	0.0	77.3	80.1	74.4
Colombia	685	6.7	21.5	0.0	17.0	1.2	20.6	16.4	16.6	28.3	20.8	35.2
Czech Republic	612	18.3	52.1	0.0	5.2	2.8	10.9	9.7	1.0	70.4	69.3	71.6
Denmark	513	20.0	54.2	0.0	4.4	2.6	11.0	5.2	2.7	74.2	72.6	75.7
El Salvador	598	2.8	23.6	0.1	24.3	1.2	17.9	21.2	8.7	26.6	22.0	30.8
England	615	14.6	51.6	0.0	5.8	3.4	16.4	7.3	1.0	66.1	62.5	69.9
Georgia	594	4.6	18.0	2.5	23.9	0.9	15.3	28.5	6.3	25.1	25.2	25.0
Germany	744	18.4	33.6	0.0	13.1	6.2	14.6	12.4	1.8	52.0	47.0	56.8
Hong Kong SAR	550	21.6	25.8	0.4	2.9	2.2	37.6	9.2	0.3	47.8	47.9	47.7
Hungary	574	25.4	33.6	0.0	10.3	2.5	15.5	10.4	2.3	59.0	57.3	60.8
Iran, Islamic Rep. of	549	16.1	14.6	0.2	15.9	0.2	23.0	23.5	6.5	30.9	29.7	31.9
Italy	637	24.4	21.9	0.4	14.1	2.9	18.0	16.6	1.8	46.7	43.1	50.0
Japan	641	19.5	42.4	3.0	6.3	0.2	24.1	4.0	0.5	65.0	61.8	68.0
Kazakhstan	573	16.7	54.6	0.0	8.1	3.6	13.0	4.0	0.0	71.3	68.7	74.0
Kuwait	536	5.7	16.1	1.1	3.7	0.5	32.5	37.0	3.4	22.9	26.3	19.6
Latvia	.	.	.	.	.	.	.	.	.	.	.	.
Lithuania	570	6.3	54.4	0.0	13.6	0.6	13.4	10.5	1.2	60.7	60.9	60.5
Morocco	553	9.6	11.9	1.6	3.2	0.9	16.2	46.1	10.4	23.1	27.8	19.3
Netherlands	480	15.4	43.9	0.0	7.2	3.7	27.1	2.2	0.4	59.4	53.8	64.8
New Zealand	702	16.2	47.9	0.0	12.0	4.1	12.2	6.4	1.2	64.1	60.1	68.3
Norway	588	11.5	51.0	0.0	10.2	5.3	8.5	10.1	3.4	62.5	62.3	62.7
Qatar	1011	1.7	19.0	0.0	11.2	0.0	21.4	42.3	4.4	20.7	23.4	17.9
Russian Federation	631	25.3	53.3	0.0	4.8	0.6	7.7	6.1	2.2	78.6	79.2	78.0
Scotland	550	9.8	43.9	0.0	11.0	3.5	17.7	12.9	1.1	53.7	54.6	52.7
Singapore	724	17.7	54.6	0.0	3.5	0.2	22.6	1.3	0.0	72.3	71.7	72.9
Slovak Republic	707	25.1	38.6	0.0	10.7	3.2	8.4	13.1	0.9	63.7	57.6	68.8
Slovenia	620	26.8	39.8	0.0	9.2	1.6	13.8	6.2	2.6	66.6	60.8	72.4
Sweden	679	12.6	37.2	0.6	6.4	5.1	32.4	4.8	0.9	50.4	48.1	52.4
Tunisia	590	3.4	7.0	0.4	4.0	4.1	47.9	20.8	12.3	10.9	11.2	10.7
Ukraine	616	13.6	49.9	1.7	9.2	0.3	11.2	12.5	1.5	65.2	62.2	68.0
United States	1109	13.7	47.4	0.1	7.3	4.7	22.0	4.7	0.2	61.1	59.7	62.7
Yemen	833	6.2	3.1	5.2	0.8	1.4	32.1	42.1	9.1	14.5	15.6	13.7
International Avg.	641	14.7	35.8	1.0	8.9	2.4	18.8	15.2	3.3	51.5	49.8	53.1
Alberta, Canada	581	25.2	39.0	0.3	6.4	5.8	15.3	7.5	0.5	64.5	62.9	66.0
British Columbia, Canada	575	23.3	41.1	0.7	7.1	6.2	14.9	6.3	0.4	65.1	67.9	62.5
Dubai, UAE	431	7.9	34.8	0.5	8.0	4.0	23.1	19.4	2.4	43.2	44.2	42.3
Massachusetts, US	246	19.5	39.7	0.0	8.3	7.5	16.7	5.9	2.4	59.2	55.8	63.0
Minnesota, US	266	18.0	41.4	0.0	8.0	4.2	23.7	3.2	1.5	59.4	60.1	58.4
Ontario, Canada	491	20.6	44.5	0.0	5.4	6.7	14.8	4.6	3.4	65.1	62.5	66.9
Quebec, Canada	543	19.1	38.4	0.0	5.8	2.8	25.6	7.5	0.7	57.6	58.5	56.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S031401 - S03\_08)  
 Label: Main reason we see the Moon  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	19.4	13.2	19.4	20.3	36.0	3.6	7.5	19.0	19.7
Armenia	579	42.6	7.7	42.6	13.9	24.1	8.1	3.5	43.4	41.9
Australia	596	52.3	8.6	52.3	17.6	18.6	1.1	1.9	50.1	54.6
Austria	704	65.6	6.2	65.6	8.8	16.5	2.6	0.3	65.7	65.4
Chinese Taipei	589	80.9	11.8	80.9	2.4	4.4	0.5	0.0	79.0	82.8
Colombia	685	14.5	16.2	14.5	26.0	22.7	2.9	17.7	10.7	18.1
Czech Republic	612	34.1	6.0	34.1	25.3	30.8	2.3	1.5	32.3	35.8
Denmark	511	43.5	10.7	43.5	22.1	19.1	1.4	3.3	38.6	48.1
El Salvador	598	17.7	22.5	17.7	23.2	23.7	3.0	9.9	17.1	18.3
England	615	66.8	7.5	66.8	15.5	8.7	0.4	1.2	61.2	72.6
Georgia	594	30.8	12.7	30.8	23.5	21.7	4.1	7.2	27.8	33.6
Germany	744	47.3	4.0	47.3	18.1	25.5	2.9	2.2	45.1	49.4
Hong Kong SAR	550	72.6	12.0	72.6	10.0	5.1	0.0	0.3	67.6	77.3
Hungary	574	37.8	3.9	37.8	29.5	24.2	2.1	2.5	33.9	42.0
Iran, Islamic Rep. of	549	38.9	11.2	38.9	15.6	22.1	3.7	8.4	32.4	45.0
Italy	630	35.9	11.0	35.9	22.3	26.6	2.1	2.1	30.0	41.4
Japan	641	56.1	19.8	56.1	8.5	14.4	0.6	0.6	55.6	56.6
Kazakhstan	573	33.9	8.7	33.9	30.8	26.4	0.2	0.0	30.5	37.4
Kuwait	536	40.1	17.2	40.1	15.3	17.1	5.7	4.6	39.6	40.7
Latvia	557	55.0	4.6	55.0	20.1	18.0	1.8	0.5	50.4	59.1
Lithuania	570	54.6	5.4	54.6	19.9	15.8	3.2	1.2	54.6	54.7
Morocco	531	23.0	9.1	23.0	18.1	33.8	4.6	11.4	25.1	21.0
Netherlands	480	69.4	8.4	69.4	9.8	9.6	2.3	0.4	64.6	74.2
New Zealand	702	45.1	11.8	45.1	21.1	19.4	1.1	1.3	39.9	50.6
Norway	588	66.5	9.1	66.5	7.8	10.9	1.9	3.8	61.9	70.5
Qatar	1010	29.0	18.7	29.0	19.2	24.7	3.3	5.1	26.4	31.8
Russian Federation	631	33.2	10.4	33.2	22.3	28.9	2.4	2.8	30.6	35.6
Scotland	550	47.5	11.8	47.5	19.7	17.6	1.1	2.3	46.8	48.3
Singapore	724	81.0	10.2	81.0	6.2	2.4	0.1	0.0	79.4	82.6
Slovak Republic	707	71.2	5.6	71.2	9.7	10.5	1.9	1.1	64.8	76.6
Slovenia	620	45.4	8.3	45.4	20.1	20.5	3.1	2.6	39.9	50.9
Sweden	679	69.9	7.3	69.9	8.5	11.3	1.8	1.1	64.4	74.9
Tunisia	590	22.9	11.2	22.9	17.2	21.2	13.1	14.4	20.4	25.0
Ukraine	616	22.7	6.7	22.7	35.7	32.0	1.4	1.5	18.7	26.4
United States	1109	51.9	15.0	51.9	19.8	11.0	1.9	0.5	47.3	57.1
Yemen	833	36.8	9.6	36.8	19.5	19.7	4.0	10.3	35.4	37.9
International Avg.	637	46.0	10.4	46.0	17.9	19.3	2.7	3.8	43.1	48.8
Alberta, Canada	581	65.6	8.9	65.6	14.4	8.0	2.6	0.5	61.8	69.2
British Columbia, Canada	575	64.6	6.5	64.6	15.5	11.1	1.8	0.5	63.1	66.1
Dubai, UAE	431	53.3	9.0	53.3	18.5	13.0	3.1	3.1	53.5	53.1
Massachusetts, US	246	51.8	10.2	51.8	19.4	11.2	4.7	2.8	50.0	53.8
Minnesota, US	266	50.8	12.3	50.8	18.5	15.6	1.2	1.5	49.3	52.8
Ontario, Canada	491	60.1	11.1	60.1	19.5	5.2	0.7	3.5	55.1	63.6
Quebec, Canada	543	36.3	6.1	36.3	29.5	24.7	2.6	0.8	34.5	38.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031384A - S03\_09A)  
 Label: Two seasons/ name  
 Type: CR Key: -

COUNTRY	N	10	19	70	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	596	62.7	2.3	2.4	9.8	14.8	8.0	65.0	69.6	61.2
Armenia	583	67.0	8.9	0.3	2.7	17.3	3.8	75.9	80.2	71.6
Australia	596	89.4	0.0	0.0	3.7	4.8	2.2	89.4	90.2	88.5
Austria	704	81.3	0.0	0.3	14.2	3.5	0.6	81.3	81.6	81.0
Chinese Taipei	589	93.2	0.1	0.6	3.4	2.8	0.0	93.3	96.5	89.9
Colombia	685	30.7	0.0	2.0	26.9	21.7	18.7	30.7	29.2	32.2
Czech Republic	612	86.4	1.0	0.1	5.4	5.1	1.9	87.5	91.7	83.4
Denmark	513	87.1	0.0	0.3	6.5	2.6	3.4	87.1	87.9	86.4
El Salvador	598	42.6	0.4	1.4	24.3	20.1	11.3	43.0	43.0	42.9
England	615	90.6	0.0	0.3	3.7	4.0	1.3	90.6	93.4	87.7
Georgia	595	64.6	0.4	0.0	12.4	13.7	8.8	65.1	71.4	59.0
Germany	744	79.9	0.0	0.6	13.1	3.7	2.7	79.9	79.5	80.3
Hong Kong SAR	550	92.6	0.0	0.5	3.6	3.0	0.3	92.6	93.3	91.9
Hungary	574	80.6	0.0	0.3	8.5	7.9	2.7	80.6	82.3	78.9
Iran, Islamic Rep. of	549	67.6	0.0	3.5	7.4	12.3	9.2	67.6	69.8	65.6
Italy	637	85.5	0.0	0.1	5.0	6.8	2.5	85.5	84.0	86.8
Japan	641	91.7	0.0	2.3	1.7	3.6	0.6	91.7	92.5	91.1
Kazakhstan	573	94.0	0.0	0.0	3.3	2.8	0.0	94.0	93.3	94.7
Kuwait	536	56.9	0.0	0.4	14.1	23.6	5.0	56.9	67.5	46.3
Latvia	557	91.6	4.2	0.0	2.2	1.4	0.6	95.8	98.1	93.7
Lithuania	570	74.8	0.0	0.4	13.7	9.3	1.9	74.8	78.7	70.7
Morocco	553	44.5	0.4	1.6	15.0	26.2	12.3	44.9	47.1	43.3
Netherlands	480	51.5	0.0	0.1	39.9	8.0	0.4	51.5	52.9	50.2
New Zealand	702	89.2	0.0	0.1	4.1	5.1	1.5	89.2	90.6	87.8
Norway	588	69.6	0.1	0.7	21.0	4.6	4.1	69.7	72.9	66.9
Qatar	1011	47.6	0.2	0.3	22.0	24.6	5.4	47.8	51.4	44.0
Russian Federation	632	88.3	0.0	0.0	3.9	3.8	4.0	88.3	90.9	86.0
Scotland	550	85.1	0.2	1.4	5.4	5.2	2.6	85.3	87.8	82.7
Singapore	724	72.7	0.0	12.0	14.0	1.3	0.0	72.7	71.9	73.5
Slovak Republic	707	85.5	3.7	0.5	4.4	4.9	1.1	89.2	91.4	87.4
Slovenia	620	83.3	0.0	0.0	10.0	4.0	2.7	83.3	86.4	80.1
Sweden	679	79.7	6.6	0.1	8.1	3.9	1.6	86.3	86.9	85.6
Tunisia	590	43.9	0.8	0.9	21.0	18.1	15.3	44.7	46.3	43.4
Ukraine	616	87.2	0.0	0.0	6.1	5.1	1.7	87.2	91.3	83.5
United States	1109	89.6	0.1	0.6	5.2	4.0	0.5	89.7	91.2	87.9
Yemen	832	32.9	0.5	1.7	34.3	20.1	10.6	33.4	36.4	31.0
International Avg.	639	73.9	0.8	1.0	11.1	9.0	4.1	74.8	76.9	72.7
Alberta, Canada	581	92.2	0.0	0.5	2.3	4.5	0.5	92.2	92.4	92.1
British Columbia, Canada	575	91.6	0.0	0.7	3.0	4.1	0.6	91.6	94.1	89.4
Dubai, UAE	431	73.1	0.8	1.6	8.7	12.2	3.6	73.9	76.1	72.1
Massachusetts, US	246	91.4	0.0	0.5	2.0	2.5	3.6	91.4	91.2	91.8
Minnesota, US	266	88.3	0.4	0.4	6.5	2.9	1.5	88.7	87.5	90.1
Ontario, Canada	491	88.5	0.0	0.9	3.4	3.3	3.9	88.5	89.8	87.6
Quebec, Canada	543	91.6	0.0	0.5	4.3	2.4	1.2	91.6	92.9	90.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S031384B - S03\_09B)  
 Label: Two seasons/ difference  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	594	21.5	4.3	2.8	5.6	16.9	32.0	17.0	28.7	31.0	26.7
Armenia	583	39.0	10.5	2.5	3.2	3.6	31.8	9.3	52.1	55.2	49.1
Australia	596	65.9	2.0	0.4	2.9	14.9	10.6	3.3	68.3	76.8	59.1
Austria	704	57.4	18.8	1.3	4.8	7.3	8.4	2.0	77.5	79.0	76.2
Chinese Taipei	589	79.7	0.4	1.2	5.9	4.5	7.1	1.2	81.4	84.0	78.7
Colombia	685	12.6	3.6	1.1	3.1	25.6	25.4	28.5	17.3	14.4	20.1
Czech Republic	612	48.3	14.8	3.5	11.0	7.9	10.1	4.3	66.7	74.5	59.0
Denmark	513	71.2	5.5	3.7	3.1	7.4	3.9	5.3	80.4	80.6	80.2
El Salvador	598	12.4	7.1	2.8	3.9	21.1	31.6	21.1	22.3	23.0	21.7
England	615	69.0	6.0	1.2	5.7	4.5	10.4	3.2	76.3	80.8	71.6
Georgia	595	37.8	1.3	1.9	5.2	11.4	27.5	14.9	41.0	50.3	32.1
Germany	744	59.2	10.4	3.5	3.5	11.6	7.4	4.4	73.1	72.2	74.0
Hong Kong SAR	550	70.5	5.9	2.0	3.0	10.9	6.6	1.1	78.4	80.6	76.3
Hungary	574	52.5	12.7	1.1	4.1	10.5	12.3	6.8	66.3	65.8	66.8
Iran, Islamic Rep. of	549	56.1	1.9	0.2	3.2	6.3	17.8	14.5	58.2	63.1	53.7
Italy	637	64.9	4.8	2.4	7.0	5.0	10.0	6.1	72.0	69.3	74.6
Japan	641	52.9	23.2	5.1	7.3	4.2	4.8	2.4	81.2	82.8	79.6
Kazakhstan	573	58.7	8.0	8.2	1.4	6.0	16.4	1.3	74.9	79.4	70.3
Kuwait	536	34.8	0.1	0.6	0.8	8.9	39.0	15.8	35.5	46.7	24.3
Latvia	557	54.9	24.1	6.5	0.5	9.7	2.9	1.4	85.4	91.6	79.9
Lithuania	570	49.6	6.1	1.8	1.7	11.7	22.8	6.3	57.5	64.0	50.7
Morocco	553	10.3	1.2	2.8	2.4	12.9	47.1	23.3	14.3	16.8	12.0
Netherlands	480	36.7	4.6	3.0	1.5	39.5	11.7	2.9	44.4	45.2	43.6
New Zealand	702	63.6	3.9	2.5	3.5	11.8	11.6	3.0	70.0	74.2	65.6
Norway	588	39.2	18.5	1.9	4.0	17.6	12.5	6.1	59.7	64.0	55.9
Qatar	1011	23.1	1.0	1.1	1.7	13.1	40.8	19.2	25.2	31.3	18.7
Russian Federation	632	68.1	10.0	0.2	2.3	5.3	8.7	5.3	78.3	81.8	75.0
Scotland	550	53.7	12.1	2.1	5.2	8.2	13.9	4.7	68.0	73.1	62.7
Singapore	724	59.6	6.4	0.3	10.1	17.4	5.7	0.5	66.3	66.5	66.1
Slovak Republic	707	54.7	7.5	3.2	9.5	9.7	12.4	3.0	65.4	66.3	64.6
Slovenia	620	53.9	17.0	3.7	3.8	11.0	7.3	3.3	74.5	82.8	66.3
Sweden	679	66.2	1.0	11.2	3.0	9.6	4.8	4.1	78.4	81.2	75.9
Tunisia	590	29.2	1.1	0.6	1.8	17.3	27.7	22.5	30.8	30.1	31.3
Ukraine	616	50.6	4.8	4.0	8.0	3.6	24.8	4.2	59.4	67.1	52.4
United States	1109	50.8	3.8	14.1	4.6	16.4	7.7	2.7	68.7	73.1	63.6
Yemen	832	6.7	0.4	0.7	0.2	14.9	56.6	20.6	7.8	6.8	8.5
International Avg.	639	48.2	7.4	2.9	4.1	11.6	17.6	8.2	58.5	61.8	55.2
Alberta, Canada	581	62.6	12.6	2.7	5.0	8.8	5.6	2.7	77.9	79.6	76.3
British Columbia, Canada	575	61.5	12.8	1.8	6.3	9.2	6.6	1.9	76.0	82.2	70.5
Dubai, UAE	431	44.6	3.1	4.3	3.4	13.0	22.2	9.5	51.9	56.5	48.1
Massachusetts, US	246	51.9	4.6	22.4	5.0	8.0	3.8	4.3	78.8	82.0	75.2
Minnesota, US	266	49.2	4.0	17.9	1.9	18.0	5.7	3.2	71.1	74.1	67.3
Ontario, Canada	491	67.2	9.3	2.2	2.6	7.9	5.2	5.6	78.7	79.4	78.2
Quebec, Canada	543	74.4	9.2	0.6	2.7	5.4	5.9	1.8	84.2	86.8	81.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041165 - S04\_01)  
 Label: Animal with an external skeleton  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	527	49.8	16.7	49.8	18.0	8.9	6.3	0.3	52.0	47.5
Armenia	576	42.4	26.9	42.4	22.1	3.2	4.3	1.1	43.9	40.9
Australia	601	72.2	3.2	72.2	6.3	16.6	1.7	0.0	67.7	76.5
Austria	694	59.8	14.4	59.8	12.5	9.3	3.8	0.1	60.7	59.1
Chinese Taipei	587	25.0	52.3	25.0	11.3	6.6	4.8	0.0	24.6	25.3
Colombia	684	17.1	33.8	17.1	26.3	16.0	5.2	1.6	19.7	14.8
Czech Republic	608	18.4	59.2	18.4	7.9	6.5	8.0	0.0	21.4	15.8
Denmark	491	45.7	9.6	45.7	11.5	31.7	1.4	0.2	43.9	47.5
El Salvador	593	49.4	18.4	49.4	17.1	11.4	3.3	0.4	49.4	49.3
England	625	67.4	3.4	67.4	11.7	16.2	1.3	0.0	68.9	65.9
Georgia	573	56.7	22.7	56.7	11.5	4.8	3.3	1.0	61.7	52.5
Germany	734	56.7	17.6	56.7	12.2	10.8	2.8	0.0	54.7	58.4
Hong Kong SAR	545	49.2	25.7	49.2	18.0	6.2	0.9	0.0	46.9	51.3
Hungary	578	35.1	21.8	35.1	18.6	16.4	7.4	0.7	35.5	34.8
Iran, Islamic Rep. of	552	21.3	26.5	21.3	24.6	20.7	6.7	0.3	14.8	26.9
Italy	615	64.3	14.8	64.3	11.8	7.4	1.6	0.0	65.2	63.5
Japan	636	15.0	56.1	15.0	15.3	7.2	6.2	0.2	16.8	13.2
Kazakhstan	570	65.5	9.1	65.5	18.3	7.0	0.1	0.0	63.6	67.6
Kuwait	553	30.7	21.3	30.7	20.4	13.5	12.2	1.7	32.9	28.6
Latvia	550	68.4	13.0	68.4	9.3	6.7	2.6	0.0	71.3	65.9
Lithuania	574	38.8	31.7	38.8	20.8	4.2	4.4	0.0	35.7	41.6
Morocco	452	35.3	33.3	35.3	13.3	12.3	4.9	0.9	33.6	36.7
Netherlands	477	65.4	8.7	65.4	10.6	14.8	0.5	0.0	66.0	64.9
New Zealand	694	56.1	5.2	56.1	15.9	21.8	0.8	0.1	56.6	55.7
Norway	587	44.8	16.2	44.8	14.5	22.2	2.2	0.1	43.7	45.9
Qatar	1007	35.0	24.2	35.0	15.7	18.0	6.5	0.6	38.1	31.7
Russian Federation	639	69.8	8.7	69.8	15.1	5.3	0.8	0.3	71.9	68.1
Scotland	547	64.1	5.1	64.1	10.5	18.1	2.0	0.1	63.9	64.4
Singapore	716	68.6	10.0	68.6	10.9	10.0	0.6	0.0	69.3	67.9
Slovak Republic	705	42.9	33.3	42.9	15.6	5.1	3.1	0.1	42.5	43.2
Slovenia	623	33.1	23.2	33.1	11.2	23.8	8.6	0.0	34.9	31.4
Sweden	668	62.0	7.6	62.0	15.5	12.6	2.0	0.3	66.5	57.6
Tunisia	592	25.6	26.9	25.6	13.7	8.7	24.2	0.9	27.0	24.3
Ukraine	620	38.3	40.5	38.3	11.7	5.8	3.7	0.0	40.9	35.9
United States	1120	69.6	5.4	69.6	10.4	14.3	0.3	0.0	67.6	72.1
Yemen	834	36.6	16.3	36.6	20.6	11.5	14.3	0.7	35.7	37.4
International Avg.	632	47.1	21.2	47.1	14.7	12.1	4.5	0.3	47.5	46.8
Alberta, Canada	582	73.3	5.2	73.3	7.2	12.8	1.6	0.0	71.0	75.4
British Columbia, Canada	577	61.9	6.6	61.9	8.8	21.4	1.3	0.1	61.0	62.7
Dubai, UAE	440	56.3	11.9	56.3	13.9	12.9	4.4	0.6	57.6	55.3
Massachusetts, US	254	76.7	2.3	76.7	7.0	10.7	3.0	0.3	73.5	79.9
Minnesota, US	264	64.2	6.6	64.2	10.2	18.9	0.1	0.0	57.2	71.7
Ontario, Canada	491	59.7	5.5	59.7	13.3	19.8	1.1	0.6	56.8	62.1
Quebec, Canada	550	37.6	31.7	37.6	13.9	9.3	7.5	0.0	35.5	39.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041023 - S04\_02)  
 Label: One way seeds are dispersed  
 Type: CR Key: -

COUNTRY	N	10	11	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	9.6	0.9	1.6	34.6	52.8	0.5	12.1	12.8	11.3
Armenia	580	39.0	5.6	1.3	12.8	40.2	1.0	45.9	45.1	46.7
Australia	601	29.2	7.1	1.0	49.7	13.0	0.0	37.3	33.8	40.7
Austria	694	51.5	4.4	0.1	19.6	24.2	0.1	56.1	57.4	55.0
Chinese Taipei	587	26.7	10.5	1.3	37.0	24.2	0.2	38.5	38.3	38.8
Colombia	684	6.6	1.9	0.6	59.0	30.3	1.7	9.1	8.3	9.8
Czech Republic	608	39.5	4.8	0.4	26.0	29.2	0.0	44.7	48.0	41.9
Denmark	494	43.7	7.1	3.2	29.1	16.6	0.2	54.1	50.2	58.2
El Salvador	593	14.0	1.5	2.3	47.4	34.3	0.6	17.8	19.3	16.4
England	625	40.1	13.2	1.1	35.1	10.5	0.0	54.4	57.2	51.4
Georgia	573	21.1	4.6	1.0	19.6	52.6	1.0	26.8	26.9	26.7
Germany	734	49.4	6.0	0.5	24.7	19.4	0.0	55.9	53.8	57.8
Hong Kong SAR	545	41.7	10.7	0.8	30.9	15.9	0.0	53.2	50.1	56.1
Hungary	578	50.6	9.9	0.5	20.2	18.2	0.7	61.0	59.8	62.2
Iran, Islamic Rep. of	552	16.5	2.5	1.4	31.9	47.4	0.3	20.4	19.2	21.5
Italy	638	42.8	11.7	1.5	23.7	20.4	0.0	56.0	54.9	57.0
Japan	636	27.8	8.1	1.3	51.1	11.5	0.2	37.2	36.6	37.8
Kazakhstan	570	57.2	7.2	0.5	23.7	11.4	0.0	64.9	65.6	64.3
Kuwait	553	3.0	0.8	0.5	35.1	58.8	1.9	4.2	4.7	3.8
Latvia	550	44.0	6.6	1.8	34.2	13.5	0.0	52.4	58.2	47.3
Lithuania	574	48.6	8.8	1.2	23.9	17.5	0.0	58.6	57.7	59.5
Morocco	538	9.5	1.3	0.4	17.4	70.4	0.9	11.2	11.5	10.9
Netherlands	477	59.8	5.1	0.7	31.0	3.4	0.0	65.6	66.1	65.1
New Zealand	694	32.3	5.6	0.8	48.2	13.0	0.1	38.6	37.8	39.5
Norway	587	29.4	7.2	0.5	37.7	25.1	0.1	37.1	34.5	39.6
Qatar	1008	3.7	1.9	0.4	42.7	50.7	0.6	6.0	6.6	5.3
Russian Federation	639	45.8	11.1	2.8	22.4	17.5	0.3	59.8	65.4	55.4
Scotland	547	26.6	7.5	0.5	45.1	20.2	0.1	34.6	34.5	34.6
Singapore	716	31.5	11.0	1.2	52.6	3.7	0.0	43.7	41.0	46.1
Slovak Republic	705	44.8	7.8	1.6	21.6	24.1	0.1	54.1	53.8	54.5
Slovenia	623	44.5	21.5	0.5	16.6	16.9	0.0	66.6	66.9	66.2
Sweden	668	46.9	8.4	2.4	27.8	14.1	0.3	57.8	59.3	56.3
Tunisia	592	9.1	0.3	0.4	50.0	39.0	1.2	9.8	8.7	10.9
Ukraine	620	41.1	0.0	0.7	22.4	35.7	0.0	41.8	43.5	40.2
United States	1120	41.3	17.8	0.7	36.2	4.0	0.0	59.8	59.1	60.7
Yemen	834	2.6	0.7	0.0	30.8	65.2	0.7	3.2	4.3	2.4
International Avg.	637	32.5	6.7	1.0	32.6	26.8	0.4	40.3	40.3	40.3
Alberta, Canada	582	38.1	9.5	2.0	41.5	8.7	0.1	49.6	49.7	49.6
British Columbia, Canada	577	37.0	8.4	0.5	41.6	12.5	0.1	45.8	51.3	40.8
Dubai, UAE	440	16.8	4.9	2.3	41.6	33.7	0.7	24.0	28.2	20.5
Massachusetts, US	254	49.0	18.0	0.6	26.9	4.7	0.7	67.7	67.0	68.4
Minnesota, US	264	47.3	11.4	1.4	37.6	2.3	0.0	60.1	58.4	61.9
Ontario, Canada	491	38.9	13.9	0.6	36.9	9.0	0.6	53.4	57.6	49.8
Quebec, Canada	550	24.8	7.5	0.7	46.4	20.6	0.0	33.1	32.4	33.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041047 - S04\_03)  
 Label: Source of vitamins and minerals  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	506	36.4	36.4	6.8	40.2	12.9	2.9	0.9	33.8	38.7
Armenia	576	65.6	65.6	5.0	14.6	5.3	7.7	1.7	71.9	59.5
Australia	601	74.7	74.7	9.7	4.1	9.4	2.1	0.0	74.8	74.6
Austria	694	88.2	88.2	2.8	4.8	2.0	2.1	0.1	87.8	88.6
Chinese Taipei	587	80.8	80.8	6.1	8.7	2.7	1.5	0.2	84.5	76.9
Colombia	684	74.9	74.9	4.5	10.4	6.6	1.9	1.7	77.4	72.6
Czech Republic	608	92.4	92.4	0.5	4.5	0.7	1.9	0.0	93.0	91.8
Denmark	493	70.1	70.1	3.4	13.5	11.9	0.9	0.2	69.3	71.0
El Salvador	593	71.1	71.1	4.5	12.1	9.1	2.6	0.6	73.0	69.4
England	625	74.2	74.2	9.5	4.0	11.0	1.4	0.0	73.9	74.4
Georgia	573	70.9	70.9	2.7	15.1	7.7	2.6	1.0	73.5	68.7
Germany	734	87.0	87.0	2.5	4.8	2.7	3.0	0.0	86.9	87.2
Hong Kong SAR	545	71.7	71.7	15.5	9.6	2.4	0.9	0.0	72.0	71.4
Hungary	578	84.4	84.4	2.9	6.1	2.3	3.6	0.7	86.4	82.3
Iran, Islamic Rep. of	552	35.6	35.6	4.3	36.3	18.7	4.4	0.8	38.2	33.4
Italy	629	91.0	91.0	2.1	3.7	2.9	0.2	0.1	91.6	90.4
Japan	636	79.2	79.2	3.4	8.8	5.2	3.1	0.2	80.5	78.0
Kazakhstan	570	79.1	79.1	1.9	7.1	11.7	0.2	0.0	82.3	75.7
Kuwait	553	42.8	42.8	9.8	19.8	16.0	9.4	2.1	43.1	42.6
Latvia	550	82.7	82.7	2.7	10.1	3.1	1.4	0.0	80.8	84.3
Lithuania	574	80.7	80.7	4.2	6.3	2.9	5.9	0.0	79.7	81.5
Morocco	465	30.0	30.0	14.1	31.4	17.9	5.0	1.6	32.0	28.2
Netherlands	477	87.1	87.1	1.3	6.6	3.7	1.2	0.0	85.6	88.5
New Zealand	694	81.3	81.3	7.7	4.6	5.5	0.7	0.3	83.8	78.6
Norway	587	78.8	78.8	2.3	7.0	9.8	2.0	0.1	76.7	80.8
Qatar	1008	43.8	43.8	14.9	19.5	14.7	6.4	0.7	49.3	38.0
Russian Federation	639	81.9	81.9	1.4	11.3	4.4	0.7	0.3	81.8	82.0
Scotland	547	72.4	72.4	8.3	9.7	7.4	1.8	0.4	72.4	72.3
Singapore	716	85.5	85.5	6.3	3.6	4.2	0.5	0.0	86.5	84.6
Slovak Republic	705	87.9	87.9	1.8	6.6	1.2	2.1	0.4	89.1	86.8
Slovenia	623	74.7	74.7	16.1	4.1	1.7	3.3	0.0	73.9	75.6
Sweden	668	83.3	83.3	3.0	4.2	8.7	0.5	0.3	81.8	84.8
Tunisia	592	23.4	23.4	10.5	29.4	8.4	26.6	1.6	21.4	25.2
Ukraine	620	77.5	77.5	2.3	11.0	5.0	4.2	0.2	80.6	74.5
United States	1120	67.7	67.7	8.9	13.1	9.2	0.8	0.2	67.8	67.6
Yemen	834	26.0	26.0	16.4	25.8	24.7	6.2	0.9	27.3	25.0
International Avg.	632	70.4	70.4	6.1	12.0	7.6	3.4	0.5	71.2	69.6
Alberta, Canada	582	68.0	68.0	6.6	14.2	9.6	1.5	0.1	72.2	64.0
British Columbia, Canada	577	73.7	73.7	3.4	13.0	7.5	2.3	0.1	75.3	72.2
Dubai, UAE	440	71.5	71.5	6.8	9.6	9.3	1.9	1.0	72.1	70.9
Massachusetts, US	254	70.6	70.6	5.2	11.6	10.2	1.8	0.7	68.9	72.4
Minnesota, US	264	66.4	66.4	14.8	9.1	9.3	0.4	0.0	65.6	67.1
Ontario, Canada	491	64.3	64.3	6.3	14.8	11.2	2.8	0.6	66.3	62.5
Quebec, Canada	550	66.9	66.9	3.4	14.4	13.2	2.0	0.0	69.2	64.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041001 - S04\_04)  
 Label: Bird living and cloud nonliving  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	601	16.0	12.5	49.1	21.6	0.7	28.5	16.0	17.2	14.9
Armenia	579	22.0	45.0	11.5	19.6	1.9	67.0	22.0	25.3	18.7
Australia	601	16.5	33.6	42.5	7.4	0.0	50.1	16.5	19.7	13.3
Austria	694	12.1	39.4	36.2	12.3	0.1	51.4	12.1	15.8	8.8
Chinese Taipei	587	28.6	41.7	20.4	9.1	0.2	70.3	28.6	33.1	24.0
Colombia	684	26.2	29.4	34.2	8.6	1.7	55.6	26.2	28.8	23.7
Czech Republic	607	24.8	30.4	38.1	6.8	0.0	55.2	24.8	28.3	21.8
Denmark	494	21.7	27.3	36.6	14.3	0.2	49.0	21.7	23.8	19.5
El Salvador	593	13.8	28.5	43.9	13.2	0.6	42.3	13.8	15.0	12.7
England	625	16.4	32.5	45.5	5.6	0.0	48.9	16.4	20.0	12.7
Georgia	.	.	.	.	.	.	.	.	.	.
Germany	734	20.5	36.9	36.6	5.9	0.1	57.4	20.5	25.0	16.4
Hong Kong SAR	545	11.6	48.5	34.9	5.0	0.0	60.1	11.6	17.4	6.3
Hungary	578	40.0	28.4	24.8	6.2	0.7	68.4	40.0	47.1	33.0
Iran, Islamic Rep. of	552	41.2	25.7	22.1	10.2	0.8	66.9	41.2	45.0	37.9
Italy	638	53.2	26.9	15.0	4.8	0.1	80.1	53.2	55.4	51.2
Japan	636	9.9	37.2	48.8	3.8	0.2	47.1	9.9	11.9	8.0
Kazakhstan	570	56.2	23.0	17.8	3.0	0.0	79.2	56.2	61.3	50.8
Kuwait	553	16.6	16.4	34.9	30.0	2.1	33.0	16.6	21.6	11.5
Latvia	.	.	.	.	.	.	.	.	.	.
Lithuania	574	41.5	42.5	12.7	3.3	0.0	84.0	41.5	46.9	36.8
Morocco	538	9.3	10.5	40.6	38.2	1.4	19.9	9.3	13.7	4.8
Netherlands	477	15.1	36.8	46.2	1.9	0.0	51.9	15.1	15.0	15.1
New Zealand	694	13.3	35.1	44.8	6.4	0.3	48.5	13.3	17.7	8.9
Norway	587	14.8	46.4	31.9	6.8	0.1	61.2	14.8	18.8	10.9
Qatar	1008	7.7	18.5	45.0	28.1	0.7	26.2	7.7	9.7	5.5
Russian Federation	639	45.2	29.8	20.3	4.4	0.3	75.0	45.2	51.7	40.1
Scotland	547	14.2	30.0	43.0	12.4	0.4	44.2	14.2	14.0	14.4
Singapore	716	57.3	32.2	10.1	0.4	0.0	89.5	57.3	61.7	53.3
Slovak Republic	705	44.2	28.7	21.4	5.3	0.4	73.0	44.2	49.4	39.3
Slovenia	623	25.2	36.7	29.8	8.3	0.0	62.0	25.2	32.5	18.1
Sweden	.	.	.	.	.	.	.	.	.	.
Tunisia	592	13.9	28.7	37.2	18.0	2.2	42.6	13.9	15.2	12.8
Ukraine	620	46.8	28.2	14.8	9.6	0.6	75.0	46.8	54.8	39.3
United States	1120	29.6	37.7	30.4	2.1	0.2	67.3	29.6	31.8	27.0
Yemen	834	3.1	11.2	63.6	21.2	0.9	14.3	3.1	3.2	3.0
International Avg.	641	25.1	30.8	32.9	10.7	0.5	55.9	25.1	28.7	21.7
Alberta, Canada	582	23.5	38.9	30.9	6.6	0.1	62.4	23.5	30.1	17.6
British Columbia, Canada	577	24.1	39.1	29.3	7.2	0.2	63.2	24.1	30.9	17.9
Dubai, UAE	440	33.0	25.1	26.9	14.0	1.0	58.1	33.0	40.2	26.9
Massachusetts, US	254	30.7	35.8	30.1	2.8	0.7	66.5	30.7	35.0	26.2
Minnesota, US	264	32.2	32.1	34.3	1.4	0.0	64.3	32.2	36.7	27.4
Ontario, Canada	491	30.7	30.7	33.6	4.3	0.6	61.4	30.7	38.7	24.1
Quebec, Canada	550	35.8	30.3	27.9	5.9	0.1	66.1	35.8	43.8	27.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Reasoning (S041029 - S04\_05)  
 Label: Sunflower seed experiment  
 Type: CR Key: -

COUNTRY	N	10	11	19	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
								V1	%Right	V1	%Right
Algeria	600	28.7	5.1	3.0	29.3	32.8	1.1	36.8	34.7	38.7	
Armenia	580	44.8	8.3	5.4	13.3	25.6	2.6	58.5	65.7	51.4	
Australia	601	79.9	2.6	0.0	12.3	5.1	0.0	82.5	83.6	81.4	
Austria	694	67.9	9.7	2.7	11.2	8.4	0.1	80.2	81.5	79.1	
Chinese Taipei	587	62.2	9.9	1.1	20.8	5.8	0.2	73.2	78.8	67.4	
Colombia	684	55.3	4.9	0.1	25.2	12.1	2.3	60.4	58.7	61.9	
Czech Republic	607	64.6	5.0	1.1	18.9	10.4	0.0	70.7	71.2	70.2	
Denmark	494	73.7	4.5	0.5	14.4	6.6	0.2	78.7	78.2	79.1	
El Salvador	593	38.0	9.0	0.2	34.1	18.0	0.7	47.2	47.9	46.7	
England	625	75.7	4.2	1.0	16.3	2.8	0.1	80.9	85.4	76.2	
Georgia	584	37.6	0.7	1.7	36.0	23.0	1.0	39.9	48.0	33.3	
Germany	734	68.0	10.3	0.8	12.9	8.0	0.1	79.0	80.6	77.5	
Hong Kong SAR	545	66.1	13.3	1.4	11.7	7.5	0.0	80.8	82.9	78.9	
Hungary	578	64.6	4.8	1.4	21.5	6.9	0.7	70.9	73.3	68.5	
Iran, Islamic Rep. of	552	57.3	1.1	0.4	23.3	16.9	1.0	58.8	63.3	54.8	
Italy	638	68.8	8.6	1.2	11.6	9.4	0.4	78.6	77.7	79.4	
Japan	636	47.0	2.0	0.2	48.7	1.4	0.7	49.2	53.2	45.1	
Kazakhstan	570	58.3	3.1	0.2	33.2	5.2	0.0	61.6	62.9	60.3	
Kuwait	553	20.1	0.6	1.7	33.6	41.1	2.9	22.4	33.1	11.6	
Latvia	550	69.1	8.2	2.0	16.7	4.1	0.0	79.2	86.3	73.1	
Lithuania	574	72.7	5.1	7.0	9.2	6.0	0.0	84.8	87.1	82.8	
Morocco	534	19.9	2.4	0.8	21.7	52.7	2.5	23.1	27.7	17.9	
Netherlands	477	78.9	3.4	1.9	14.0	1.7	0.1	84.2	83.0	85.3	
New Zealand	694	71.3	5.3	0.7	16.4	5.9	0.4	77.3	81.7	72.8	
Norway	587	75.0	2.9	0.3	13.2	7.9	0.6	78.2	79.6	76.9	
Qatar	1008	15.1	0.2	0.4	50.3	33.0	1.0	15.7	17.5	13.8	
Russian Federation	639	62.2	5.2	1.3	23.3	7.7	0.3	68.7	72.1	66.0	
Scotland	547	67.2	5.7	1.3	20.0	5.5	0.4	74.2	78.7	69.8	
Singapore	716	77.7	7.0	0.3	14.0	1.1	0.0	84.9	89.2	81.1	
Slovak Republic	705	54.9	2.6	0.3	35.5	6.3	0.4	57.8	60.3	55.4	
Slovenia	623	77.8	2.4	0.6	14.3	4.5	0.4	80.8	82.0	79.7	
Sweden	668	76.3	4.4	3.5	10.9	4.7	0.3	84.2	85.7	82.8	
Tunisia	592	27.9	2.0	0.5	39.5	26.8	3.3	30.4	34.5	26.7	
Ukraine	620	61.2	2.8	1.6	17.8	15.5	1.0	65.6	73.0	58.7	
United States	1120	69.9	2.8	5.4	19.2	2.5	0.2	78.0	78.5	77.5	
Yemen	834	4.6	0.2	2.5	55.0	36.5	1.2	7.3	7.4	7.3	
International Avg.	637	57.2	4.7	1.5	22.8	13.0	0.7	63.5	66.3	60.8	
Alberta, Canada	582	74.3	7.4	1.6	13.8	2.8	0.1	83.2	85.8	80.9	
British Columbia, Canada	577	75.3	5.0	1.1	14.9	3.3	0.4	81.3	82.4	80.4	
Dubai, UAE	440	53.9	1.1	1.2	22.3	20.6	1.0	56.2	66.2	47.9	
Massachusetts, US	254	79.1	2.1	7.1	10.1	1.0	0.7	88.3	89.5	87.0	
Minnesota, US	264	77.9	1.1	3.7	15.7	1.6	0.0	82.7	82.1	83.3	
Ontario, Canada	491	78.5	3.6	1.9	12.5	2.8	0.7	84.1	84.7	83.5	
Quebec, Canada	550	69.6	8.4	6.1	10.4	5.4	0.1	84.1	86.3	81.8	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041054 - S04\_06)  
 Label: Three objects of same size and shape  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	554	65.6	6.9	65.6	11.6	10.6	2.9	2.4	64.0	67.1
Armenia	579	69.2	5.4	69.2	5.2	7.8	8.7	3.6	73.6	64.9
Australia	601	68.3	19.2	68.3	5.4	5.4	1.0	0.7	58.8	77.6
Austria	694	87.8	4.1	87.8	0.9	5.0	2.1	0.1	83.1	91.9
Chinese Taipei	587	91.2	4.1	91.2	0.4	3.7	0.4	0.2	91.3	91.0
Colombia	684	77.1	8.0	77.1	3.8	4.9	3.5	2.7	77.4	76.9
Czech Republic	608	86.8	4.0	86.8	1.6	7.0	0.5	0.1	82.4	90.6
Denmark	494	83.6	6.1	83.6	3.3	4.4	2.0	0.6	84.0	83.2
El Salvador	593	79.7	7.4	79.7	2.4	7.5	2.0	0.9	76.3	82.9
England	625	89.2	4.8	89.2	1.5	3.3	1.1	0.2	88.9	89.5
Georgia	586	83.6	2.1	83.6	3.9	6.7	2.3	1.4	82.6	84.5
Germany	734	89.7	5.1	89.7	0.5	3.1	1.2	0.3	87.8	91.5
Hong Kong SAR	545	89.8	5.0	89.8	1.2	3.3	0.4	0.3	90.5	89.3
Hungary	578	89.2	3.1	89.2	1.3	3.7	1.8	1.0	88.8	89.6
Iran, Islamic Rep. of	552	68.3	1.3	68.3	6.2	18.7	3.7	1.7	67.3	69.2
Italy	635	87.9	4.1	87.9	1.0	5.5	0.6	0.9	85.9	89.8
Japan	636	94.0	2.3	94.0	1.2	1.6	0.1	0.7	94.9	93.2
Kazakhstan	570	89.0	1.9	89.0	2.0	7.1	0.0	0.0	90.3	87.5
Kuwait	553	68.8	4.0	68.8	9.5	10.0	4.1	3.5	73.5	64.0
Latvia	550	85.7	7.5	85.7	4.1	2.1	0.7	0.0	83.4	87.7
Lithuania	574	83.0	6.1	83.0	1.7	8.4	0.8	0.0	80.6	85.1
Morocco	508	68.6	6.6	68.6	11.6	8.0	2.1	3.0	69.0	67.9
Netherlands	477	86.4	7.4	86.4	1.7	3.0	1.5	0.1	81.8	90.5
New Zealand	694	66.8	19.3	66.8	3.4	8.2	1.7	0.7	63.9	69.8
Norway	587	80.8	8.1	80.8	5.2	3.0	1.7	1.1	78.7	82.9
Qatar	1007	46.8	14.0	46.8	21.5	13.5	3.1	1.2	44.6	49.1
Russian Federation	639	91.8	3.5	91.8	0.8	3.5	0.2	0.3	88.4	94.5
Scotland	547	81.6	7.7	81.6	2.3	6.9	0.9	0.5	80.2	83.0
Singapore	716	87.6	4.1	87.6	2.3	5.8	0.1	0.0	83.7	91.1
Slovak Republic	705	85.4	3.5	85.4	2.1	7.6	0.8	0.5	85.6	85.2
Slovenia	623	89.5	4.3	89.5	1.7	2.6	1.3	0.7	89.7	89.2
Sweden	668	84.1	3.2	84.1	2.8	8.1	1.2	0.6	81.2	86.9
Tunisia	592	59.6	6.5	59.6	7.8	8.0	12.9	5.2	63.0	56.6
Ukraine	620	82.3	5.6	82.3	1.6	8.0	1.3	1.2	77.5	86.9
United States	1120	79.9	9.9	79.9	3.4	5.3	1.1	0.5	76.9	83.5
Yemen	834	47.6	8.9	47.6	20.2	16.8	4.7	1.8	46.2	48.7
International Avg.	635	79.6	6.3	79.6	4.4	6.6	2.1	1.1	78.2	80.9
Alberta, Canada	582	79.1	15.7	79.1	0.8	3.6	0.4	0.5	72.2	85.3
British Columbia, Canada	577	78.2	14.7	78.2	1.3	3.6	1.8	0.4	72.9	83.1
Dubai, UAE	440	67.6	11.3	67.6	6.5	11.0	2.4	1.3	66.9	68.1
Massachusetts, US	254	86.2	7.5	86.2	0.6	3.8	1.2	0.7	81.0	91.6
Minnesota, US	264	84.8	8.5	84.8	3.7	2.2	0.7	0.1	79.4	90.5
Ontario, Canada	491	79.4	13.8	79.4	1.8	3.6	0.6	0.7	72.6	85.2
Quebec, Canada	550	84.2	10.2	84.2	2.1	3.0	0.4	0.2	85.7	82.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041308 - S04\_07)  
 Label: Which object moves due to gravity  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	555	33.1	24.2	18.0	14.8	33.1	7.0	2.8	31.7	34.5
Armenia	575	42.9	16.2	10.7	12.6	42.9	13.3	4.4	42.2	43.6
Australia	601	57.2	24.6	10.3	5.1	57.2	1.9	0.8	59.7	54.8
Austria	694	63.9	14.8	7.9	8.7	63.9	4.6	0.1	58.2	68.9
Chinese Taipei	587	68.0	9.4	15.8	5.3	68.0	1.3	0.2	62.2	74.1
Colombia	684	35.2	25.4	12.9	18.0	35.2	4.2	4.2	31.5	38.7
Czech Republic	608	38.5	38.3	7.9	10.3	38.5	4.9	0.1	29.1	46.6
Denmark	493	60.8	22.6	5.5	5.9	60.8	4.5	0.8	55.0	66.9
El Salvador	593	33.9	28.8	18.1	14.5	33.9	3.5	1.2	31.1	36.4
England	625	61.9	20.3	12.3	3.9	61.9	1.3	0.3	62.4	61.4
Georgia	586	38.4	27.6	7.9	19.7	38.4	4.8	1.5	36.3	40.1
Germany	734	55.3	16.9	11.5	10.7	55.3	5.1	0.6	49.6	60.5
Hong Kong SAR	545	73.1	9.0	11.5	5.3	73.1	0.8	0.3	69.1	76.8
Hungary	578	51.2	26.2	6.4	10.6	51.2	4.6	1.0	49.0	53.4
Iran, Islamic Rep. of	552	38.7	15.7	20.8	17.9	38.7	4.9	2.0	35.6	41.4
Italy	634	52.9	23.9	10.0	8.5	52.9	3.6	1.1	52.2	53.6
Japan	636	42.8	21.4	14.5	18.2	42.8	2.3	0.8	35.5	50.1
Kazakhstan	570	63.6	15.0	10.3	11.0	63.6	0.2	0.0	68.3	58.5
Kuwait	553	31.5	20.6	21.0	14.6	31.5	8.6	3.8	36.1	26.8
Latvia	550	57.6	18.0	7.2	14.8	57.6	1.7	0.6	54.5	60.3
Lithuania	574	40.0	11.4	23.3	20.1	40.0	5.3	0.0	38.0	41.8
Morocco	508	25.9	28.8	19.4	16.4	25.9	6.5	3.0	25.8	25.9
Netherlands	477	51.9	28.6	7.4	8.1	51.9	3.7	0.3	43.1	59.8
New Zealand	694	56.0	27.1	8.2	5.4	56.0	2.3	0.9	55.0	57.1
Norway	587	39.7	28.7	16.4	8.9	39.7	4.9	1.4	40.0	39.4
Qatar	1007	23.0	21.2	23.2	25.2	23.0	6.0	1.4	24.0	22.0
Russian Federation	639	66.8	11.4	11.2	6.7	66.8	3.6	0.3	64.3	68.7
Scotland	547	49.0	30.8	9.7	6.1	49.0	3.9	0.5	41.8	55.9
Singapore	716	54.5	20.5	12.0	12.4	54.5	0.6	0.0	47.6	60.6
Slovak Republic	705	71.0	14.4	7.3	4.0	71.0	2.8	0.5	72.7	69.3
Slovenia	623	33.0	21.2	22.0	17.7	33.0	5.2	0.9	29.8	36.2
Sweden	668	56.9	25.4	6.9	7.6	56.9	2.4	0.9	51.6	61.9
Tunisia	592	28.4	12.0	19.8	16.5	28.4	17.1	6.2	27.9	28.8
Ukraine	620	61.4	11.4	14.6	7.4	61.4	3.9	1.2	58.5	64.1
United States	1120	61.0	20.3	10.6	5.5	61.0	2.0	0.6	57.8	64.8
Yemen	834	32.3	11.9	25.2	24.1	32.3	4.7	1.8	34.4	30.7
International Avg.	635	48.6	20.7	13.3	11.7	48.6	4.4	1.3	46.2	51.0
Alberta, Canada	582	55.2	22.4	14.6	5.1	55.2	2.2	0.5	49.5	60.4
British Columbia, Canada	577	63.9	21.6	6.7	4.6	63.9	2.1	1.0	59.3	68.3
Dubai, UAE	440	47.6	24.0	16.0	7.6	47.6	3.6	1.3	45.8	49.0
Massachusetts, US	254	68.6	20.4	4.1	3.6	68.6	1.9	1.4	64.4	72.9
Minnesota, US	264	67.8	14.3	6.3	8.2	67.8	2.5	0.9	64.1	71.7
Ontario, Canada	491	63.0	20.7	8.1	5.0	63.0	2.2	0.9	60.4	65.2
Quebec, Canada	550	37.5	34.3	15.3	11.1	37.5	1.6	0.2	27.6	48.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S041179 - S04\_08)  
 Label: Complete the food chain  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	601	9.9	69.5	17.1	3.5	9.9	11.9	7.9
Armenia	580	20.0	41.2	33.8	5.0	20.0	17.7	22.2
Australia	601	40.3	51.4	7.2	1.1	40.3	36.3	44.2
Austria	694	30.1	56.0	13.8	0.1	30.1	28.0	31.9
Chinese Taipei	587	52.2	43.2	4.4	0.2	52.2	48.9	55.8
Colombia	684	14.0	61.4	19.4	5.2	14.0	10.5	17.1
Czech Republic	608	29.1	56.3	14.0	0.6	29.1	29.3	28.9
Denmark	494	33.5	48.5	17.0	0.9	33.5	29.5	37.7
El Salvador	593	8.2	73.0	17.0	1.8	8.2	7.6	8.7
England	625	45.3	48.9	5.5	0.3	45.3	41.6	49.1
Georgia	586	14.2	49.3	34.9	1.6	14.2	14.1	14.3
Germany	734	37.1	47.2	15.0	0.8	37.1	32.0	41.8
Hong Kong SAR	545	55.3	40.8	3.6	0.3	55.3	50.4	59.8
Hungary	578	39.5	50.2	9.3	1.0	39.5	41.4	37.6
Iran, Islamic Rep. of	552	11.9	75.4	9.7	3.0	11.9	12.2	11.7
Italy	638	40.0	47.9	11.0	1.1	40.0	37.6	42.4
Japan	636	52.5	44.7	2.0	0.8	52.5	49.8	55.3
Kazakhstan	570	46.4	45.3	8.3	0.0	46.4	45.0	47.9
Kuwait	553	5.1	64.6	26.5	3.8	5.1	5.1	5.1
Latvia	550	35.6	59.3	4.4	0.7	35.6	38.9	32.7
Lithuania	574	35.9	56.8	7.0	0.2	35.9	42.2	30.2
Morocco	534	12.2	61.5	22.1	4.2	12.2	11.7	12.9
Netherlands	477	31.1	62.2	6.1	0.6	31.1	27.4	34.5
New Zealand	694	33.1	60.6	5.3	1.0	33.1	31.7	34.6
Norway	587	22.6	61.0	14.4	2.0	22.6	22.1	23.2
Qatar	1008	5.1	73.8	19.5	1.6	5.1	6.6	3.5
Russian Federation	639	54.1	37.3	7.2	1.4	54.1	54.9	53.5
Scotland	547	35.4	55.8	8.4	0.5	35.4	34.5	36.2
Singapore	716	71.6	27.9	0.5	0.0	71.6	71.2	71.9
Slovak Republic	705	35.9	55.7	7.5	0.9	35.9	36.0	35.9
Slovenia	623	31.2	60.3	7.6	0.9	31.2	31.8	30.5
Sweden	668	32.3	52.5	14.2	1.1	32.3	27.9	36.4
Tunisia	592	10.6	70.9	11.6	7.0	10.6	10.9	10.3
Ukraine	620	26.9	62.1	9.1	1.8	26.9	25.9	27.9
United States	1120	48.9	48.9	1.6	0.6	48.9	47.8	50.1
Yemen	834	2.3	73.0	22.6	2.0	2.3	2.1	2.5
International Avg.	637	30.8	55.4	12.2	1.6	30.8	29.8	31.8
Alberta, Canada	582	42.8	50.4	6.3	0.6	42.8	40.2	45.2
British Columbia, Canada	577	46.2	45.3	7.3	1.2	46.2	46.7	45.7
Dubai, UAE	440	35.4	52.0	11.2	1.4	35.4	37.9	33.3
Massachusetts, US	254	55.4	39.8	3.5	1.4	55.4	53.9	56.9
Minnesota, US	264	46.9	50.1	1.8	1.2	46.9	40.5	53.7
Ontario, Canada	491	47.9	46.1	5.1	0.9	47.9	47.5	48.2
Quebec, Canada	550	23.8	65.7	10.4	0.2	23.8	26.5	20.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041087 - S04\_09)  
 Label: Proportions of land-water on Earth  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	553	30.0	30.0	7.5	34.9	16.3	6.6	4.6	27.6	32.4
Armenia	579	54.1	54.1	6.0	16.4	5.1	11.8	6.7	55.7	52.5
Australia	601	44.0	44.0	12.1	36.1	4.2	1.9	1.8	35.1	52.6
Austria	694	56.0	56.0	9.1	26.5	3.9	4.1	0.3	51.6	59.9
Chinese Taipei	587	53.8	53.8	9.7	31.4	2.8	2.1	0.2	42.4	65.9
Colombia	684	32.7	32.7	5.7	29.5	19.2	4.6	8.3	25.9	38.9
Czech Republic	608	33.9	33.9	12.7	41.2	4.6	7.1	0.6	27.5	39.5
Denmark	494	52.1	52.1	11.3	30.7	0.7	3.2	2.0	47.7	56.7
El Salvador	593	21.1	21.1	7.9	44.0	16.9	6.0	4.1	16.9	24.9
England	625	43.1	43.1	10.3	40.7	3.2	2.3	0.5	36.6	49.8
Georgia	586	31.8	31.8	10.3	40.2	8.7	5.9	3.1	29.1	34.1
Germany	734	54.0	54.0	9.2	28.9	2.7	4.1	1.2	46.1	61.2
Hong Kong SAR	545	73.7	73.7	15.4	8.2	1.5	1.0	0.3	65.4	81.3
Hungary	578	54.0	54.0	12.6	23.7	5.0	2.7	2.0	48.8	59.1
Iran, Islamic Rep. of	552	38.8	38.8	4.5	27.5	18.1	6.5	4.6	37.1	40.2
Italy	636	47.6	47.6	9.7	25.5	10.6	5.0	1.5	41.2	53.7
Japan	636	40.6	40.6	19.3	33.2	4.7	1.4	0.8	38.3	42.9
Kazakhstan	570	74.2	74.2	3.9	15.9	5.4	0.6	0.0	76.7	71.6
Kuwait	553	31.4	31.4	5.7	38.0	9.2	9.3	6.3	30.8	32.0
Latvia	550	53.8	53.8	10.0	29.3	4.3	1.8	0.7	48.4	58.5
Lithuania	574	72.4	72.4	6.1	15.1	4.6	1.6	0.2	71.2	73.4
Morocco	493	25.2	25.2	6.9	33.4	20.5	8.0	6.1	27.6	23.1
Netherlands	477	50.1	50.1	15.2	30.4	2.5	1.2	0.6	46.0	53.8
New Zealand	694	35.3	35.3	8.8	46.9	4.5	3.2	1.3	29.5	41.4
Norway	587	45.5	45.5	11.4	35.1	0.9	4.4	2.6	38.9	51.9
Qatar	1007	21.3	21.3	11.8	37.5	15.9	10.7	2.8	21.7	20.9
Russian Federation	639	61.7	61.7	4.2	28.6	1.4	2.6	1.5	59.9	63.1
Scotland	547	41.3	41.3	8.6	43.4	2.8	3.1	0.8	38.1	44.5
Singapore	716	61.4	61.4	16.5	17.4	4.7	0.0	0.0	54.8	67.3
Slovak Republic	705	46.5	46.5	7.1	37.2	6.0	2.3	0.9	40.6	52.2
Slovenia	623	52.3	52.3	9.1	25.7	6.5	4.8	1.6	50.6	54.1
Sweden	668	54.7	54.7	9.8	29.0	2.2	3.1	1.2	47.1	62.0
Tunisia	592	12.4	12.4	6.6	34.0	15.1	23.5	8.4	10.6	13.9
Ukraine	620	51.6	51.6	4.5	34.2	5.0	2.7	2.0	55.1	48.4
United States	1120	54.9	54.9	8.0	32.6	2.8	0.8	0.9	50.2	60.4
Yemen	832	18.1	18.1	10.2	29.0	23.1	16.3	3.4	14.7	20.7
International Avg.	635	45.2	45.2	9.4	30.9	7.4	4.9	2.3	41.3	48.9
Alberta, Canada	582	50.9	50.9	11.7	31.4	3.0	2.1	0.8	48.7	52.9
British Columbia, Canada	577	49.1	49.1	10.3	34.8	2.1	2.2	1.4	45.6	52.5
Dubai, UAE	440	51.6	51.6	9.2	25.0	5.6	6.6	2.1	51.9	51.4
Massachusetts, US	254	65.6	65.6	6.3	23.0	2.5	0.8	1.9	56.9	74.4
Minnesota, US	264	59.6	59.6	6.2	30.0	2.0	1.0	1.2	51.1	68.6
Ontario, Canada	491	42.6	42.6	12.0	38.2	3.8	1.9	1.4	36.2	48.0
Quebec, Canada	550	39.1	39.1	13.5	39.6	4.9	2.7	0.2	33.4	45.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041205 - S04\_10)  
 Label: Fossils of shellfish  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	556	25.3	21.2	19.9	20.9	25.3	7.7	4.9	24.7	26.0
Armenia	577	30.9	15.7	14.0	9.4	30.9	22.9	7.0	32.0	29.8
Australia	601	64.4	13.0	9.6	9.8	64.4	0.9	2.3	64.2	64.6
Austria	694	65.7	16.7	11.9	1.4	65.7	3.9	0.3	65.2	66.2
Chinese Taipei	587	74.3	6.4	13.5	4.2	74.3	1.5	0.2	72.0	76.6
Colombia	684	35.8	14.5	18.6	16.4	35.8	5.8	8.9	38.9	33.0
Czech Republic	608	63.1	13.9	10.6	4.8	63.1	7.0	0.6	60.3	65.6
Denmark	492	61.4	12.7	15.0	4.4	61.4	4.2	2.3	64.1	58.6
El Salvador	593	36.6	19.8	14.2	19.7	36.6	5.2	4.5	39.5	34.0
England	625	63.7	12.8	13.0	7.3	63.7	2.7	0.5	64.9	62.5
Georgia	586	40.1	12.2	18.9	16.9	40.1	8.6	3.3	41.1	39.2
Germany	734	64.2	20.0	9.2	2.6	64.2	2.7	1.3	62.5	65.9
Hong Kong SAR	545	57.0	24.2	12.3	5.0	57.0	1.1	0.4	56.1	57.9
Hungary	578	65.4	9.2	13.2	4.9	65.4	5.3	2.0	68.8	62.1
Iran, Islamic Rep. of	552	45.3	12.9	17.8	12.6	45.3	5.1	6.3	51.6	39.7
Italy	638	70.3	8.8	10.2	5.6	70.3	3.2	1.8	72.6	68.1
Japan	636	76.7	10.7	6.3	4.8	76.7	0.7	0.9	77.0	76.4
Kazakhstan	570	63.1	16.9	13.3	4.8	63.1	1.7	0.2	64.1	62.0
Kuwait	553	38.4	13.0	18.6	12.8	38.4	10.5	6.6	46.9	29.9
Latvia	550	54.6	10.9	22.5	9.7	54.6	1.4	0.9	56.8	52.6
Lithuania	574	49.2	24.5	19.6	3.6	49.2	2.8	0.2	52.6	46.2
Morocco	509	29.9	18.2	18.4	18.0	29.9	8.6	7.0	30.8	28.3
Netherlands	477	71.1	9.1	11.9	6.3	71.1	0.7	0.9	65.5	76.2
New Zealand	694	62.1	11.5	12.8	9.3	62.1	2.6	1.7	62.7	61.5
Norway	587	38.4	25.0	22.3	7.1	38.4	3.9	3.2	32.9	43.7
Qatar	1007	22.3	24.0	27.3	16.1	22.3	6.8	3.4	25.5	19.0
Russian Federation	639	62.3	12.0	15.6	5.4	62.3	2.0	2.5	64.0	61.0
Scotland	547	57.5	12.9	15.3	8.9	57.5	4.6	0.8	58.4	56.6
Singapore	716	60.8	19.0	13.5	6.4	60.8	0.3	0.0	56.8	64.2
Slovak Republic	705	52.6	16.0	19.6	6.3	52.6	4.7	0.9	54.4	50.9
Slovenia	623	59.4	11.0	14.2	8.7	59.4	4.7	2.1	57.8	60.9
Sweden	668	55.9	11.1	24.5	5.8	55.9	1.5	1.2	57.4	54.4
Tunisia	592	24.6	10.4	17.8	17.6	24.6	19.3	10.4	28.1	21.5
Ukraine	620	53.0	15.3	22.1	5.1	53.0	2.3	2.2	49.2	56.5
United States	1120	63.8	13.5	11.1	8.2	63.8	2.6	0.9	65.4	61.9
Yemen	833	22.5	14.1	25.5	25.2	22.5	9.0	3.8	22.5	22.6
International Avg.	635	52.3	14.8	15.9	9.3	52.3	5.0	2.7	53.0	51.6
Alberta, Canada	582	73.0	11.1	8.4	4.3	73.0	2.3	0.8	73.0	73.1
British Columbia, Canada	577	67.0	13.6	9.7	6.2	67.0	1.9	1.5	70.1	64.2
Dubai, UAE	440	45.1	19.2	19.1	9.1	45.1	5.0	2.4	47.9	42.8
Massachusetts, US	254	74.9	7.1	7.9	4.6	74.9	3.7	1.9	73.3	76.5
Minnesota, US	264	66.7	13.0	9.1	6.5	66.7	3.1	1.6	67.4	66.0
Ontario, Canada	491	68.3	9.8	9.6	8.3	68.3	2.0	2.1	72.8	64.5
Quebec, Canada	550	58.7	15.3	16.7	6.1	58.7	3.0	0.2	60.7	56.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041216 - S04\_11)  
 Label: One property to separate balls  
 Type: CR Key: -

COUNTRY	N	10	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	597	7.8	1.0	1.2	33.2	50.4	6.3	8.8	7.8	9.8
Armenia	578	38.0	3.0	1.0	13.1	36.7	8.3	40.9	40.9	41.0
Australia	601	37.3	0.0	0.0	45.8	14.4	2.5	37.3	33.6	40.9
Austria	694	46.1	0.5	0.1	23.9	28.8	0.6	46.6	40.8	51.7
Chinese Taipei	587	43.8	1.3	0.1	29.5	25.0	0.2	45.1	45.6	44.7
Colombia	684	24.2	0.1	0.1	35.9	29.8	9.9	24.3	22.8	25.6
Czech Republic	608	65.7	0.9	0.2	17.9	14.6	0.7	66.6	67.6	65.7
Denmark	494	41.8	0.5	0.2	30.3	24.4	2.8	42.3	37.8	47.2
El Salvador	593	11.2	0.1	0.0	47.3	36.5	5.0	11.3	10.7	11.8
England	625	43.4	0.5	1.2	38.0	16.0	0.9	43.9	41.7	46.3
Georgia	586	32.5	0.4	2.2	26.0	34.6	4.3	32.8	33.8	32.0
Germany	734	49.7	0.2	0.9	23.3	24.0	1.9	49.9	45.6	53.9
Hong Kong SAR	545	49.7	0.5	0.4	30.8	18.2	0.4	50.2	54.7	46.1
Hungary	578	59.6	0.6	0.3	23.4	12.6	3.4	60.2	61.3	59.1
Iran, Islamic Rep. of	552	29.9	0.1	1.1	29.3	32.6	7.0	30.0	30.6	29.5
Italy	638	32.7	0.5	0.1	31.1	33.3	2.3	33.2	30.3	35.9
Japan	636	40.8	0.3	0.2	48.3	9.4	1.0	41.1	42.9	39.3
Kazakhstan	570	68.1	0.4	0.6	21.9	8.7	0.2	68.4	67.9	69.0
Kuwait	553	9.5	0.3	0.8	25.3	55.6	8.4	9.8	13.9	5.7
Latvia	550	61.1	2.2	0.1	28.9	6.6	1.1	63.3	67.0	60.0
Lithuania	574	52.3	0.8	0.5	25.6	20.4	0.5	53.0	51.1	54.8
Morocco	538	7.2	0.0	0.9	20.2	63.0	8.7	7.2	6.9	7.5
Netherlands	477	56.8	0.0	0.4	34.8	7.1	0.9	56.8	57.0	56.7
New Zealand	694	34.3	0.2	0.5	48.9	14.0	2.1	34.6	37.8	31.2
Norway	587	42.0	0.6	0.4	30.5	23.1	3.4	42.7	40.4	44.8
Qatar	1008	5.9	0.3	1.2	33.4	55.4	3.8	6.2	7.2	5.1
Russian Federation	639	64.3	0.4	0.2	21.3	11.1	2.7	64.7	66.9	63.1
Scotland	547	31.8	0.8	0.5	46.2	19.5	1.3	32.6	32.0	33.1
Singapore	716	56.7	0.8	1.2	39.1	2.2	0.0	57.5	58.1	57.0
Slovak Republic	705	49.6	0.7	1.3	26.9	20.6	0.9	50.3	55.7	45.2
Slovenia	623	60.8	3.0	0.6	23.0	10.2	2.5	63.7	66.7	60.9
Sweden	668	45.2	1.0	1.0	35.7	15.6	1.5	46.2	40.4	51.8
Tunisia	591	7.8	0.2	0.6	45.1	35.1	11.3	8.0	6.2	9.6
Ukraine	620	32.1	1.0	0.0	32.3	31.7	2.8	33.1	35.0	31.4
United States	1120	50.7	1.2	0.5	42.7	3.9	1.0	51.9	56.3	46.7
Yemen	833	5.4	0.4	0.1	32.5	56.6	5.0	5.8	8.1	4.1
International Avg.	637	38.8	0.7	0.6	31.7	25.0	3.2	39.5	39.5	39.4
Alberta, Canada	582	48.7	2.6	0.3	39.7	7.7	1.0	51.3	53.6	49.3
British Columbia, Canada	577	43.5	3.8	0.2	40.2	10.4	1.9	47.2	48.6	46.0
Dubai, UAE	440	24.8	0.5	2.2	34.9	34.7	2.8	25.3	28.3	22.8
Massachusetts, US	254	48.5	0.4	0.5	43.5	4.9	2.2	48.9	47.9	50.0
Minnesota, US	264	50.1	1.9	0.3	40.3	5.0	2.4	51.9	51.7	52.2
Ontario, Canada	491	52.2	2.0	0.8	34.8	8.2	2.1	54.2	53.9	54.4
Quebec, Canada	550	40.8	2.6	0.6	34.6	20.9	0.6	43.3	44.0	42.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041061 - S04\_12)  
 Label: State of each group  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	44.0	30.9	15.2	9.8	44.0	46.9	41.3
Armenia	579	42.0	22.4	26.0	9.6	42.0	42.7	41.4
Australia	601	56.6	26.9	13.2	3.3	56.6	62.6	50.7
Austria	694	44.5	30.1	23.9	1.5	44.5	44.1	44.9
Chinese Taipei	587	61.4	25.0	12.4	1.2	61.4	62.9	59.7
Colombia	684	35.7	33.6	16.7	14.0	35.7	30.4	40.5
Czech Republic	608	57.3	24.1	17.4	1.2	57.3	58.4	56.3
Denmark	494	46.1	26.2	23.4	4.3	46.1	47.9	44.3
El Salvador	593	24.4	48.2	20.0	7.4	24.4	27.0	22.1
England	625	76.4	12.2	8.7	2.6	76.4	79.5	73.3
Georgia	586	30.2	28.6	35.3	5.9	30.2	36.3	25.1
Germany	734	50.8	26.3	19.9	2.9	50.8	49.6	52.0
Hong Kong SAR	545	90.6	5.4	3.7	0.4	90.6	93.3	88.0
Hungary	578	50.9	33.9	11.0	4.2	50.9	54.2	47.6
Iran, Islamic Rep. of	552	42.0	36.2	13.9	7.9	42.0	48.2	36.5
Italy	638	71.7	13.4	10.7	4.2	71.7	75.3	68.3
Japan	636	76.6	18.8	3.2	1.4	76.6	77.1	76.0
Kazakhstan	570	68.8	24.5	6.2	0.4	68.8	70.7	66.8
Kuwait	553	27.5	30.5	28.8	13.1	27.5	39.9	15.0
Latvia	550	63.0	30.4	5.2	1.4	63.0	70.6	56.3
Lithuania	574	47.3	36.3	14.0	2.4	47.3	55.8	39.6
Morocco	538	35.2	31.1	19.6	14.1	35.2	40.2	30.7
Netherlands	477	30.5	57.7	10.0	1.8	30.5	28.8	32.1
New Zealand	694	52.9	31.4	12.6	3.1	52.9	54.5	51.3
Norway	587	28.7	43.3	21.8	6.3	28.7	28.7	28.7
Qatar	1008	39.5	33.4	20.7	6.4	39.5	47.6	30.8
Russian Federation	639	69.3	17.6	9.5	3.6	69.3	73.1	66.4
Scotland	547	63.0	17.9	15.3	3.7	63.0	65.8	60.3
Singapore	716	93.2	6.5	0.1	0.3	93.2	95.1	91.5
Slovak Republic	705	55.9	26.6	16.2	1.4	55.9	61.9	50.2
Slovenia	623	62.1	27.5	7.3	3.0	62.1	66.7	57.7
Sweden	668	52.3	22.8	21.8	3.1	52.3	53.8	50.8
Tunisia	591	39.3	35.9	11.4	13.3	39.3	49.8	30.0
Ukraine	620	46.8	33.5	15.8	4.0	46.8	53.0	40.9
United States	1120	65.8	28.6	4.1	1.5	65.8	67.4	63.9
Yemen	833	13.9	55.8	23.2	7.1	13.9	18.9	9.9
International Avg.	637	51.6	28.7	15.0	4.8	51.6	55.0	48.4
Alberta, Canada	582	62.4	25.4	10.7	1.5	62.4	65.7	59.3
British Columbia, Canada	577	68.8	18.5	10.5	2.2	68.8	74.1	63.7
Dubai, UAE	440	58.5	20.5	16.3	4.7	58.5	69.3	49.6
Massachusetts, US	254	67.9	21.2	7.8	3.0	67.9	66.9	69.0
Minnesota, US	264	58.7	36.0	2.9	2.4	58.7	59.4	58.0
Ontario, Canada	491	65.4	23.9	7.3	3.4	65.4	66.7	64.4
Quebec, Canada	550	64.9	22.1	11.3	1.7	64.9	64.8	65.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S041202 - S04\_13)  
 Label: A natural resource and its use  
 Type: CR Key: -

COUNTRY	N	20	10	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	601	8.2	6.6	3.0	34.1	38.1	9.9	14.8	8.2	10.5	6.1
Armenia	580	14.6	25.8	0.7	20.9	27.9	10.1	40.4	14.6	15.7	13.5
Australia	601	25.8	5.8	6.6	46.6	10.9	4.3	31.6	25.8	29.5	22.1
Austria	694	32.4	12.7	6.5	13.7	32.4	2.2	45.2	32.4	30.6	34.1
Chinese Taipei	586	36.1	17.7	3.5	29.3	12.2	1.2	53.8	36.1	35.5	36.6
Colombia	684	18.4	11.9	6.8	23.8	23.5	15.6	30.3	18.4	17.3	19.4
Czech Republic	605	39.6	8.6	5.0	25.1	19.8	2.0	48.2	39.6	43.2	36.5
Denmark	494	20.9	7.8	0.2	44.5	21.9	4.8	28.7	20.9	20.4	21.4
El Salvador	593	11.5	8.6	11.8	35.8	23.8	8.6	20.0	11.5	14.4	8.8
England	625	29.5	9.0	4.0	41.6	12.7	3.2	38.5	29.5	27.2	31.8
Georgia	584	18.9	11.8	6.0	17.0	38.8	7.5	30.7	18.9	21.4	16.7
Germany	734	30.4	8.5	6.8	26.5	24.5	3.4	38.8	30.4	27.7	32.8
Hong Kong SAR	545	39.5	7.8	11.4	34.1	6.9	0.4	47.3	39.5	43.1	36.2
Hungary	578	38.8	12.3	6.8	24.5	12.5	5.1	51.1	38.8	38.4	39.1
Iran, Islamic Rep. of	552	21.7	6.3	11.9	21.3	30.3	8.6	28.0	21.7	24.1	19.6
Italy	638	32.9	11.2	9.4	28.3	14.1	4.2	44.1	32.9	31.9	33.8
Japan	636	32.0	8.1	11.1	37.1	10.2	1.6	40.1	32.0	32.7	31.2
Kazakhstan	570	40.9	23.6	2.2	19.3	13.5	0.4	64.5	40.9	41.3	40.5
Kuwait	553	5.7	9.4	3.4	28.3	39.8	13.3	15.2	5.7	9.6	1.9
Latvia	550	37.3	13.7	3.5	35.1	8.7	1.8	50.9	37.3	39.6	35.2
Lithuania	574	29.5	8.9	13.6	22.1	23.4	2.6	38.3	29.5	34.3	25.1
Morocco	538	2.8	5.3	8.1	20.5	48.8	14.4	8.2	2.8	3.5	2.2
Netherlands	477	20.5	7.5	5.4	58.4	6.1	2.0	28.0	20.5	16.2	24.4
New Zealand	694	28.0	11.7	4.5	40.1	12.4	3.3	39.7	28.0	28.9	27.1
Norway	587	19.3	10.7	3.3	34.5	23.9	8.3	29.9	19.3	22.5	16.1
Qatar	1008	3.2	5.7	6.5	28.1	49.9	6.7	8.9	3.2	4.2	2.1
Russian Federation	639	41.2	11.7	8.2	13.1	21.0	4.8	52.8	41.2	45.1	38.1
Scotland	547	22.2	9.8	3.3	43.7	16.6	4.5	32.0	22.2	26.5	18.0
Singapore	716	39.6	15.6	8.0	34.7	1.8	0.3	55.2	39.6	41.6	37.9
Slovak Republic	705	32.9	8.9	2.5	38.6	15.7	1.5	41.8	32.9	37.5	28.6
Slovenia	623	36.2	23.1	2.3	19.7	15.5	3.2	59.4	36.2	40.5	32.0
Sweden	668	37.4	7.9	4.8	29.7	16.6	3.6	45.3	37.4	37.0	37.8
Tunisia	591	4.9	6.6	1.7	40.3	31.0	15.5	11.5	4.9	4.2	5.5
Ukraine	620	22.0	8.2	13.9	27.1	24.8	4.1	30.2	22.0	28.5	15.8
United States	1120	47.2	10.9	6.6	29.6	3.6	2.0	58.1	47.2	51.0	42.8
Yemen	834	0.5	4.2	2.1	32.6	53.4	7.2	4.7	0.5	0.6	0.4
International Avg.	637	25.6	10.7	6.0	30.5	21.9	5.3	36.3	25.6	27.1	24.2
Alberta, Canada	582	49.3	16.6	5.3	20.4	5.6	2.8	65.9	49.3	52.1	46.7
British Columbia, Canada	577	38.4	11.7	3.7	34.0	9.6	2.6	50.0	38.4	40.8	36.1
Dubai, UAE	440	20.5	12.4	6.9	27.6	27.7	4.9	33.0	20.5	23.5	18.1
Massachusetts, US	254	55.3	10.6	4.1	18.7	7.5	3.9	65.9	55.3	55.3	55.2
Minnesota, US	264	51.2	12.9	7.4	23.3	2.1	3.2	64.1	51.2	54.5	47.7
Ontario, Canada	491	39.1	14.2	4.0	31.5	7.2	4.0	53.3	39.1	40.8	37.8
Quebec, Canada	550	41.1	11.3	4.9	29.7	11.3	1.7	52.3	41.1	46.4	35.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041215 - S04\_14)  
 Label: Common characteristic of deserts  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	546	18.0	11.0	34.5	18.0	17.5	3.9	15.1	16.4	19.5
Armenia	581	28.9	9.2	33.0	28.9	10.5	7.2	11.2	27.9	29.8
Australia	601	43.7	12.6	22.6	43.7	14.3	2.1	4.7	40.5	46.8
Austria	694	63.3	8.5	15.9	63.3	6.4	3.2	2.7	61.5	64.9
Chinese Taipei	587	48.0	8.8	33.3	48.0	7.2	1.3	1.4	42.5	53.8
Colombia	684	28.5	10.9	17.0	28.5	21.2	3.9	18.4	28.3	28.7
Czech Republic	605	10.0	27.0	40.6	10.0	16.3	3.5	2.6	6.5	13.0
Denmark	491	37.2	20.8	26.5	37.2	7.7	1.7	6.1	35.0	39.6
El Salvador	593	13.6	23.1	21.0	13.6	27.5	4.8	10.0	13.2	13.9
England	625	31.5	21.5	28.7	31.5	9.8	4.3	4.2	28.8	34.3
Georgia	584	14.7	19.4	36.3	14.7	18.7	2.8	8.2	16.5	13.1
Germany	734	58.1	9.0	18.0	58.1	4.6	5.9	4.4	59.0	57.2
Hong Kong SAR	545	61.6	2.8	29.5	61.6	3.8	1.9	0.4	61.8	61.5
Hungary	578	57.1	11.3	12.7	57.1	7.5	4.8	6.6	52.6	61.5
Iran, Islamic Rep. of	552	31.0	13.7	17.6	31.0	23.4	3.1	11.1	34.4	28.0
Italy	606	50.3	14.4	16.6	50.3	12.2	1.6	4.8	52.2	48.5
Japan	636	66.0	8.0	15.6	66.0	1.9	5.6	2.8	68.4	63.7
Kazakhstan	570	63.7	3.9	17.4	63.7	14.2	0.4	0.4	65.0	62.3
Kuwait	553	16.5	12.5	29.6	16.5	21.3	5.0	15.0	18.7	14.4
Latvia	550	38.4	16.9	29.3	38.4	10.5	2.3	2.5	39.9	37.2
Lithuania	574	27.6	15.0	32.8	27.6	15.0	4.6	5.0	31.0	24.5
Morocco	505	17.5	8.2	29.3	17.5	20.9	5.4	18.7	19.6	15.5
Netherlands	477	63.5	11.2	12.9	63.5	8.5	1.6	2.4	60.7	66.0
New Zealand	694	27.3	14.0	32.8	27.3	17.1	4.8	4.0	26.3	28.3
Norway	587	29.6	23.9	27.9	29.6	6.8	1.7	10.1	27.5	31.7
Qatar	1007	17.7	14.8	38.4	17.7	16.4	2.9	9.7	18.3	17.2
Russian Federation	639	55.8	6.7	21.0	55.8	8.4	2.4	5.7	59.9	52.5
Scotland	547	26.0	15.8	32.0	26.0	17.2	3.1	5.9	23.3	28.6
Singapore	716	36.1	10.8	35.5	36.1	17.3	0.0	0.3	33.3	38.5
Slovak Republic	705	31.7	18.3	31.2	31.7	11.9	3.8	3.0	33.4	30.1
Slovenia	623	41.9	10.6	29.7	41.9	7.2	6.0	4.6	43.1	40.8
Sweden	668	34.3	27.6	23.1	34.3	8.7	1.3	5.0	37.8	31.0
Tunisia	.	.	.	.	.	.	.	.	.	.
Ukraine	620	37.0	9.0	31.2	37.0	13.4	4.4	4.9	36.8	37.1
United States	1120	47.0	15.2	22.2	47.0	11.1	1.5	3.0	45.6	48.8
Yemen	834	26.7	11.1	22.7	26.7	26.0	4.1	9.4	24.1	28.8
International Avg.	635	37.1	13.6	26.2	37.1	13.2	3.3	6.4	36.8	37.5
Alberta, Canada	582	29.5	15.8	32.9	29.5	16.9	1.6	3.4	24.1	34.4
British Columbia, Canada	577	25.0	19.6	36.8	25.0	11.7	3.0	3.9	24.8	25.2
Dubai, UAE	440	27.5	12.2	37.0	27.5	13.7	3.6	6.0	27.7	27.5
Massachusetts, US	254	45.5	17.3	20.3	45.5	8.2	2.7	6.1	38.0	53.1
Minnesota, US	264	53.7	13.3	20.4	53.7	7.9	0.8	4.0	49.4	58.2
Ontario, Canada	491	24.3	17.7	40.0	24.3	10.6	2.8	4.5	23.3	25.2
Quebec, Canada	550	32.3	11.4	28.7	32.3	18.8	5.5	3.2	31.4	33.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031255 - S05\_01)  
 Label: Animal that sheds its outer covering  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	34.2	14.8	34.2	18.2	24.3	6.3	2.1	33.5	34.9
Armenia	582	84.2	6.6	84.2	1.6	2.3	4.9	0.5	84.9	83.5
Australia	599	85.9	5.7	85.9	1.6	4.3	0.9	1.4	88.8	83.4
Austria	695	83.3	8.1	83.3	3.3	3.6	1.6	0.2	81.9	84.6
Chinese Taipei	594	85.0	9.9	85.0	2.6	2.4	0.1	0.0	82.0	87.8
Colombia	687	35.3	14.7	35.3	10.3	30.6	4.2	5.0	32.7	37.7
Czech Republic	598	67.7	18.7	67.7	4.0	6.0	3.1	0.5	65.8	69.2
Denmark	503	85.3	6.4	85.3	2.7	2.7	1.9	1.1	86.2	84.1
El Salvador	589	49.3	11.4	49.3	6.0	26.3	2.4	4.6	43.3	54.7
England	620	77.1	7.1	77.1	4.4	9.9	1.0	0.5	75.2	79.2
Georgia	584	61.3	12.4	61.3	6.9	12.9	4.9	1.6	60.5	62.1
Germany	740	86.5	7.2	86.5	2.7	2.0	1.4	0.2	86.0	86.9
Hong Kong SAR	543	69.8	22.8	69.8	4.4	2.7	0.4	0.0	63.9	75.0
Hungary	583	77.3	10.7	77.3	3.6	5.4	2.4	0.6	78.5	76.2
Iran, Islamic Rep. of	548	37.8	29.6	37.8	12.1	13.4	3.4	3.7	33.4	41.2
Italy	633	67.3	18.7	67.3	3.6	8.1	1.1	1.2	63.0	71.6
Japan	640	86.1	7.1	86.1	2.4	2.3	1.2	0.9	85.0	87.2
Kazakhstan	570	75.7	16.4	75.7	2.5	4.3	1.2	0.0	72.3	79.2
Kuwait	555	30.3	32.6	30.3	12.3	13.8	7.1	3.8	27.6	33.3
Latvia	548	80.1	12.2	80.1	3.5	2.0	1.8	0.5	75.7	83.4
Lithuania	580	52.8	26.2	52.8	9.9	7.3	3.3	0.5	44.3	60.5
Morocco	514	32.2	20.6	32.2	17.5	17.9	6.5	5.3	30.5	34.5
Netherlands	476	64.9	15.7	64.9	9.2	8.5	1.5	0.2	59.7	70.0
New Zealand	687	64.1	12.8	64.1	7.3	13.3	1.3	1.2	63.4	64.8
Norway	595	60.8	24.9	60.8	3.6	6.7	1.6	2.4	59.7	61.8
Qatar	1002	33.6	19.2	33.6	22.3	17.8	5.2	2.0	36.7	30.2
Russian Federation	643	78.4	13.9	78.4	3.4	1.0	1.5	1.7	79.9	77.0
Scotland	550	67.6	14.3	67.6	3.8	12.7	0.7	1.0	65.3	69.9
Singapore	717	76.7	11.0	76.7	5.9	6.3	0.1	0.0	75.8	77.5
Slovak Republic	699	76.2	11.6	76.2	3.5	7.1	1.1	0.6	73.6	78.7
Slovenia	620	40.0	32.2	40.0	7.9	16.5	3.1	0.4	38.3	41.8
Sweden	663	90.9	4.5	90.9	1.8	2.1	0.6	0.0	91.3	90.6
Tunisia	586	38.6	16.2	38.6	12.8	11.2	14.6	6.8	35.3	41.6
Ukraine	603	61.0	22.0	61.0	6.0	5.1	5.3	0.5	55.5	66.3
United States	1131	89.4	3.3	89.4	1.7	4.5	0.7	0.4	88.6	90.3
Yemen	834	28.5	13.7	28.5	22.4	26.5	7.1	1.9	26.5	30.1
International Avg.	635	64.3	14.9	64.3	6.9	9.5	2.9	1.5	62.4	66.1
Alberta, Canada	587	86.9	5.5	86.9	2.2	3.7	0.8	0.7	87.1	86.8
British Columbia, Canada	576	87.4	5.1	87.4	1.7	5.0	0.5	0.3	89.4	85.3
Dubai, UAE	440	52.8	23.8	52.8	9.5	10.6	3.1	0.3	54.0	51.7
Massachusetts, US	255	93.5	2.7	93.5	1.2	1.9	0.3	0.4	92.4	94.5
Minnesota, US	263	86.3	3.2	86.3	2.5	6.7	0.8	0.4	86.5	86.1
Ontario, Canada	509	77.6	7.9	77.6	5.3	7.4	1.0	0.8	75.8	79.2
Quebec, Canada	546	65.4	15.9	65.4	6.4	9.4	2.0	0.9	60.6	70.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031240A - S05\_02A)  
 Label: Functions of human skeleton  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	3.3	4.6	14.5	0.4	1.3	1.2	42.1	29.8	2.8	22.8	22.3	23.3
Armenia	584	10.7	16.5	28.6	2.4	2.2	1.5	17.2	20.5	0.5	58.2	56.2	60.2
Australia	599	6.5	19.2	30.1	0.0	0.2	19.9	18.4	4.0	1.6	55.9	56.8	55.1
Austria	695	3.2	42.3	32.9	0.3	1.0	6.7	8.2	5.0	0.3	78.8	77.0	80.4
Chinese Taipei	594	7.3	30.8	31.1	0.0	0.2	8.5	8.5	13.7	0.0	69.2	66.9	71.3
Colombia	687	1.5	17.8	34.1	0.4	1.2	5.1	27.0	7.0	5.9	53.9	47.9	59.2
Czech Republic	598	4.3	13.6	55.8	2.2	0.4	10.8	8.0	3.5	1.4	75.9	82.7	70.3
Denmark	503	3.8	29.7	36.8	0.7	0.1	12.6	9.0	5.9	1.4	71.1	70.3	71.9
El Salvador	590	1.1	13.8	30.0	0.2	1.0	8.6	24.4	15.7	5.2	45.2	42.2	47.8
England	620	8.7	32.7	24.0	0.0	0.9	20.4	11.1	1.2	0.9	65.4	67.7	62.9
Georgia	584	1.8	16.7	33.9	2.8	0.7	2.9	21.2	17.9	2.2	55.2	51.8	58.1
Germany	740	1.8	31.8	36.6	0.6	0.7	12.7	10.8	4.7	0.4	70.7	71.7	69.9
Hong Kong SAR	543	17.4	54.8	11.0	0.5	0.2	1.2	10.4	4.5	0.0	83.8	86.2	81.6
Hungary	583	3.6	36.0	33.3	1.3	2.4	6.8	11.2	4.7	0.7	74.1	76.1	72.3
Iran, Islamic Rep. of	548	1.5	25.1	23.0	1.0	2.3	10.3	24.3	8.5	3.9	50.7	52.5	49.2
Italy	641	3.3	43.9	31.2	0.5	1.7	5.4	6.4	5.8	1.7	78.9	77.0	80.9
Japan	640	6.0	22.3	42.1	0.0	0.2	7.3	18.8	2.2	1.1	70.4	71.3	69.4
Kazakhstan	570	4.1	55.0	24.1	1.7	0.2	3.5	8.5	3.0	0.0	84.9	84.8	85.1
Kuwait	555	3.6	3.5	19.5	0.5	0.9	0.8	31.4	35.5	4.4	27.1	30.1	23.8
Latvia	548	1.4	20.5	39.7	0.6	2.3	8.8	24.1	2.0	0.6	62.2	67.2	58.4
Lithuania	580	4.3	28.3	36.1	4.1	0.9	11.4	11.4	3.0	0.5	72.8	67.9	77.2
Morocco	543	1.9	2.3	9.1	0.6	0.4	1.6	26.6	51.2	6.4	13.9	17.6	10.1
Netherlands	476	2.3	53.2	26.1	0.0	0.0	1.2	16.3	0.5	0.5	81.5	81.0	82.0
New Zealand	687	5.7	17.7	34.8	0.2	1.4	21.5	12.7	4.7	1.2	58.5	58.0	58.9
Norway	595	2.0	26.5	40.8	0.3	0.3	11.3	13.5	2.5	2.6	69.7	72.2	67.4
Qatar	1002	1.3	4.1	17.7	0.1	3.2	1.2	39.5	30.6	2.4	23.2	26.4	19.7
Russian Federation	643	6.5	17.3	49.6	4.0	0.3	7.5	9.8	3.2	1.7	77.4	79.9	75.0
Scotland	550	5.3	29.6	27.9	0.2	0.2	19.9	13.5	2.2	1.1	63.1	64.2	61.8
Singapore	717	16.9	29.5	24.6	0.2	0.2	22.5	5.5	0.6	0.0	71.2	69.0	73.2
Slovak Republic	699	4.4	22.1	53.8	0.2	0.2	4.0	11.3	2.9	1.0	80.5	79.1	81.9
Slovenia	620	4.2	34.7	41.0	1.0	0.0	11.8	4.6	2.1	0.6	80.8	82.8	78.7
Sweden	663	3.3	32.8	38.1	0.8	1.6	8.7	10.3	4.2	0.0	75.1	76.2	73.9
Tunisia	586	4.7	1.2	25.2	0.0	0.3	1.4	43.5	16.2	7.6	31.1	29.8	32.2
Ukraine	603	7.6	10.7	48.3	0.3	0.1	3.5	22.4	6.3	0.8	66.9	66.6	67.1
United States	1131	7.9	16.2	38.6	1.1	1.3	19.4	14.4	0.8	0.4	63.8	61.8	65.9
Yemen	834	0.9	3.8	7.9	0.3	0.2	1.2	50.2	33.2	2.3	12.9	13.8	12.1
International Avg.	638	4.8	23.9	31.4	0.8	0.9	8.4	18.0	10.0	1.8	61.0	61.3	60.8
Alberta, Canada	587	5.8	17.8	39.7	0.3	1.4	17.8	15.0	1.2	0.9	63.7	65.1	62.3
British Columbia, Canada	576	4.9	19.4	40.5	0.8	0.6	18.0	13.7	1.7	0.4	65.6	68.4	62.6
Dubai, UAE	440	4.6	16.1	33.1	0.4	1.1	14.3	17.0	12.8	0.5	54.2	53.7	54.7
Massachusetts, US	255	10.2	18.4	31.7	0.9	0.0	21.1	14.5	2.9	0.4	61.2	61.8	60.6
Minnesota, US	263	9.2	20.4	34.2	0.5	1.0	20.7	12.5	1.1	0.4	64.3	65.7	62.9
Ontario, Canada	509	3.1	24.4	38.2	0.1	0.5	14.8	16.6	1.5	0.8	65.7	64.9	66.5
Quebec, Canada	546	4.0	38.4	34.3	0.0	0.5	12.6	7.1	1.9	1.1	76.8	77.6	75.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031240B - S05\_02B)  
 Label: Functions of human skeleton  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	2.1	3.4	7.3	1.2	0.2	2.0	44.0	37.0	2.8	14.0	13.6	14.4
Armenia	584	5.3	12.4	15.7	2.8	2.0	3.4	24.4	33.6	0.5	36.1	36.8	35.3
Australia	599	13.4	5.7	22.2	2.0	0.0	11.2	36.6	7.4	1.6	43.2	42.1	44.3
Austria	695	14.1	12.3	25.3	1.1	0.7	7.0	26.6	12.6	0.3	52.8	54.1	51.7
Chinese Taipei	594	11.9	8.7	20.1	0.5	0.1	5.2	28.7	24.9	0.0	41.1	42.4	39.9
Colombia	687	0.9	6.4	14.5	1.0	0.6	8.5	50.6	11.5	5.9	22.9	22.6	23.1
Czech Republic	598	12.6	8.0	16.3	0.9	0.8	10.3	33.2	16.6	1.4	37.8	38.3	37.3
Denmark	503	10.7	7.3	22.1	1.3	0.7	8.9	36.8	10.8	1.4	41.5	37.6	46.0
El Salvador	590	1.0	6.3	14.4	0.1	0.6	4.7	48.4	19.4	5.2	21.8	17.6	25.6
England	620	22.9	10.7	24.6	0.8	1.4	12.3	22.3	4.0	0.9	59.1	62.4	55.4
Georgia	584	1.3	7.9	16.1	2.2	1.2	0.6	33.2	35.3	2.2	27.4	24.8	29.7
Germany	740	6.5	11.4	24.4	0.4	0.0	11.1	32.3	13.5	0.4	42.7	39.2	45.8
Hong Kong SAR	543	29.0	16.6	20.1	0.3	0.1	1.6	22.1	10.2	0.0	66.0	67.2	64.8
Hungary	583	9.1	10.7	24.4	1.5	2.4	4.6	33.0	13.6	0.7	45.7	45.2	46.1
Iran, Islamic Rep. of	548	2.5	4.3	19.4	1.0	0.9	7.2	46.1	14.7	3.9	27.2	26.7	27.5
Italy	641	8.4	12.9	27.4	2.1	1.8	5.7	24.3	15.6	1.7	50.8	48.3	53.2
Japan	640	9.0	9.1	16.9	0.2	0.3	4.9	50.5	8.2	1.1	35.2	36.6	33.7
Kazakhstan	570	7.5	12.0	32.2	3.1	0.2	3.7	28.7	12.7	0.0	54.7	52.6	56.9
Kuwait	555	2.0	2.0	7.5	0.8	0.7	0.9	36.1	45.6	4.4	12.3	15.6	8.8
Latvia	548	5.7	10.0	24.7	0.2	0.7	9.7	42.7	5.8	0.6	40.5	39.0	41.6
Lithuania	580	11.3	9.1	23.9	3.2	0.8	6.3	33.6	11.1	0.5	47.6	49.8	45.6
Morocco	543	1.3	1.1	3.9	0.8	0.3	0.7	26.4	59.1	6.4	7.1	7.8	6.5
Netherlands	476	11.7	15.2	22.0	0.5	0.2	1.8	46.0	2.2	0.5	49.4	46.1	52.6
New Zealand	687	13.6	7.9	21.3	0.3	0.2	12.8	33.9	8.8	1.2	43.1	47.5	38.2
Norway	595	5.9	9.2	21.6	0.5	1.2	8.5	41.6	8.9	2.6	37.2	33.5	40.6
Qatar	1002	1.0	2.2	6.6	0.1	2.3	1.4	48.4	35.5	2.4	9.9	11.8	7.9
Russian Federation	643	16.5	7.5	21.3	1.9	0.7	7.3	31.2	11.8	1.7	47.2	52.6	42.4
Scotland	550	17.2	8.7	23.9	0.1	0.4	11.5	30.1	6.9	1.1	50.0	48.4	51.6
Singapore	717	29.7	13.2	21.4	0.0	0.2	17.0	17.0	1.5	0.0	64.3	64.1	64.5
Slovak Republic	699	13.4	12.4	15.5	1.4	0.3	2.9	38.9	14.1	1.0	42.8	39.6	46.0
Slovenia	620	17.0	13.9	20.1	3.4	0.6	9.6	26.0	8.9	0.6	54.3	51.0	57.9
Sweden	663	13.7	10.6	20.8	1.5	1.1	4.8	37.6	9.9	0.0	46.6	45.4	47.8
Tunisia	586	2.6	2.5	4.9	0.0	1.5	0.7	52.9	27.3	7.6	10.0	8.6	11.3
Ukraine	603	6.4	8.1	14.4	0.2	0.1	2.4	49.0	18.7	0.8	29.0	29.5	28.6
United States	1131	13.5	10.9	20.3	1.6	1.1	15.2	35.2	1.8	0.4	46.3	42.8	50.0
Yemen	834	1.5	1.1	3.5	0.5	0.1	1.0	45.7	44.2	2.3	6.7	7.5	6.0
International Avg.	638	9.8	8.7	18.4	1.1	0.7	6.3	36.0	17.3	1.8	37.9	37.5	38.3
Alberta, Canada	587	10.9	11.2	23.8	0.0	1.0	10.5	38.7	3.0	0.9	45.9	42.2	49.6
British Columbia, Canada	576	11.2	10.2	19.5	0.4	0.6	14.2	39.1	4.5	0.4	41.3	39.3	43.3
Dubai, UAE	440	6.5	10.2	20.7	1.0	2.1	8.5	33.4	17.1	0.5	38.4	39.3	37.7
Massachusetts, US	255	14.0	10.1	24.3	1.6	0.8	12.3	32.1	4.4	0.4	50.1	55.5	44.6
Minnesota, US	263	15.5	9.3	21.6	1.9	0.6	14.0	34.2	2.4	0.4	48.3	44.1	52.4
Ontario, Canada	509	10.1	11.1	20.6	1.1	1.7	9.9	41.0	3.6	0.8	42.9	47.2	38.9
Quebec, Canada	546	11.0	13.3	21.3	0.5	0.3	10.8	35.6	6.1	1.1	46.0	45.1	47.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031240D - S05\_02D)  
 Label: Functions of human skeleton/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT	V1	V2	1.GIRL %Right	2.BOY %Right
						REACH ED				
Algeria	603	10.0	17.0	41.1	29.2	2.8	26.9	10.0	9.7	10.3
Armenia	584	29.5	35.3	14.8	20.0	0.5	64.8	29.5	30.7	28.2
Australia	599	21.1	56.8	16.5	4.0	1.6	78.0	21.1	19.9	22.2
Austria	695	41.3	49.0	4.4	5.0	0.3	90.3	41.3	41.4	41.2
Chinese Taipei	594	31.8	46.8	7.8	13.7	0.0	78.6	31.8	29.7	33.7
Colombia	687	11.8	53.2	22.3	6.8	5.9	65.0	11.8	11.8	11.7
Czech Republic	598	28.2	57.3	9.8	3.3	1.4	85.5	28.2	32.0	25.0
Denmark	503	29.4	53.8	9.7	5.8	1.4	83.2	29.4	25.8	33.5
El Salvador	590	11.6	43.7	24.2	15.3	5.2	55.4	11.6	9.2	13.8
England	620	37.7	49.1	11.2	1.1	0.9	86.7	37.7	42.5	32.5
Georgia	584	18.7	45.2	16.4	17.5	2.2	63.9	18.7	16.4	20.7
Germany	740	30.4	52.7	12.0	4.5	0.4	83.1	30.4	29.2	31.4
Hong Kong SAR	543	61.7	26.4	7.5	4.5	0.0	88.0	61.7	63.6	59.9
Hungary	583	36.1	47.7	11.5	4.0	0.7	83.8	36.1	35.1	36.9
Iran, Islamic Rep. of	548	14.9	48.1	24.6	8.5	3.9	63.0	14.9	15.5	14.4
Italy	641	43.2	43.2	5.9	5.8	1.7	86.5	43.2	40.5	45.9
Japan	640	25.0	55.6	16.2	2.1	1.1	80.6	25.0	25.8	24.2
Kazakhstan	570	49.2	41.3	6.6	3.0	0.0	90.5	49.2	46.9	51.6
Kuwait	555	7.7	24.0	28.7	35.3	4.4	31.7	7.7	9.4	5.9
Latvia	548	22.6	57.5	17.3	2.0	0.6	80.1	22.6	23.8	21.7
Lithuania	580	34.3	51.8	10.4	3.0	0.5	86.1	34.3	34.6	34.0
Morocco	543	5.6	9.8	27.3	50.9	6.4	15.4	5.6	6.6	4.7
Netherlands	476	40.1	50.7	8.3	0.5	0.5	90.8	40.1	38.3	41.9
New Zealand	687	22.2	57.2	14.9	4.5	1.2	79.4	22.2	22.8	21.5
Norway	595	24.2	58.4	12.2	2.5	2.6	82.6	24.2	24.6	23.9
Qatar	1002	6.5	20.1	44.5	26.5	2.4	26.6	6.5	7.6	5.3
Russian Federation	643	35.5	53.7	5.9	3.2	1.7	89.1	35.5	40.3	31.1
Scotland	550	31.5	50.1	15.1	2.2	1.1	81.5	31.5	30.7	32.3
Singapore	717	40.5	54.6	4.3	0.6	0.0	95.1	40.5	38.3	42.3
Slovak Republic	699	35.9	51.5	8.7	2.9	1.0	87.4	35.9	32.4	39.4
Slovenia	620	43.1	49.0	5.2	2.1	0.6	92.1	43.1	39.4	47.0
Sweden	663	37.9	45.9	12.0	4.2	0.0	83.8	37.9	36.1	39.7
Tunisia	586	4.6	31.8	39.8	16.2	7.6	36.4	4.6	2.8	6.3
Ukraine	603	18.3	59.3	15.7	5.8	0.8	77.6	18.3	17.3	19.2
United States	1131	25.9	58.3	14.7	0.8	0.4	84.2	25.9	22.5	29.5
Yemen	834	3.1	13.4	53.8	27.5	2.3	16.5	3.1	2.6	3.5
International Avg.	638	27.0	45.0	16.7	9.6	1.8	71.9	27.0	26.6	27.4
Alberta, Canada	587	25.8	57.9	14.2	1.2	0.9	83.7	25.8	23.5	28.2
British Columbia, Canada	576	22.5	61.7	13.6	1.7	0.4	84.3	22.5	19.8	25.4
Dubai, UAE	440	23.4	45.7	17.9	12.4	0.5	69.2	23.4	22.4	24.3
Massachusetts, US	255	30.2	50.9	15.7	2.9	0.4	81.1	30.2	33.5	26.9
Minnesota, US	263	31.3	50.0	17.2	1.1	0.4	81.3	31.3	27.3	35.1
Ontario, Canada	509	27.2	54.1	16.8	0.9	0.8	81.4	27.2	29.0	25.7
Quebec, Canada	546	34.6	53.7	8.7	1.9	1.1	88.3	34.6	34.3	34.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031239 - S05\_03)  
 Label: Bird likely to eat small mammals  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	538	65.7	65.7	11.3	11.0	5.4	3.0	3.6	64.2	67.3
Armenia	582	53.6	53.6	9.2	25.0	3.9	7.7	0.6	54.4	52.8
Australia	598	80.5	80.5	4.3	10.6	2.1	0.8	1.8	77.8	82.9
Austria	695	71.0	71.0	10.7	8.3	7.5	2.2	0.3	74.0	68.4
Chinese Taipei	594	78.9	78.9	7.7	9.6	2.4	1.3	0.0	78.6	79.3
Colombia	687	61.6	61.6	15.0	6.8	5.9	2.7	7.9	60.9	62.2
Czech Republic	600	90.2	90.2	3.7	2.4	0.9	1.4	1.4	92.1	88.6
Denmark	502	91.9	91.9	1.0	2.3	2.2	0.8	1.8	92.6	90.9
El Salvador	589	62.6	62.6	13.3	7.7	8.3	1.7	6.4	57.9	66.8
England	620	77.1	77.1	6.8	11.2	2.9	1.0	0.9	80.7	73.3
Georgia	584	68.8	68.8	6.4	10.2	9.6	1.9	3.0	66.2	71.1
Germany	740	79.2	79.2	7.5	8.8	3.7	0.2	0.7	78.8	79.5
Hong Kong SAR	543	60.6	60.6	11.9	18.7	8.2	0.3	0.3	60.5	60.6
Hungary	583	91.4	91.4	1.9	2.4	1.3	1.9	1.2	91.7	91.0
Iran, Islamic Rep. of	548	76.5	76.5	4.5	10.5	3.5	1.1	3.9	80.6	73.2
Italy	632	79.4	79.4	8.2	6.1	2.6	1.5	2.1	78.0	80.9
Japan	640	62.5	62.5	11.4	12.6	10.5	1.7	1.2	59.3	65.8
Kazakhstan	570	70.6	70.6	10.9	13.8	4.3	0.4	0.1	74.6	66.5
Kuwait	555	77.6	77.6	2.7	6.1	5.2	3.3	5.1	80.7	74.2
Latvia	548	81.6	81.6	8.2	6.6	2.0	0.4	1.2	85.5	78.7
Lithuania	580	67.2	67.2	12.8	10.1	5.1	4.2	0.5	66.5	67.9
Morocco	514	53.7	53.7	11.0	16.7	8.0	2.8	7.7	50.3	57.4
Netherlands	476	70.9	70.9	8.4	16.6	2.7	0.5	0.9	68.2	73.6
New Zealand	687	77.4	77.4	5.9	10.0	4.3	0.8	1.5	77.3	77.6
Norway	595	55.5	55.5	9.9	10.4	18.2	2.7	3.3	47.1	63.0
Qatar	1001	55.5	55.5	11.5	16.4	10.0	3.7	2.9	50.8	60.5
Russian Federation	643	53.1	53.1	20.8	17.3	6.1	0.9	1.7	54.9	51.5
Scotland	550	84.3	84.3	6.6	5.3	2.2	0.2	1.4	87.9	80.6
Singapore	717	80.1	80.1	5.9	10.5	3.1	0.5	0.0	81.3	79.1
Slovak Republic	699	84.1	84.1	5.3	4.5	3.8	1.3	1.0	84.5	83.7
Slovenia	620	62.0	62.0	16.0	11.2	8.5	1.1	1.2	62.0	62.0
Sweden	662	78.9	78.9	7.5	6.8	4.9	1.6	0.3	77.7	80.2
Tunisia	586	35.0	35.0	13.5	13.9	7.0	22.0	8.6	36.2	33.8
Ukraine	603	52.2	52.2	15.5	16.2	9.5	5.3	1.3	51.3	53.1
United States	1131	83.2	83.2	5.8	7.8	2.0	0.7	0.5	83.3	83.2
Yemen	835	40.3	40.3	8.1	25.8	9.2	13.7	3.0	41.3	39.4
International Avg.	635	69.9	69.9	8.9	10.8	5.5	2.7	2.2	69.7	70.0
Alberta, Canada	587	84.5	84.5	5.0	6.4	2.4	0.7	0.9	85.3	83.8
British Columbia, Canada	576	85.1	85.1	4.1	8.3	1.7	0.2	0.5	85.2	85.0
Dubai, UAE	440	72.4	72.4	9.4	10.2	5.5	1.6	0.9	75.2	70.2
Massachusetts, US	255	84.8	84.8	3.8	6.5	2.2	1.7	1.0	85.6	84.0
Minnesota, US	263	84.3	84.3	2.3	9.3	2.0	1.6	0.4	83.7	84.9
Ontario, Canada	509	82.5	82.5	5.4	7.6	2.4	0.7	1.5	81.9	83.0
Quebec, Canada	546	83.0	83.0	4.4	6.9	2.1	2.4	1.2	82.9	83.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031235A - S05\_04A)  
 Label: Feature of fish and mammals/ fish  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	9.2	0.1	1.2	2.3	3.2	38.2	42.2	3.7	10.6	11.2	9.9
Armenia	582	41.1	1.8	2.3	6.6	0.5	10.6	36.4	0.6	45.3	51.3	39.3
Australia	599	49.6	1.1	0.0	13.1	5.2	15.0	14.2	1.8	50.7	51.8	49.7
Austria	695	46.0	0.1	0.0	18.2	4.1	11.6	19.7	0.3	46.1	40.3	51.4
Chinese Taipei	594	44.1	0.0	0.0	23.8	0.4	16.7	15.0	0.0	44.1	46.9	41.6
Colombia	687	15.8	0.1	0.0	28.3	4.2	21.9	20.1	9.6	15.9	13.5	18.0
Czech Republic	600	29.0	0.0	0.0	19.7	4.8	21.0	24.0	1.5	29.0	29.1	28.9
Denmark	503	51.9	0.1	0.9	13.0	2.3	17.0	12.8	1.9	53.0	49.9	56.5
El Salvador	590	15.8	0.0	0.6	13.0	3.1	37.2	23.4	6.8	16.5	18.1	15.0
England	620	44.5	0.7	0.0	23.6	2.7	15.9	11.3	1.2	45.2	46.4	44.0
Georgia	584	9.5	0.5	4.4	9.3	1.7	20.9	50.5	3.2	14.4	20.3	9.2
Germany	740	49.8	0.0	0.1	19.3	3.9	12.6	13.6	0.7	49.9	45.6	53.8
Hong Kong SAR	543	37.8	0.0	0.2	30.7	1.3	19.8	9.9	0.3	38.0	39.5	36.7
Hungary	583	65.6	0.0	0.0	15.8	0.8	8.4	8.0	1.5	65.6	71.4	60.2
Iran, Islamic Rep. of	548	24.4	0.1	0.2	13.3	0.3	31.8	25.5	4.6	24.6	28.5	21.5
Italy	641	54.7	0.6	4.8	13.8	0.2	8.3	15.3	2.4	60.1	57.0	63.0
Japan	640	29.4	0.0	0.0	34.9	0.1	25.9	8.4	1.2	29.4	27.1	31.8
Kazakhstan	570	34.0	0.1	0.0	26.6	2.2	26.7	10.3	0.1	34.1	30.2	38.0
Kuwait	555	31.2	0.0	1.3	1.9	1.3	25.0	34.1	5.1	32.5	37.0	27.7
Latvia	548	43.9	0.0	0.1	20.0	0.4	29.4	4.9	1.2	44.0	46.3	42.3
Lithuania	580	23.8	2.6	0.1	31.8	0.2	23.1	18.0	0.5	26.5	25.4	27.5
Morocco	543	5.7	0.3	0.4	3.9	4.5	28.7	48.3	8.1	6.4	5.7	7.2
Netherlands	476	49.2	0.3	0.0	24.9	1.2	17.0	6.5	0.9	49.5	47.8	51.1
New Zealand	687	39.6	2.8	0.3	17.8	6.0	19.1	13.0	1.5	42.6	43.7	41.5
Norway	595	26.6	0.0	0.4	18.4	5.9	24.7	20.5	3.5	27.0	28.0	26.1
Qatar	1002	8.2	0.0	0.1	2.9	4.0	37.9	44.0	2.9	8.3	8.4	8.2
Russian Federation	643	49.9	0.0	0.0	20.8	3.5	11.2	12.9	1.7	49.9	53.7	46.4
Scotland	550	44.1	2.1	0.0	18.0	5.6	12.0	16.9	1.4	46.2	43.1	49.4
Singapore	717	65.7	0.3	0.0	10.6	11.4	10.3	1.6	0.0	66.0	66.5	65.7
Slovak Republic	699	48.4	0.2	0.3	8.0	4.8	18.0	19.2	1.1	48.9	48.8	48.9
Slovenia	620	36.3	0.6	0.3	21.3	0.7	26.0	13.7	1.2	37.1	36.4	37.9
Sweden	663	47.1	0.2	0.0	24.2	0.6	10.7	16.5	0.7	47.3	43.6	51.1
Tunisia	586	17.2	0.1	0.0	4.0	0.8	37.8	29.8	10.3	17.3	19.6	15.2
Ukraine	603	22.1	0.1	0.2	16.1	6.5	21.3	32.5	1.3	22.3	22.7	22.0
United States	1131	57.1	1.0	0.4	13.3	8.3	13.6	5.7	0.5	58.5	62.7	54.1
Yemen	835	0.7	0.0	0.1	0.0	0.7	46.6	48.4	3.5	0.8	1.7	0.2
International Avg.	638	35.3	0.4	0.5	16.2	3.0	21.4	20.7	2.4	36.2	36.6	35.9
Alberta, Canada	587	49.5	3.1	0.1	14.2	7.4	15.9	8.7	1.1	52.7	50.6	54.8
British Columbia, Canada	576	53.1	1.4	0.0	13.0	4.9	15.6	11.5	0.5	54.5	54.8	54.1
Dubai, UAE	440	32.7	0.8	0.7	10.1	4.6	24.9	25.5	0.9	34.1	35.3	33.1
Massachusetts, US	255	68.5	1.8	0.8	11.7	4.1	8.6	2.9	1.7	71.1	70.0	72.1
Minnesota, US	263	59.1	0.9	1.7	11.4	5.3	14.8	5.8	1.0	61.7	61.4	61.9
Ontario, Canada	509	47.3	1.6	0.0	17.1	6.0	17.5	8.5	2.1	48.9	46.0	51.5
Quebec, Canada	546	38.9	0.2	0.6	27.0	3.9	16.5	11.1	1.6	39.7	35.5	44.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Applying (S031235B - S05\_04B)  
 Label: Feature of fish and mammals/ mammals  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	605	7.4	0.0	1.6	0.0	3.1	39.7	42.1	6.2	9.0	8.8	9.2
Armenia	583	34.0	4.7	6.9	0.8	1.1	12.7	38.4	1.5	45.6	50.4	40.8
Australia	599	32.7	8.6	0.3	8.1	3.0	27.5	18.1	1.8	41.5	45.7	37.8
Austria	695	33.8	0.1	4.7	1.8	31.2	27.1	1.2	34.0	35.5	32.7	
Chinese Taipei	594	28.3	0.2	0.0	6.3	0.2	39.3	25.6	0.0	28.5	26.9	30.0
Colombia	687	13.8	0.4	0.0	12.0	1.4	39.4	19.6	13.4	14.2	11.9	16.3
Czech Republic	600	33.1	0.1	0.0	6.2	3.2	26.6	29.2	1.6	33.2	35.6	31.2
Denmark	503	52.1	0.0	0.4	1.0	2.6	27.9	12.4	3.5	52.6	48.7	57.1
El Salvador	590	11.3	0.0	0.2	2.7	0.5	49.0	26.7	9.6	11.5	11.0	12.1
England	620	25.2	2.6	0.0	11.2	1.1	44.4	14.2	1.4	27.8	29.2	26.3
Georgia	584	9.6	0.3	2.9	1.1	1.2	31.1	49.5	4.3	12.8	17.6	8.6
Germany	740	38.6	0.0	0.0	4.4	2.5	36.0	17.0	1.5	38.6	37.7	39.4
Hong Kong SAR	543	30.7	0.0	0.2	13.1	0.8	42.2	12.7	0.3	30.9	29.4	32.2
Hungary	583	60.2	0.0	0.0	7.4	0.8	20.3	9.3	2.0	60.2	63.3	57.2
Iran, Islamic Rep. of	548	23.7	0.0	0.0	3.4	0.4	40.2	26.4	6.0	23.7	27.7	20.6
Italy	641	51.3	0.9	9.5	1.5	0.2	16.9	16.5	3.3	61.6	61.1	62.1
Japan	640	15.9	0.0	0.0	1.6	0.0	69.8	11.1	1.6	15.9	16.9	15.0
Kazakhstan	570	38.7	0.0	0.0	0.7	0.4	45.5	14.5	0.2	38.7	33.9	43.6
Kuwait	555	33.0	0.2	2.4	0.7	0.8	20.3	34.5	8.0	35.6	42.1	28.7
Latvia	548	37.2	0.5	0.1	1.0	0.5	51.9	7.5	1.3	37.8	42.6	34.2
Lithuania	580	22.6	3.4	0.5	12.1	0.0	37.7	22.2	1.5	26.5	28.0	25.2
Morocco	543	7.0	0.0	0.6	0.9	2.2	26.0	51.2	12.0	7.6	8.1	7.3
Netherlands	476	32.9	0.4	0.4	5.5	1.8	48.6	9.0	1.2	33.8	36.7	30.9
New Zealand	687	23.6	11.1	0.1	7.3	3.7	37.1	15.0	2.2	34.8	37.2	32.1
Norway	595	24.9	0.0	0.2	9.1	6.0	32.7	22.3	4.8	25.1	26.6	23.7
Qatar	1002	5.8	0.0	0.0	0.0	2.0	42.5	44.6	5.1	5.8	7.1	4.5
Russian Federation	643	24.8	0.3	0.0	0.4	0.6	56.0	15.9	2.1	25.1	25.3	25.0
Scotland	550	29.5	4.7	0.0	9.9	2.7	32.5	18.8	1.8	34.2	33.3	35.2
Singapore	717	65.8	1.4	0.0	7.8	9.3	13.5	2.2	0.0	67.2	67.5	66.9
Slovak Republic	699	52.1	0.2	0.0	2.2	4.0	20.4	19.7	1.5	52.3	53.2	51.3
Slovenia	620	42.1	0.3	0.7	5.2	0.6	33.3	15.6	2.2	43.1	44.2	42.0
Sweden	663	37.2	0.0	0.0	11.2	0.9	29.8	19.7	1.3	37.2	37.5	36.9
Tunisia	586	13.2	0.0	0.3	0.4	0.6	39.1	33.5	12.9	13.5	15.1	12.0
Ukraine	603	10.7	0.2	0.4	5.2	1.9	40.4	38.6	2.4	11.4	13.0	9.8
United States	1131	45.3	2.7	1.6	5.7	6.0	31.4	6.4	0.9	49.6	51.3	47.7
Yemen	835	2.1	0.0	0.1	0.0	0.2	34.2	56.8	6.5	2.2	3.1	1.5
International Avg.	638	29.2	1.2	0.8	4.7	1.9	35.2	23.4	3.5	31.2	32.3	30.2
Alberta, Canada	587	37.6	7.5	0.3	4.9	5.3	32.6	10.6	1.1	45.5	46.0	45.0
British Columbia, Canada	576	34.6	6.2	0.1	5.8	3.6	35.3	13.8	0.5	40.9	43.2	38.5
Dubai, UAE	440	28.5	1.0	1.0	2.8	2.1	34.8	28.1	1.8	30.4	36.0	26.0
Massachusetts, US	255	51.6	3.6	1.0	3.2	4.3	30.0	4.2	2.1	56.2	59.9	52.6
Minnesota, US	263	45.0	2.0	0.7	2.6	3.7	38.5	6.4	1.0	47.8	48.5	47.1
Ontario, Canada	509	34.4	5.2	0.0	7.2	2.5	37.6	10.4	2.8	39.5	38.3	40.7
Quebec, Canada	546	32.8	0.4	0.5	9.9	4.2	37.2	12.8	2.2	33.7	32.4	35.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031205 - S05\_05)  
 Label: Sugar dissolved in water  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	38.6	9.3	10.3	38.6	28.3	7.1	6.4	36.4	40.9
Armenia	579	34.5	16.9	9.5	34.5	24.4	13.1	1.5	34.4	34.7
Australia	599	62.2	8.4	11.0	62.2	15.6	0.9	1.9	65.2	59.6
Austria	695	62.6	6.1	10.9	62.6	16.8	2.3	1.2	66.8	58.8
Chinese Taipei	594	83.0	5.0	5.1	83.0	5.8	1.1	0.0	80.6	85.2
Colombia	687	20.8	14.0	8.7	20.8	36.4	5.7	14.4	20.2	21.3
Czech Republic	600	60.8	6.2	9.0	60.8	19.9	2.5	1.6	61.4	60.4
Denmark	503	62.3	10.2	10.8	62.3	11.4	1.7	3.5	64.9	59.4
El Salvador	590	24.5	17.9	16.3	24.5	28.5	3.0	9.8	19.7	28.8
England	620	63.5	8.3	9.5	63.5	15.7	1.6	1.4	64.1	62.9
Georgia	584	45.0	10.6	6.7	45.0	29.2	3.7	4.8	42.5	47.1
Germany	740	65.8	4.8	10.6	65.8	15.7	1.6	1.5	66.7	65.0
Hong Kong SAR	543	66.1	6.8	5.3	66.1	21.5	0.0	0.3	66.1	66.1
Hungary	583	66.6	4.5	7.6	66.6	16.4	2.8	2.2	68.8	64.4
Iran, Islamic Rep. of	548	35.8	11.3	13.2	35.8	30.2	2.9	6.7	36.3	35.3
Italy	638	46.5	8.2	6.0	46.5	31.8	4.1	3.4	42.9	50.1
Japan	640	76.2	7.2	6.4	76.2	6.7	1.7	1.8	78.5	73.9
Kazakhstan	570	70.0	3.9	7.0	70.0	18.1	0.8	0.2	73.5	66.4
Kuwait	555	33.1	10.7	15.1	33.1	27.2	5.8	8.0	35.8	30.4
Latvia	548	73.7	2.4	5.7	73.7	16.2	0.7	1.3	76.9	71.2
Lithuania	580	75.5	2.9	3.7	75.5	15.9	0.6	1.5	74.4	76.5
Morocco	521	36.3	12.1	12.1	36.3	20.5	7.2	11.7	34.5	38.7
Netherlands	476	55.3	7.8	16.7	55.3	18.3	0.6	1.3	56.3	54.2
New Zealand	687	58.4	10.4	8.7	58.4	19.0	1.3	2.2	62.7	53.5
Norway	595	53.1	12.2	13.9	53.1	14.0	2.0	4.9	51.0	54.9
Qatar	1002	26.6	17.9	20.3	26.6	24.3	5.5	5.3	27.5	25.6
Russian Federation	643	70.9	1.6	4.2	70.9	20.0	1.3	2.1	71.0	70.9
Scotland	550	50.8	13.6	13.9	50.8	18.0	1.8	2.0	51.2	50.4
Singapore	717	66.7	8.2	9.3	66.7	14.5	1.2	0.0	68.8	64.9
Slovak Republic	699	65.9	5.1	6.9	65.9	19.6	1.0	1.5	65.5	66.3
Slovenia	620	73.6	3.2	7.1	73.6	11.8	2.2	2.2	76.3	70.8
Sweden	663	63.5	7.8	12.1	63.5	13.6	1.3	1.6	62.3	64.8
Tunisia	585	33.0	7.0	10.7	33.0	22.3	13.9	13.2	31.9	33.9
Ukraine	603	63.4	2.9	3.9	63.4	25.5	1.9	2.4	60.4	66.3
United States	1131	51.8	9.9	9.3	51.8	27.2	0.8	1.1	53.5	49.9
Yemen	835	30.7	10.6	16.1	30.7	29.0	7.0	6.6	34.2	27.8
International Avg.	636	54.6	8.5	9.8	54.6	20.3	3.1	3.7	55.1	54.2
Alberta, Canada	587	64.1	7.4	8.6	64.1	18.2	0.5	1.2	65.6	62.6
British Columbia, Canada	576	53.6	12.0	10.5	53.6	20.9	1.4	1.6	55.9	51.2
Dubai, UAE	440	40.1	13.0	11.1	40.1	28.2	4.9	2.5	45.9	35.6
Massachusetts, US	255	52.5	9.2	7.2	52.5	26.2	2.8	2.1	50.6	54.4
Minnesota, US	263	46.6	13.1	9.1	46.6	28.9	1.3	1.0	47.9	45.3
Ontario, Canada	509	46.6	16.3	13.1	46.6	20.7	0.6	2.8	43.4	49.5
Quebec, Canada	546	51.6	10.7	9.6	51.6	23.5	2.3	2.3	46.7	56.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031399A - S05\_06A)  
 Label: Turn a liquid into a gas  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	13.5	15.7	0.4	1.9	0.4	27.1	33.4	7.5	29.6	29.8	29.4
Armenia	584	29.2	13.2	2.6	0.0	0.0	11.1	40.8	3.1	45.0	49.2	40.7
Australia	599	16.5	21.8	0.0	2.2	3.9	32.6	20.9	2.0	38.4	33.8	42.5
Austria	695	8.8	13.9	0.0	0.8	0.6	22.6	51.3	1.9	22.7	20.0	25.2
Chinese Taipei	594	27.8	30.2	0.0	1.1	1.0	15.2	24.5	0.4	57.9	54.1	61.4
Colombia	687	11.5	7.8	0.0	1.5	0.2	37.8	23.8	17.4	19.3	14.5	23.6
Czech Republic	600	27.7	14.6	0.2	0.0	0.1	20.3	35.1	1.9	42.6	38.8	45.7
Denmark	503	11.5	10.0	0.4	0.0	0.2	34.5	39.7	3.8	21.8	18.9	25.2
El Salvador	590	6.3	6.1	0.5	0.1	0.4	46.0	29.9	10.7	13.0	11.7	14.1
England	620	28.2	37.0	0.0	0.8	2.8	20.5	9.3	1.5	65.2	66.1	64.2
Georgia	584	16.7	5.3	0.4	0.0	0.4	16.4	55.5	5.4	22.3	29.3	16.3
Germany	740	8.7	21.6	4.5	0.8	0.1	24.8	37.5	1.9	34.8	25.4	43.2
Hong Kong SAR	543	12.0	61.2	0.3	0.8	0.4	15.2	9.8	0.3	73.5	72.3	74.5
Hungary	583	48.1	12.3	0.0	1.8	2.0	14.3	18.1	3.3	60.4	59.1	61.6
Iran, Islamic Rep. of	548	21.6	19.3	0.5	0.3	0.6	25.0	25.3	7.4	41.5	41.8	41.1
Italy	641	29.8	27.8	2.3	0.0	0.7	16.0	19.9	3.6	59.9	55.8	63.8
Japan	640	18.7	51.2	0.6	1.7	0.4	19.5	5.9	1.9	70.5	66.7	74.4
Kazakhstan	570	42.7	25.1	0.0	0.0	0.1	19.4	12.4	0.2	67.8	65.4	70.3
Kuwait	555	7.0	5.4	1.5	0.0	0.0	27.7	49.4	9.1	13.8	16.6	10.9
Latvia	548	35.2	12.6	0.1	0.1	0.8	34.1	15.1	2.0	47.9	46.2	49.2
Lithuania	580	10.3	10.0	0.0	0.3	0.7	40.6	36.4	1.6	20.3	15.4	24.8
Morocco	543	9.6	9.1	2.4	0.5	0.7	20.5	44.5	12.7	21.1	25.8	16.1
Netherlands	476	7.1	15.3	0.0	0.0	1.1	59.0	15.6	1.9	22.4	21.3	23.5
New Zealand	687	9.1	17.1	0.0	0.8	0.9	47.6	22.0	2.6	26.2	23.2	29.5
Norway	595	7.6	8.1	0.2	0.4	0.7	36.7	40.6	5.7	15.9	15.1	16.6
Qatar	1002	10.4	23.0	0.0	1.1	0.3	28.5	31.0	5.7	33.4	37.3	29.2
Russian Federation	643	38.4	17.6	0.0	0.8	0.8	18.9	21.4	2.1	56.1	58.2	54.2
Scotland	550	11.3	22.6	0.0	0.6	1.9	33.8	27.4	2.4	34.0	29.2	38.9
Singapore	717	60.8	26.1	0.0	0.2	0.3	11.5	1.1	0.0	86.9	84.0	89.5
Slovak Republic	699	36.0	15.4	0.2	0.0	0.7	16.5	29.3	1.9	51.6	48.2	55.1
Slovenia	620	11.2	41.9	3.9	0.4	0.6	22.3	16.8	2.8	57.0	55.1	58.9
Sweden	663	11.4	18.7	0.7	0.6	0.5	31.7	34.5	1.8	30.9	26.7	35.1
Tunisia	585	11.6	15.7	0.0	0.5	0.2	34.5	24.1	13.3	27.4	28.0	26.8
Ukraine	603	18.3	11.4	0.2	0.3	0.6	24.8	41.8	2.7	29.8	28.6	31.0
United States	1131	23.9	26.6	2.5	0.3	2.7	34.9	8.0	1.1	52.9	49.6	56.5
Yemen	835	4.9	10.7	0.4	0.0	0.0	39.4	37.1	7.5	16.0	17.0	15.2
International Avg.	638	19.5	19.5	0.7	0.6	0.8	27.3	27.5	4.2	39.7	38.3	41.1
Alberta, Canada	587	17.9	18.3	2.2	0.4	1.5	43.2	15.2	1.2	38.4	33.3	43.5
British Columbia, Canada	576	22.7	16.1	2.3	0.4	0.6	37.8	18.0	2.2	41.0	37.3	44.8
Dubai, UAE	440	26.0	24.9	0.5	1.2	0.9	20.8	23.0	2.9	51.3	50.6	51.8
Massachusetts, US	255	26.5	26.2	1.3	0.0	2.3	30.4	10.6	2.8	54.0	41.6	66.5
Minnesota, US	263	30.5	23.9	1.6	0.8	0.6	35.7	5.5	1.4	56.1	55.7	56.4
Ontario, Canada	509	18.9	19.1	2.4	0.7	2.5	41.4	12.3	2.8	40.3	35.1	45.1
Quebec, Canada	546	17.3	15.6	0.9	0.4	1.6	41.2	20.2	2.8	33.7	28.3	39.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031399B - S05\_06B)  
 Label: Turn a liquid into a solid  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	13.9	34.6	0.7	3.6	0.5	13.0	20.0	13.7	49.2	52.1	46.1
Armenia	583	39.3	6.2	3.1	0.4	0.0	8.5	39.3	3.1	48.7	50.2	47.1
Australia	599	40.0	14.5	0.0	1.2	0.4	25.3	15.4	3.2	54.5	47.4	61.0
Austria	695	6.0	17.6	0.0	1.7	0.0	22.3	49.6	2.7	23.6	22.5	24.7
Chinese Taipei	594	15.6	48.2	0.0	0.9	0.3	12.7	20.7	1.6	63.8	64.5	63.2
Colombia	687	8.3	11.9	0.1	2.4	0.9	37.3	18.8	20.4	20.2	14.3	25.4
Czech Republic	600	30.3	18.3	0.2	0.8	0.0	16.1	31.0	3.4	48.7	49.3	48.2
Denmark	503	14.1	5.1	0.9	0.6	0.3	33.6	40.7	4.7	20.1	17.3	23.4
El Salvador	590	4.0	9.6	0.1	0.6	0.4	44.1	26.3	14.9	13.8	12.9	14.5
England	620	53.4	28.2	0.0	0.8	0.7	10.2	5.0	1.7	81.6	83.8	79.2
Georgia	584	21.7	2.5	0.0	0.1	0.3	16.0	49.8	9.6	24.2	28.2	20.8
Germany	740	23.7	12.1	0.0	1.2	0.2	25.2	34.6	3.0	35.8	27.7	43.0
Hong Kong SAR	543	4.2	75.3	0.2	0.3	0.0	10.8	8.0	1.1	79.7	81.2	78.5
Hungary	583	46.9	18.3	0.0	1.2	1.6	15.6	11.6	4.9	65.2	65.0	65.4
Iran, Islamic Rep. of	548	15.3	37.0	0.3	0.7	0.2	19.6	17.2	9.6	52.7	56.3	49.8
Italy	641	14.8	41.3	0.5	0.1	0.9	19.1	18.3	5.0	56.6	51.5	61.7
Japan	640	16.4	54.1	0.0	1.7	0.2	19.5	5.9	2.0	70.5	67.2	73.9
Kazakhstan	570	35.5	41.5	0.0	0.0	0.0	12.7	8.2	2.1	77.1	77.6	76.5
Kuwait	555	6.7	12.7	1.4	0.5	0.0	19.3	41.1	18.3	20.8	28.0	13.1
Latvia	548	48.9	14.3	1.0	0.3	0.6	25.0	7.2	2.6	64.2	70.5	59.4
Lithuania	580	33.9	5.6	0.0	0.1	0.4	25.0	32.3	2.7	39.5	37.4	41.4
Morocco	543	8.2	16.3	3.0	0.5	1.1	15.3	33.8	21.7	27.5	31.2	23.8
Netherlands	476	7.0	8.2	0.0	1.1	0.2	61.4	20.2	1.9	15.1	13.8	16.5
New Zealand	687	29.6	15.1	0.0	0.5	0.5	33.4	17.3	3.6	44.7	42.2	47.6
Norway	595	5.5	4.8	0.0	0.9	0.3	42.3	39.2	7.1	10.3	9.3	11.1
Qatar	1002	8.4	30.7	0.0	1.0	0.4	26.2	20.7	12.6	39.1	43.9	33.9
Russian Federation	643	51.7	19.1	0.0	1.9	0.3	8.8	15.7	2.5	70.7	75.1	66.8
Scotland	550	36.7	13.1	0.0	0.8	1.0	21.5	23.1	3.8	49.8	47.2	52.6
Singapore	717	47.7	40.7	0.0	0.2	0.3	9.7	1.2	0.2	88.4	88.4	88.4
Slovak Republic	699	41.7	16.4	0.5	0.3	0.0	16.1	22.2	2.9	58.5	58.2	58.8
Slovenia	620	23.5	47.9	0.0	0.6	0.1	15.3	8.6	4.0	71.4	71.5	71.3
Sweden	663	16.7	12.3	0.3	2.3	0.6	29.8	35.6	2.4	29.3	23.6	35.1
Tunisia	585	14.3	23.7	0.0	0.5	0.0	26.7	16.4	18.4	38.0	40.1	36.0
Ukraine	603	26.7	16.0	0.2	0.0	0.0	19.6	31.7	5.8	42.9	44.0	41.9
United States	1131	47.5	17.2	0.2	0.4	0.9	25.5	6.7	1.6	65.0	62.8	67.2
Yemen	835	6.0	11.2	0.7	0.0	0.0	35.2	26.0	20.9	17.9	19.8	16.4
International Avg.	638	24.0	22.3	0.4	0.8	0.4	22.7	22.8	6.7	46.6	46.6	46.8
Alberta, Canada	587	46.1	14.4	0.7	1.1	0.3	25.6	9.8	2.0	61.2	59.7	62.7
British Columbia, Canada	576	44.2	16.5	0.2	0.3	0.1	20.9	14.6	3.2	60.9	59.5	62.3
Dubai, UAE	440	29.2	27.0	0.6	0.9	0.4	19.0	16.8	6.1	56.9	58.3	55.7
Massachusetts, US	255	58.2	13.9	0.4	0.0	0.6	15.2	7.8	3.8	72.5	70.7	74.3
Minnesota, US	263	47.1	14.7	0.7	0.0	2.2	29.2	4.7	1.4	62.5	66.1	59.1
Ontario, Canada	509	46.6	18.3	0.5	0.8	0.4	20.6	9.3	3.5	65.4	66.2	64.7
Quebec, Canada	546	10.3	43.5	1.9	0.8	0.3	23.5	15.5	4.4	55.6	52.8	58.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031393 - S05\_07)  
 Label: People should not drink sea water  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	600	20.3	19.4	5.4	0.0	2.1	22.2	16.0	14.6	45.1	46.2	43.9
Armenia	584	37.5	33.0	8.5	1.1	4.0	5.9	5.9	4.1	80.1	82.0	78.3
Australia	599	44.7	19.0	13.1	0.3	8.1	7.0	4.6	3.2	77.1	84.2	70.7
Austria	695	49.4	24.2	9.1	1.6	4.5	4.3	3.9	2.8	84.4	84.6	84.1
Chinese Taipei	594	54.0	24.3	6.9	0.0	1.6	8.0	3.6	1.6	85.2	87.5	83.1
Colombia	687	22.1	23.8	7.3	0.0	8.4	11.5	5.9	21.0	53.1	55.2	51.3
Czech Republic	600	53.4	13.0	12.1	0.0	2.7	11.2	4.1	3.4	78.6	79.3	78.0
Denmark	503	29.3	40.7	4.4	0.0	6.8	6.8	7.3	4.8	74.3	75.0	73.5
El Salvador	590	17.7	31.9	7.1	0.4	4.5	11.8	11.3	15.4	57.0	55.1	58.7
England	620	37.0	23.2	24.5	0.0	3.6	6.5	3.0	2.2	84.7	84.7	84.8
Georgia	584	32.7	18.6	8.4	1.3	2.8	10.0	16.4	9.8	61.0	68.7	54.4
Germany	740	43.2	31.9	12.7	0.0	2.3	5.1	1.8	3.0	87.8	86.0	89.5
Hong Kong SAR	543	22.9	53.8	2.0	0.6	2.3	15.5	1.6	1.3	79.3	81.3	77.6
Hungary	583	43.4	24.3	10.5	0.0	6.2	6.2	4.2	5.2	78.2	77.6	78.8
Iran, Islamic Rep. of	548	35.9	15.3	12.3	0.2	2.2	11.2	11.6	11.3	63.8	66.8	61.4
Italy	641	34.9	27.4	22.7	0.2	1.2	3.8	4.0	5.7	85.3	82.6	87.9
Japan	640	56.6	19.5	10.7	0.0	2.5	7.0	1.6	2.0	86.8	90.6	83.0
Kazakhstan	570	61.3	14.0	10.4	0.0	1.1	10.2	0.8	2.2	85.7	87.4	84.0
Kuwait	555	33.5	4.9	5.3	0.7	2.1	15.6	19.2	18.8	44.4	52.6	35.6
Latvia	548	37.6	29.5	22.9	0.0	0.1	6.2	0.8	2.9	90.0	92.8	87.9
Lithuania	580	31.2	34.4	17.6	0.0	3.2	8.0	2.3	3.3	83.2	87.0	79.7
Morocco	543	14.1	15.2	3.4	0.8	1.5	14.8	27.7	22.5	33.5	37.7	29.6
Netherlands	476	33.1	34.9	18.2	0.0	4.4	6.9	0.6	1.9	86.1	83.8	88.4
New Zealand	687	28.9	28.4	17.3	1.6	7.7	8.8	3.6	3.7	76.1	82.4	69.0
Norway	595	29.3	38.3	8.1	0.0	4.7	6.8	5.3	7.5	75.7	68.0	82.6
Qatar	1002	22.8	8.0	4.5	0.2	3.9	24.8	21.6	14.2	35.5	37.2	33.7
Russian Federation	643	36.5	33.0	16.5	0.0	2.9	5.0	3.5	2.6	86.0	88.3	84.0
Scotland	550	36.7	27.7	17.3	0.0	5.3	5.9	3.3	3.8	81.7	81.5	81.9
Singapore	717	34.0	42.4	16.7	0.0	1.5	4.2	1.0	0.2	93.2	93.2	93.1
Slovak Republic	699	42.0	25.3	13.8	0.0	4.8	8.2	2.9	3.0	81.1	81.6	80.7
Slovenia	620	53.1	12.5	19.7	0.0	3.4	4.1	3.2	4.0	85.3	86.9	83.7
Sweden	663	27.5	46.2	13.4	0.0	1.2	6.4	2.7	2.5	87.1	87.0	87.2
Tunisia	586	17.6	18.9	4.0	0.4	2.3	24.1	13.8	18.9	41.0	42.3	39.7
Ukraine	603	35.7	21.8	14.5	0.0	4.8	11.4	5.6	6.2	72.1	70.7	73.4
United States	1131	39.7	26.4	14.3	0.6	8.2	6.8	2.0	1.9	81.0	82.7	79.3
Yemen	835	10.3	5.0	1.1	0.0	1.9	32.5	26.2	22.9	16.5	16.7	16.3
International Avg.	638	35.0	25.3	11.6	0.3	3.6	10.1	7.0	7.1	72.1	73.5	70.8
Alberta, Canada	587	36.9	31.2	14.5	0.3	7.4	5.9	1.8	2.0	82.9	83.9	82.0
British Columbia, Canada	576	31.7	31.5	19.1	0.8	5.5	5.5	2.5	3.4	83.1	85.8	80.2
Dubai, UAE	440	40.8	16.8	13.1	0.5	5.1	9.5	7.4	6.7	71.2	76.7	66.8
Massachusetts, US	255	38.0	26.3	21.8	0.6	3.2	4.9	0.9	4.2	86.7	85.1	88.4
Minnesota, US	263	49.2	20.8	14.7	1.9	4.1	7.5	0.4	1.4	86.6	87.7	85.6
Ontario, Canada	509	26.2	39.7	14.1	0.7	9.9	4.1	1.7	3.6	80.7	87.6	74.4
Quebec, Canada	546	25.0	45.6	14.4	0.0	4.7	3.3	2.6	4.5	85.0	84.3	85.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031278 - S05\_08)  
 Label: One way Sun and Moon differ  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	603	16.0	3.3	1.2	1.1	9.6	29.9	20.6	18.4	21.6	20.6	22.5
Armenia	583	35.9	3.4	8.6	4.5	13.0	12.8	17.0	4.8	52.5	48.8	56.2
Australia	599	49.1	8.7	9.4	1.7	12.5	9.7	5.3	3.6	68.8	73.2	65.0
Austria	695	41.1	10.1	10.9	1.1	16.8	7.1	9.9	2.9	63.2	61.0	65.1
Chinese Taipei	594	47.7	15.4	2.7	0.8	22.0	6.8	3.2	1.6	66.5	64.8	68.1
Colombia	687	28.1	4.9	7.6	0.7	16.3	14.4	6.3	21.7	41.3	36.4	45.7
Czech Republic	600	47.0	3.5	6.3	0.6	26.8	8.1	4.0	3.7	57.5	50.6	63.0
Denmark	503	58.1	3.6	7.2	1.2	11.6	7.8	5.5	5.0	70.1	69.1	71.3
El Salvador	590	39.5	5.0	0.6	0.3	13.5	15.2	8.7	17.2	45.4	46.2	44.6
England	620	48.7	8.1	20.4	4.3	9.2	4.9	1.8	2.6	81.5	80.1	82.9
Georgia	583	43.9	11.8	4.7	3.3	10.5	6.0	9.1	10.7	63.7	70.2	58.0
Germany	740	35.3	17.1	7.6	0.5	19.7	8.5	7.6	3.7	60.5	58.7	62.1
Hong Kong SAR	543	46.1	5.1	3.6	1.2	33.3	7.6	1.6	1.4	56.1	52.1	59.6
Hungary	583	39.9	8.8	6.4	2.0	24.5	8.4	3.7	6.4	57.0	50.5	63.2
Iran, Islamic Rep. of	548	37.4	4.9	2.4	1.7	20.8	11.2	7.6	14.0	46.4	54.9	39.7
Italy	641	53.2	2.4	13.9	1.8	11.9	6.0	4.1	6.7	71.3	65.4	77.1
Japan	640	27.6	19.5	6.5	1.4	29.9	10.3	2.1	2.6	55.1	48.9	61.4
Kazakhstan	570	55.4	3.1	8.7	0.4	11.8	13.9	4.4	2.4	67.5	69.3	65.7
Kuwait	555	20.0	1.9	4.5	2.8	11.9	21.6	16.1	21.3	29.2	35.3	22.7
Latvia	548	57.7	7.2	12.5	1.4	10.0	7.2	1.1	3.0	78.8	81.9	76.4
Lithuania	580	46.2	7.4	9.8	1.1	16.9	12.1	3.3	3.3	64.4	65.5	63.4
Morocco	543	6.2	6.2	0.8	1.2	9.1	17.3	32.6	26.4	14.5	15.8	13.2
Netherlands	476	43.9	11.3	2.3	0.3	35.5	4.6	0.1	1.9	57.8	52.0	63.5
New Zealand	687	56.8	8.4	8.2	1.7	12.5	6.5	1.0	4.8	75.2	78.3	71.8
Norway	595	53.1	5.7	10.9	0.4	9.9	5.3	6.4	8.3	70.1	63.9	75.6
Qatar	1002	17.1	9.9	0.6	0.1	6.0	26.3	20.4	19.6	27.8	33.1	22.1
Russian Federation	643	49.5	4.6	19.3	0.2	13.7	3.8	6.1	2.9	73.6	74.0	73.2
Scotland	550	47.1	12.6	12.3	1.5	13.8	5.5	2.7	4.5	73.6	73.0	74.2
Singapore	717	82.8	1.8	1.3	0.4	8.5	3.7	1.1	0.3	86.4	85.3	87.3
Slovak Republic	699	57.0	1.2	16.7	1.0	11.2	6.9	2.8	3.3	75.9	71.6	80.2
Slovenia	620	49.3	5.1	7.2	1.3	23.0	7.0	2.2	5.0	62.8	59.0	66.9
Sweden	663	59.9	4.9	10.2	1.2	9.5	6.9	4.0	3.4	76.2	75.7	76.7
Tunisia	585	11.3	5.2	0.6	0.4	9.5	35.2	16.7	21.2	17.5	18.1	16.9
Ukraine	603	43.7	2.8	6.1	0.4	17.9	14.6	7.4	7.2	53.0	50.4	55.4
United States	1131	44.4	8.9	14.0	2.7	18.9	6.6	0.9	3.6	70.0	67.5	72.6
Yemen	835	4.1	0.3	2.0	2.7	3.8	38.0	20.6	28.5	9.1	9.7	8.6
International Avg.	638	41.7	6.8	7.4	1.4	15.4	11.6	7.4	8.3	57.3	56.4	58.1
Alberta, Canada	587	59.5	12.2	10.0	1.7	6.3	5.7	2.4	2.3	83.4	83.7	83.1
British Columbia, Canada	576	63.1	10.8	8.5	0.9	4.5	6.9	1.8	3.6	83.3	89.3	77.0
Dubai, UAE	440	46.7	9.9	7.8	0.4	5.4	11.3	10.7	7.8	64.8	71.2	59.7
Massachusetts, US	255	47.8	4.5	10.2	4.2	20.7	6.8	0.7	5.1	66.6	67.8	65.4
Minnesota, US	263	43.6	9.3	14.0	5.2	23.1	3.0	0.4	1.4	72.1	65.2	78.8
Ontario, Canada	509	59.7	12.1	7.6	1.3	6.1	5.8	3.1	4.3	80.6	81.1	80.2
Quebec, Canada	546	36.9	8.7	8.6	2.2	13.4	17.4	6.6	6.1	56.5	51.3	62.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041117 - S06\_01)  
 Label: Force causing boat to sail  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	589	84.7	4.5	84.7	4.1	5.8	1.0	0.0	83.7	85.7
Armenia	582	81.2	6.1	81.2	6.0	2.8	3.5	0.4	79.4	83.1
Australia	586	92.8	2.7	92.8	2.7	0.8	0.9	0.0	92.3	93.3
Austria	698	95.9	1.4	95.9	0.8	0.7	1.3	0.0	94.2	97.4
Chinese Taipei	593	98.3	1.3	98.3	0.0	0.1	0.3	0.0	97.6	98.8
Colombia	693	76.2	14.2	76.2	2.0	5.5	2.0	0.0	71.4	81.5
Czech Republic	594	94.7	1.9	94.7	1.6	1.3	0.5	0.0	94.8	94.7
Denmark	513	92.2	4.4	92.2	1.7	0.3	1.2	0.2	88.9	95.5
El Salvador	592	74.8	13.9	74.8	4.2	5.8	1.3	0.1	72.2	77.1
England	615	85.3	6.6	85.3	4.9	1.5	1.7	0.0	79.9	90.7
Georgia	581	75.3	6.4	75.3	3.8	11.0	3.6	0.0	69.0	80.7
Germany	748	97.4	1.0	97.4	0.4	0.8	0.5	0.0	95.9	98.6
Hong Kong SAR	538	92.0	2.8	92.0	4.3	0.6	0.3	0.0	88.4	95.0
Hungary	580	95.1	2.2	95.1	1.7	0.3	0.8	0.0	95.9	94.4
Iran, Islamic Rep. of	544	80.2	8.7	80.2	4.2	5.1	1.7	0.0	75.8	83.7
Italy	633	95.4	2.1	95.4	1.0	0.6	1.0	0.0	94.1	96.6
Japan	644	84.5	10.4	84.5	3.3	0.3	1.1	0.4	80.2	88.6
Kazakhstan	571	87.8	7.0	87.8	0.9	4.2	0.2	0.0	86.0	89.5
Kuwait	542	84.9	7.8	84.9	2.6	1.6	1.9	1.2	84.6	85.2
Latvia	563	95.7	1.4	95.7	1.5	1.0	0.4	0.0	95.9	95.5
Lithuania	577	91.0	4.2	91.0	1.6	1.6	1.7	0.0	93.0	88.9
Morocco	535	73.7	5.2	73.7	10.8	9.0	1.2	0.2	72.0	75.2
Netherlands	471	94.8	3.5	94.8	0.7	0.5	0.5	0.0	94.5	95.2
New Zealand	687	90.8	3.9	90.8	2.6	1.7	0.7	0.2	88.0	93.7
Norway	584	89.7	7.6	89.7	0.8	0.5	1.0	0.4	84.8	93.9
Qatar	998	74.2	10.1	74.2	8.5	3.9	2.7	0.5	73.0	75.6
Russian Federation	640	96.8	1.5	96.8	0.5	0.7	0.4	0.0	95.4	98.3
Scotland	555	93.7	3.5	93.7	1.5	0.9	0.4	0.0	89.9	97.4
Singapore	726	90.3	6.5	90.3	2.1	0.5	0.5	0.0	88.5	92.2
Slovak Republic	701	87.9	7.7	87.9	1.7	1.6	1.1	0.0	84.8	90.9
Slovenia	613	96.1	1.1	96.1	1.1	1.2	0.4	0.0	94.1	98.3
Sweden	665	93.5	5.2	93.5	0.5	0.3	0.6	0.0	91.2	95.6
Tunisia	584	77.4	4.3	77.4	7.0	3.2	7.6	0.5	80.0	75.3
Ukraine	607	92.6	3.3	92.6	2.0	1.6	0.5	0.0	90.0	95.2
United States	1135	91.9	3.9	91.9	1.7	1.4	1.1	0.1	88.7	95.0
Yemen	836	55.1	9.9	55.1	14.8	14.4	5.3	0.5	57.7	53.0
International Avg.	636	87.6	5.2	87.6	3.0	2.6	1.4	0.1	85.7	89.4
Alberta, Canada	582	92.6	1.9	92.6	4.2	0.4	1.0	0.0	89.6	95.5
British Columbia, Canada	582	94.4	1.5	94.4	2.2	0.9	1.1	0.0	93.3	95.3
Dubai, UAE	428	84.0	7.2	84.0	5.3	2.2	1.0	0.2	83.9	84.1
Massachusetts, US	253	95.3	1.7	95.3	1.4	0.4	0.8	0.4	93.9	96.7
Minnesota, US	262	95.3	1.9	95.3	1.8	0.6	0.4	0.0	95.2	95.4
Ontario, Canada	506	94.1	2.7	94.1	2.9	0.0	0.3	0.1	89.6	98.3
Quebec, Canada	531	91.5	5.7	91.5	1.2	1.4	0.2	0.0	89.6	93.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041120 - S06\_02)  
 Label: Objects that produce light  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	558	55.9	14.3	7.4	55.9	20.6	1.8	0.0	57.4	54.2
Armenia	570	51.4	24.0	5.5	51.4	12.5	5.9	0.7	50.4	52.5
Australia	584	43.1	8.9	5.5	43.1	38.4	4.1	0.0	41.4	44.7
Austria	698	51.5	8.8	3.0	51.5	32.4	4.3	0.0	42.7	59.5
Chinese Taipei	593	41.2	6.7	2.7	41.2	47.5	1.9	0.0	33.8	47.3
Colombia	693	47.6	16.3	5.0	47.6	28.1	2.8	0.2	50.1	44.9
Czech Republic	594	79.1	4.7	1.1	79.1	12.2	2.9	0.0	74.2	82.9
Denmark	509	36.1	7.6	6.1	36.1	47.1	2.9	0.2	29.5	42.7
El Salvador	590	51.9	20.3	5.0	51.9	20.7	2.0	0.1	47.7	55.6
England	615	48.3	5.7	4.1	48.3	37.2	4.8	0.0	41.9	54.7
Georgia	581	60.9	17.4	3.5	60.9	13.6	4.6	0.0	59.8	61.8
Germany	748	49.4	6.1	3.5	49.4	35.8	5.2	0.0	39.5	57.8
Hong Kong SAR	538	27.0	3.7	0.6	27.0	68.0	0.7	0.0	20.0	33.0
Hungary	580	40.6	4.2	5.1	40.6	45.4	4.6	0.0	38.0	43.1
Iran, Islamic Rep. of	544	51.9	7.7	4.0	51.9	34.3	2.1	0.0	47.3	55.5
Italy	625	73.4	5.2	1.2	73.4	18.8	1.2	0.2	69.1	77.2
Japan	644	30.5	7.8	18.3	30.5	39.9	3.1	0.4	28.0	32.7
Kazakhstan	571	57.2	6.6	3.7	57.2	32.4	0.1	0.0	62.7	52.0
Kuwait	542	60.9	16.8	4.3	60.9	11.1	5.6	1.3	64.0	57.5
Latvia	563	52.8	7.0	2.6	52.8	33.5	4.1	0.0	52.2	53.1
Lithuania	577	61.0	6.6	5.1	61.0	20.4	6.9	0.0	63.7	58.2
Morocco	531	49.8	17.4	9.6	49.8	20.1	3.0	0.2	52.3	47.4
Netherlands	471	56.4	6.6	4.7	56.4	28.9	3.2	0.2	47.4	66.0
New Zealand	687	47.0	8.3	8.7	47.0	32.8	3.0	0.2	42.4	51.7
Norway	584	34.5	8.1	7.1	34.5	46.7	3.1	0.5	28.8	39.4
Qatar	998	43.5	19.3	12.0	43.5	20.1	4.5	0.7	46.5	40.2
Russian Federation	640	59.9	10.2	1.9	59.9	26.4	1.7	0.0	56.4	63.6
Scotland	555	45.6	8.2	5.4	45.6	38.5	2.0	0.2	41.5	49.7
Singapore	726	75.8	3.1	1.8	75.8	18.7	0.5	0.0	71.1	80.5
Slovak Republic	701	67.3	6.2	2.1	67.3	21.3	3.1	0.0	61.1	73.2
Slovenia	613	61.4	10.2	4.8	61.4	21.1	2.5	0.0	59.3	63.5
Sweden	663	46.9	8.7	4.8	46.9	36.4	3.2	0.1	35.8	57.4
Tunisia	584	42.3	19.2	5.5	42.3	14.2	18.3	0.5	40.1	44.1
Ukraine	607	62.7	6.0	3.3	62.7	24.8	3.2	0.0	59.5	66.1
United States	1135	53.8	5.4	3.9	53.8	35.4	1.4	0.1	47.3	60.2
Yemen	836	41.9	19.7	12.3	41.9	18.6	6.9	0.7	42.4	41.5
International Avg.	635	51.7	10.1	5.1	51.7	29.3	3.6	0.2	48.5	54.6
Alberta, Canada	582	59.3	4.8	3.0	59.3	31.6	1.4	0.0	57.2	61.3
British Columbia, Canada	582	51.7	5.6	5.1	51.7	34.6	3.0	0.0	44.1	58.8
Dubai, UAE	428	52.1	7.7	5.1	52.1	29.5	5.4	0.2	49.2	54.6
Massachusetts, US	253	51.1	5.8	3.1	51.1	37.9	1.7	0.4	43.1	59.2
Minnesota, US	262	50.6	10.2	5.2	50.6	33.3	0.8	0.0	46.1	55.5
Ontario, Canada	506	51.6	6.7	3.7	51.6	36.3	1.6	0.1	42.9	59.8
Quebec, Canada	531	44.9	8.6	3.5	44.9	38.7	4.3	0.0	32.5	58.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Knowing (S041003 - S06\_03)  
 Label: Living-nonliving things in a pond  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	605	29.4	64.1	6.2	0.3	29.4	27.9	30.9
Armenia	582	29.6	64.5	5.2	0.7	29.6	33.3	25.9
Australia	586	55.7	41.3	2.9	0.1	55.7	57.3	54.2
Austria	698	27.6	70.4	2.0	0.0	27.6	26.2	28.8
Chinese Taipei	593	24.4	73.5	2.0	0.0	24.4	23.8	24.9
Colombia	693	44.0	52.2	3.6	0.2	44.0	38.8	49.6
Czech Republic	594	56.8	41.2	2.1	0.0	56.8	54.7	58.4
Denmark	513	43.7	54.0	2.1	0.2	43.7	43.5	44.0
El Salvador	593	35.3	56.4	8.2	0.1	35.3	31.8	38.4
England	615	49.3	48.7	2.1	0.0	49.3	49.7	48.9
Georgia	581	30.6	66.4	2.9	0.0	30.6	24.9	35.6
Germany	748	38.0	61.0	1.0	0.0	38.0	37.4	38.4
Hong Kong SAR	538	48.6	50.3	1.1	0.0	48.6	52.6	45.3
Hungary	580	67.9	31.3	0.8	0.0	67.9	68.7	67.1
Iran, Islamic Rep. of	544	35.0	63.2	1.8	0.0	35.0	34.9	35.1
Italy	635	71.7	25.6	2.5	0.2	71.7	71.1	72.3
Japan	644	37.1	62.2	0.4	0.4	37.1	32.4	41.5
Kazakhstan	571	69.8	29.5	0.7	0.0	69.8	71.7	68.1
Kuwait	542	26.4	62.3	10.0	1.3	26.4	25.6	27.3
Latvia	563	60.8	39.0	0.2	0.0	60.8	62.4	59.8
Lithuania	577	48.5	50.1	1.4	0.0	48.5	47.6	49.5
Morocco	553	19.5	57.3	22.4	0.8	19.5	22.7	15.5
Netherlands	471	53.9	45.8	0.1	0.2	53.9	53.3	54.6
New Zealand	687	45.7	52.7	1.3	0.2	45.7	48.0	43.4
Norway	584	36.6	57.5	5.4	0.5	36.6	37.2	36.2
Qatar	998	23.1	66.8	9.4	0.7	23.1	21.6	24.7
Russian Federation	640	55.5	42.5	1.9	0.0	55.5	53.5	57.8
Scotland	555	47.4	50.3	1.8	0.4	47.4	44.7	50.1
Singapore	726	83.3	16.4	0.2	0.0	83.3	84.9	81.8
Slovak Republic	701	63.0	35.1	1.9	0.0	63.0	62.1	63.8
Slovenia	613	57.4	42.5	0.2	0.0	57.4	61.2	53.4
Sweden	665	42.0	56.7	1.2	0.1	42.0	44.5	39.7
Tunisia	584	17.5	70.2	11.7	0.5	17.5	14.9	19.7
Ukraine	607	46.0	49.4	4.6	0.0	46.0	47.0	44.9
United States	1135	54.7	44.1	1.0	0.2	54.7	54.0	55.4
Yemen	836	13.0	70.3	16.0	0.8	13.0	13.4	12.7
International Avg.	638	44.1	51.8	3.8	0.2	44.1	43.9	44.4
Alberta, Canada	582	63.1	35.4	1.5	0.0	63.1	61.9	64.3
British Columbia, Canada	582	57.9	40.9	1.2	0.0	57.9	62.7	53.4
Dubai, UAE	428	58.2	40.0	1.5	0.2	58.2	65.6	51.5
Massachusetts, US	253	65.5	33.3	0.8	0.4	65.5	67.9	63.0
Minnesota, US	262	59.4	39.8	0.8	0.0	59.4	62.1	56.4
Ontario, Canada	506	53.6	45.9	0.5	0.1	53.6	56.3	51.1
Quebec, Canada	531	54.5	44.7	0.8	0.0	54.5	53.8	55.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041224 - S06\_04)  
 Label: Flowering plant parts  
 Type: CR Key: -

COUNTRY	N	20	21	10	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	606	3.1	4.9	21.0	27.6	35.3	7.8	0.3	29.0	8.0	8.1	7.9
Armenia	582	8.5	13.0	15.9	30.6	13.6	17.4	0.8	37.5	21.5	23.9	19.0
Australia	586	3.5	7.7	38.0	23.9	24.0	2.4	0.5	49.2	11.2	10.1	12.2
Austria	698	6.8	17.5	36.4	23.5	11.5	4.2	0.0	60.8	24.4	24.0	24.8
Chinese Taipei	593	13.3	11.7	42.2	10.2	17.3	5.3	0.0	67.2	25.0	25.2	24.8
Colombia	693	4.1	5.9	30.3	23.7	31.8	3.9	0.2	40.3	10.0	7.0	13.3
Czech Republic	594	9.9	15.2	42.7	26.5	4.9	0.8	0.0	67.8	25.1	20.2	28.9
Denmark	513	8.7	6.9	41.6	21.7	15.3	5.6	0.2	57.3	15.6	17.1	14.1
El Salvador	593	4.4	2.5	19.2	24.9	40.8	7.9	0.3	26.1	6.9	5.0	8.7
England	615	11.4	13.1	38.7	16.8	17.8	1.9	0.2	63.2	24.5	26.1	22.8
Georgia	581	3.4	5.0	16.3	35.6	28.6	11.1	0.0	24.7	8.4	7.6	9.2
Germany	748	7.2	16.5	39.4	19.9	14.5	2.4	0.0	63.2	23.7	21.8	25.4
Hong Kong SAR	538	15.8	17.3	43.6	4.0	15.3	3.9	0.0	76.8	33.2	32.8	33.5
Hungary	580	19.5	19.0	36.2	21.3	3.4	0.7	0.0	74.7	38.5	39.0	38.0
Iran, Islamic Rep. of	544	5.3	13.4	33.5	20.1	21.0	6.7	0.0	52.2	18.7	19.4	18.1
Italy	635	24.3	9.5	32.6	17.5	11.5	4.5	0.2	66.4	33.8	34.7	33.0
Japan	644	6.5	14.5	56.3	14.4	7.1	0.7	0.5	77.3	21.0	14.5	27.1
Kazakhstan	571	27.9	17.6	17.5	17.5	17.1	2.3	0.0	63.1	45.5	44.4	46.6
Kuwait	542	2.3	1.6	42.8	8.1	22.2	21.3	1.7	46.6	3.9	4.7	3.0
Latvia	563	5.9	8.2	37.6	33.0	15.2	0.0	0.0	51.8	14.1	19.1	10.8
Lithuania	577	11.7	12.6	29.7	37.5	7.9	0.5	0.0	54.1	24.3	26.1	22.6
Morocco	553	0.8	1.1	8.9	8.1	58.1	21.0	2.0	10.8	1.9	2.7	0.9
Netherlands	471	7.0	12.4	51.4	18.7	7.0	3.3	0.2	70.8	19.4	18.2	20.8
New Zealand	687	3.0	8.5	42.9	17.0	25.5	2.9	0.2	54.4	11.5	8.4	14.6
Norway	584	1.1	3.5	28.8	31.6	29.9	4.0	1.2	33.3	4.5	4.6	4.5
Qatar	998	14.2	7.0	20.4	19.3	31.8	6.6	0.7	41.6	21.1	24.2	17.9
Russian Federation	640	9.6	13.8	37.8	21.6	15.3	2.0	0.0	61.2	23.4	23.4	23.3
Scotland	555	1.4	4.4	42.0	20.6	28.2	3.0	0.4	47.8	5.8	4.8	6.7
Singapore	726	56.8	22.0	12.7	4.6	3.6	0.4	0.0	91.4	78.8	79.4	78.1
Slovak Republic	701	12.0	10.8	35.0	33.1	7.4	1.7	0.0	57.8	22.9	19.0	26.5
Slovenia	613	4.2	8.2	36.6	36.9	13.8	0.2	0.0	49.1	12.5	10.6	14.4
Sweden	665	1.5	9.1	44.8	16.8	23.4	4.4	0.1	55.4	10.5	9.0	12.0
Tunisia	584	1.3	1.0	14.9	7.5	59.8	14.7	0.8	17.1	2.3	1.4	2.9
Ukraine	607	2.5	3.0	18.4	36.1	36.1	3.9	0.0	24.0	5.5	4.5	6.6
United States	1135	8.0	10.1	39.4	22.2	16.9	3.1	0.2	57.6	18.2	16.9	19.4
Yemen	834	0.8	0.4	3.3	15.3	66.2	13.2	0.8	4.5	1.2	1.6	0.9
International Avg.	637	9.1	9.7	31.9	21.3	22.2	5.4	0.3	50.7	18.8	18.3	19.3
Alberta, Canada	582	8.9	10.4	40.8	16.7	19.9	3.3	0.0	60.0	19.3	18.8	19.8
British Columbia, Canada	582	9.4	11.1	35.5	25.4	16.0	2.5	0.0	56.1	20.5	22.5	18.7
Dubai, UAE	428	15.3	14.6	29.9	20.1	15.2	4.6	0.2	59.8	29.9	32.9	27.1
Massachusetts, US	253	7.6	8.0	45.4	19.4	15.6	3.6	0.4	61.0	15.6	13.4	17.9
Minnesota, US	262	4.8	7.4	46.9	18.3	21.3	1.4	0.0	59.0	12.1	15.0	8.9
Ontario, Canada	506	12.4	11.2	39.8	17.4	16.1	3.1	0.1	63.4	23.6	28.9	18.6
Quebec, Canada	531	4.4	7.5	44.7	18.0	21.7	3.7	0.0	56.6	11.9	10.1	13.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041163 - S06\_05)  
 Label: Group of animals contains reptiles  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	.	.	.	.	.	.	.	.	.	.
Armenia	578	43.5	25.6	43.5	5.6	16.5	7.9	0.8	45.2	41.7
Australia	586	54.0	39.7	54.0	1.5	3.2	1.1	0.5	51.4	56.4
Austria	698	46.8	38.8	46.8	2.9	6.3	5.1	0.0	44.1	49.3
Chinese Taipei	593	65.8	15.4	65.8	1.9	14.1	2.6	0.2	68.7	63.5
Colombia	693	23.8	38.9	23.8	11.4	19.3	6.3	0.3	22.9	24.8
Czech Republic	594	40.7	24.7	40.7	5.1	27.4	2.0	0.0	37.7	43.1
Denmark	511	22.1	54.8	22.1	2.3	17.0	3.3	0.5	17.5	26.8
El Salvador	590	30.1	40.3	30.1	8.8	15.2	4.3	1.2	27.1	32.9
England	615	54.9	36.6	54.9	3.5	4.1	0.6	0.2	55.0	54.8
Georgia	581	14.2	53.0	14.2	5.7	24.1	2.9	0.0	11.4	16.7
Germany	748	53.4	35.1	53.4	3.3	5.4	2.8	0.0	48.7	57.3
Hong Kong SAR	538	50.3	31.9	50.3	3.1	14.2	0.5	0.0	47.9	52.3
Hungary	580	38.4	53.5	38.4	1.9	3.3	2.9	0.0	33.7	42.8
Iran, Islamic Rep. of	544	43.1	18.7	43.1	12.0	23.1	3.1	0.0	41.3	44.4
Italy	630	53.9	37.7	53.9	1.3	5.7	1.3	0.2	48.6	58.6
Japan	644	16.4	63.0	16.4	5.5	11.9	2.4	0.7	16.6	16.3
Kazakhstan	571	32.0	26.3	32.0	9.0	32.1	0.5	0.0	34.1	30.0
Kuwait	542	63.9	13.1	63.9	7.1	8.0	5.8	2.1	67.3	60.1
Latvia	563	39.5	29.6	39.5	7.6	22.1	1.1	0.0	36.5	41.5
Lithuania	577	54.2	29.5	54.2	7.6	6.4	2.3	0.0	54.3	54.1
Morocco	505	26.6	14.8	26.6	25.3	21.2	9.9	2.2	27.7	25.4
Netherlands	471	49.1	44.2	49.1	2.3	3.2	0.9	0.2	49.5	48.7
New Zealand	687	57.5	35.2	57.5	1.9	3.0	2.1	0.4	54.2	60.9
Norway	583	22.3	35.8	22.3	4.5	34.5	1.5	1.4	20.9	23.4
Qatar	998	47.3	21.3	47.3	12.7	14.0	3.5	1.2	46.1	48.6
Russian Federation	640	32.9	44.7	32.9	9.0	11.2	2.1	0.0	30.9	35.1
Scotland	555	43.3	48.1	43.3	2.0	3.6	2.6	0.4	41.9	44.6
Singapore	726	55.0	35.7	55.0	3.7	5.2	0.4	0.0	53.0	57.0
Slovak Republic	700	50.9	25.4	50.9	4.2	17.0	2.3	0.2	53.2	48.8
Slovenia	613	42.1	16.4	42.1	4.6	34.4	2.5	0.0	43.4	40.8
Sweden	664	27.1	32.5	27.1	10.1	28.0	2.3	0.1	24.2	29.8
Tunisia	584	21.1	13.3	21.1	16.0	24.7	23.4	1.5	19.8	22.1
Ukraine	607	36.5	37.0	36.5	9.2	15.3	2.0	0.0	35.2	37.8
United States	1135	57.3	37.8	57.3	1.4	2.6	0.5	0.5	51.1	63.3
Yemen	836	27.2	16.1	27.2	18.9	24.5	12.1	1.3	27.5	27.0
International Avg.	637	41.1	33.3	41.1	6.7	14.9	3.6	0.5	39.7	42.3
Alberta, Canada	582	50.3	45.8	50.3	1.0	1.4	1.4	0.1	50.1	50.5
British Columbia, Canada	582	49.3	44.3	49.3	1.6	2.7	1.7	0.3	44.7	53.7
Dubai, UAE	428	41.8	40.5	41.8	6.1	7.5	3.8	0.4	39.4	43.8
Massachusetts, US	253	60.6	36.7	60.6	0.3	1.3	0.8	0.4	57.8	63.3
Minnesota, US	262	52.9	40.2	52.9	2.6	2.0	2.2	0.0	46.8	59.6
Ontario, Canada	506	49.4	44.5	49.4	1.5	2.4	1.7	0.6	43.8	54.7
Quebec, Canada	531	54.7	39.0	54.7	1.1	2.8	2.4	0.0	51.7	57.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041039 - S06\_06)  
 Label: Better way of traveling around town  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	1.GIRL		2.BOY	
							V1	%Right	V1	%Right
Algeria	480	12.9	11.3	34.4	39.2	2.1	12.9	13.6	12.2	
Armenia	582	23.0	8.5	60.2	7.4	0.8	23.0	25.3	20.7	
Australia	586	53.9	16.3	28.9	0.1	0.8	53.9	53.9	53.8	
Austria	698	62.2	19.6	17.1	1.1	0.0	62.2	64.0	60.5	
Chinese Taipei	593	70.7	6.4	20.8	1.9	0.2	70.7	70.7	70.7	
Colombia	693	34.9	9.3	52.3	2.4	1.1	34.9	33.1	36.8	
Czech Republic	594	66.8	12.5	20.1	0.7	0.0	66.8	62.0	70.5	
Denmark	513	49.2	11.9	37.4	0.4	1.1	49.2	54.2	44.2	
El Salvador	593	26.2	5.1	63.9	2.9	2.0	26.2	24.3	27.8	
England	615	58.1	14.6	26.4	0.6	0.2	58.1	59.4	56.8	
Georgia	581	21.1	8.9	65.8	4.2	0.0	21.1	19.0	22.9	
Germany	748	68.2	15.9	14.8	0.8	0.3	68.2	64.9	70.9	
Hong Kong SAR	538	50.7	14.6	34.5	0.2	0.0	50.7	55.6	46.4	
Hungary	580	72.6	5.8	20.9	0.6	0.0	72.6	76.6	69.1	
Iran, Islamic Rep. of	544	56.1	9.7	32.8	1.4	0.0	56.1	66.8	47.7	
Italy	635	83.4	4.9	10.3	0.9	0.5	83.4	84.6	82.2	
Japan	644	64.5	20.1	14.3	0.0	1.0	64.5	63.1	65.9	
Kazakhstan	571	37.2	10.1	52.7	0.1	0.0	37.2	38.8	35.6	
Kuwait	542	16.3	3.0	72.9	5.5	2.4	16.3	18.4	13.9	
Latvia	563	53.0	11.9	35.1	0.0	0.0	53.0	56.4	50.7	
Lithuania	577	53.3	18.3	28.1	0.4	0.0	53.3	53.1	53.5	
Morocco	553	20.2	24.3	40.1	12.1	3.3	20.2	26.7	13.4	
Netherlands	471	69.1	16.5	13.5	0.7	0.2	69.1	67.3	70.9	
New Zealand	687	41.8	15.9	41.2	0.7	0.4	41.8	40.9	42.8	
Norway	584	43.4	13.2	41.6	0.4	1.4	43.4	43.0	43.7	
Qatar	998	11.9	1.4	82.9	2.1	1.7	11.9	13.5	10.2	
Russian Federation	640	52.9	6.9	40.3	0.0	0.0	52.9	53.0	52.8	
Scotland	555	44.0	21.9	32.3	0.2	1.7	44.0	41.5	46.5	
Singapore	726	51.1	7.1	41.3	0.5	0.0	51.1	50.8	51.4	
Slovak Republic	700	66.8	6.0	25.6	0.7	1.0	66.8	63.5	69.8	
Slovenia	613	80.7	9.1	10.1	0.1	0.0	80.7	81.5	79.9	
Sweden	665	71.5	10.5	17.6	0.0	0.5	71.5	77.3	66.0	
Tunisia	584	33.8	9.0	50.8	3.5	3.0	33.8	35.2	32.6	
Ukraine	607	26.5	3.0	68.8	1.7	0.0	26.5	24.9	28.0	
United States	1135	41.9	19.5	37.0	1.1	0.5	41.9	38.9	44.9	
Yemen	835	3.0	0.8	82.8	10.8	2.5	3.0	3.7	2.5	
International Avg.	634	47.0	11.2	38.0	2.9	0.8	47.0	47.8	46.3	
Alberta, Canada	582	58.5	24.7	15.0	1.6	0.1	58.5	54.4	62.7	
British Columbia, Canada	582	54.2	24.4	20.1	0.9	0.3	54.2	55.8	52.8	
Dubai, UAE	428	33.2	6.9	58.1	1.4	0.4	33.2	36.5	30.2	
Massachusetts, US	253	53.2	26.6	19.2	0.7	0.4	53.2	54.5	51.8	
Minnesota, US	262	49.5	22.8	25.7	1.1	0.9	49.5	52.4	46.2	
Ontario, Canada	506	56.8	21.6	19.7	1.4	0.6	56.8	62.1	51.7	
Quebec, Canada	531	54.4	29.0	15.7	0.7	0.1	54.4	54.6	54.3	

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041014 - S06\_07)  
 Label: One function of fruit  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	565	29.9	29.9	28.8	9.2	24.0	6.1	2.0	30.6	29.2
Armenia	577	37.2	37.2	17.5	5.5	19.5	19.3	1.0	34.1	40.3
Australia	586	28.3	28.3	23.2	13.6	32.5	1.5	0.8	32.7	24.3
Austria	698	32.2	32.2	14.1	6.0	43.8	4.0	0.0	28.7	35.4
Chinese Taipei	593	35.5	35.5	26.3	5.2	32.1	0.6	0.3	34.4	36.4
Colombia	693	28.6	28.6	22.1	6.6	36.8	4.1	1.8	28.3	28.8
Czech Republic	594	31.2	31.2	21.4	7.4	33.8	6.0	0.2	32.3	30.4
Denmark	511	24.4	24.4	27.5	7.9	31.1	8.0	1.1	27.3	21.5
El Salvador	591	36.2	36.2	17.8	6.3	34.6	3.1	2.0	33.6	38.7
England	615	31.4	31.4	24.7	11.8	30.0	1.9	0.2	33.5	29.4
Georgia	581	19.0	19.0	18.6	13.6	43.0	5.8	0.0	18.6	19.4
Germany	748	28.3	28.3	14.8	5.8	45.7	5.2	0.3	27.4	29.1
Hong Kong SAR	538	33.7	33.7	26.1	8.5	30.8	0.9	0.0	32.3	34.9
Hungary	580	27.6	27.6	26.0	12.0	30.8	3.5	0.0	25.7	29.4
Iran, Islamic Rep. of	544	32.3	32.3	25.1	11.7	27.6	3.2	0.0	32.8	31.9
Italy	628	41.2	41.2	10.6	11.3	33.6	2.8	0.5	42.6	39.9
Japan	644	25.4	25.4	38.8	9.1	25.0	0.7	1.0	22.7	27.9
Kazakhstan	571	39.2	39.2	31.6	4.4	23.0	1.8	0.0	41.8	36.8
Kuwait	542	17.1	17.1	20.3	8.9	45.5	5.6	2.6	13.0	21.8
Latvia	563	32.4	32.4	17.3	20.5	27.8	2.0	0.0	32.5	32.3
Lithuania	577	23.4	23.4	12.8	7.4	51.2	5.3	0.0	23.3	23.6
Morocco	522	35.2	35.2	24.5	13.3	19.7	3.9	3.4	41.4	28.2
Netherlands	471	28.7	28.7	22.3	14.1	33.3	1.4	0.2	26.0	31.6
New Zealand	687	24.7	24.7	33.0	14.4	24.9	2.6	0.4	24.4	25.1
Norway	584	28.3	28.3	8.3	9.3	50.6	2.0	1.4	31.1	26.0
Qatar	998	30.4	30.4	30.7	11.5	22.1	3.3	2.0	30.6	30.2
Russian Federation	640	30.2	30.2	35.3	4.8	27.0	2.7	0.0	27.0	33.6
Scotland	555	25.6	25.6	32.9	9.8	27.5	2.5	1.7	24.7	26.6
Singapore	726	50.3	50.3	22.8	8.1	18.5	0.3	0.0	52.2	48.3
Slovak Republic	700	36.1	36.1	25.4	9.6	22.5	5.4	1.0	37.8	34.5
Slovenia	613	30.2	30.2	26.2	10.9	29.5	3.1	0.0	28.5	32.0
Sweden	665	17.9	17.9	35.4	5.2	39.0	2.0	0.5	15.8	19.8
Tunisia	584	15.7	15.7	29.7	12.8	19.6	18.5	3.6	16.6	15.1
Ukraine	607	22.3	22.3	28.6	11.4	34.9	2.7	0.1	20.7	24.1
United States	1135	39.0	39.0	23.9	8.8	26.4	1.4	0.5	39.1	38.9
Yemen	834	17.4	17.4	26.1	19.8	25.7	8.1	3.0	18.3	16.6
International Avg.	635	29.6	29.6	24.2	9.9	31.2	4.2	0.9	29.5	29.8
Alberta, Canada	582	33.8	33.8	29.1	8.0	26.5	2.4	0.2	30.9	36.8
British Columbia, Canada	582	27.6	27.6	32.1	8.5	28.2	3.3	0.3	29.5	25.8
Dubai, UAE	428	35.7	35.7	23.7	8.4	27.3	4.5	0.4	35.4	35.9
Massachusetts, US	253	41.8	41.8	22.4	11.1	21.4	3.0	0.4	38.0	45.7
Minnesota, US	262	39.6	39.6	18.6	10.7	29.5	0.7	0.9	36.4	43.1
Ontario, Canada	506	22.9	22.9	28.4	11.7	32.6	3.7	0.6	23.8	22.1
Quebec, Canada	531	17.8	17.8	15.4	9.0	53.4	4.2	0.1	17.8	17.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041181 - S06\_08)  
 Label: Influenza passing between people  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	7.1	7.0	9.6	7.0	38.7	28.2	2.4	23.7	23.3	24.1
Armenia	581	21.5	12.7	16.8	20.6	10.5	16.7	1.4	51.0	49.2	52.8
Australia	586	36.7	10.9	2.8	9.6	19.3	19.6	1.0	50.4	49.1	51.5
Austria	698	42.4	12.2	9.1	13.5	9.9	12.9	0.1	63.6	61.7	65.5
Chinese Taipei	593	31.8	15.8	23.7	8.5	12.0	8.0	0.3	71.2	71.2	71.3
Colombia	693	2.3	2.7	1.7	7.4	50.1	32.7	3.1	6.7	6.4	7.0
Czech Republic	594	53.3	12.8	8.1	13.8	5.9	5.9	0.2	74.1	74.2	74.1
Denmark	513	51.7	15.0	2.3	4.8	14.5	9.4	2.3	69.0	74.1	63.8
El Salvador	593	35.7	18.6	2.6	9.4	20.5	10.2	3.0	57.0	62.1	52.4
England	615	44.0	17.2	5.1	12.7	13.3	7.4	0.4	66.3	69.6	62.9
Georgia	581	12.4	19.4	18.3	19.6	13.7	15.1	1.5	50.1	49.4	50.7
Germany	748	41.9	20.9	3.5	10.1	12.7	10.5	0.5	66.3	66.1	66.5
Hong Kong SAR	538	14.9	8.3	50.1	3.8	15.1	7.9	0.0	73.3	80.6	67.1
Hungary	580	62.3	6.8	4.4	11.3	10.3	4.6	0.3	73.5	74.0	73.1
Iran, Islamic Rep. of	544	17.0	19.3	5.6	12.6	19.3	25.4	0.6	42.0	50.4	35.4
Italy	635	35.2	11.0	3.1	29.5	8.8	11.4	1.0	49.3	46.4	51.9
Japan	644	52.2	6.5	10.9	11.7	14.6	3.1	1.0	69.6	69.0	70.2
Kazakhstan	571	53.0	15.7	21.8	2.1	6.1	1.3	0.0	90.5	93.5	87.7
Kuwait	542	13.3	1.7	4.9	6.3	29.5	40.3	3.9	19.9	20.4	19.4
Latvia	563	48.0	18.3	3.3	6.6	22.4	1.4	0.0	69.5	74.1	66.5
Lithuania	577	55.1	19.4	3.0	13.8	5.2	3.5	0.0	77.5	74.0	81.0
Morocco	553	3.0	3.5	4.6	1.8	27.1	56.1	3.9	11.1	14.9	6.9
Netherlands	471	58.7	14.9	1.4	8.7	14.7	1.5	0.2	74.9	75.6	74.1
New Zealand	687	50.3	15.9	5.0	6.5	13.5	8.4	0.5	71.2	73.7	68.6
Norway	584	44.9	8.9	5.2	6.4	18.4	14.3	1.9	58.9	59.4	58.5
Qatar	998	6.9	5.5	1.6	7.1	40.9	35.5	2.5	13.9	12.9	15.1
Russian Federation	640	61.2	6.0	11.1	7.0	9.8	4.3	0.7	78.3	81.9	74.4
Scotland	555	49.3	10.3	2.8	17.0	11.8	6.7	2.0	62.4	64.2	60.7
Singapore	726	40.5	14.5	6.6	14.1	20.3	3.9	0.1	61.6	63.9	59.4
Slovak Republic	700	58.3	8.8	8.6	13.8	4.0	5.6	1.0	75.7	77.4	74.0
Slovenia	613	48.8	10.1	4.0	23.9	8.8	4.0	0.3	62.9	61.9	63.9
Sweden	665	66.6	6.2	2.1	5.5	15.7	3.4	0.5	74.9	79.5	70.6
Tunisia	584	9.9	15.8	3.3	16.3	35.7	14.2	4.8	29.0	32.4	26.2
Ukraine	607	45.5	11.2	15.1	2.7	16.8	8.5	0.1	71.8	79.8	63.6
United States	1135	23.7	20.9	4.8	6.8	31.9	10.9	1.0	49.4	47.5	51.2
Yemen	834	4.0	0.8	3.9	1.6	41.1	45.1	3.4	8.7	8.0	9.4
International Avg.	637	36.2	11.8	8.1	10.4	18.4	13.8	1.3	56.1	57.5	54.8
Alberta, Canada	582	32.7	16.8	6.8	9.1	17.1	17.1	0.5	56.3	58.0	54.5
British Columbia, Canada	582	32.9	14.4	7.3	9.0	16.5	19.3	0.7	54.6	50.3	58.6
Dubai, UAE	428	20.4	6.6	6.1	9.8	24.9	31.1	1.1	33.1	36.6	29.7
Massachusetts, US	253	19.0	21.8	4.4	5.7	24.9	22.5	1.7	45.3	45.4	45.2
Minnesota, US	262	34.8	17.0	2.2	6.1	31.1	7.5	1.3	54.0	54.2	53.8
Ontario, Canada	506	34.3	15.9	7.2	9.1	14.9	17.7	1.0	57.3	56.1	58.5
Quebec, Canada	531	51.4	23.0	6.1	2.4	9.4	7.2	0.6	80.5	84.4	76.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041174 - S06\_09)  
 Label: Migration of birds  
 Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT	1.GIRL	2.BOY	
						REACH ED			V1
Algeria	604	10.3	9.8	44.6	32.6	2.7	20.1	20.3	19.9
Armenia	581	10.9	25.7	25.0	36.8	1.6	36.6	39.7	33.4
Australia	586	12.4	11.3	46.6	28.2	1.5	23.7	24.4	23.1
Austria	698	17.3	63.5	7.9	11.3	0.1	80.7	79.2	82.2
Chinese Taipei	593	6.8	10.8	54.4	27.8	0.3	17.5	14.3	20.2
Colombia	693	4.3	4.6	50.3	36.7	4.2	8.8	7.3	10.5
Czech Republic	594	13.4	53.1	18.1	15.1	0.2	66.5	68.2	65.2
Denmark	513	16.6	28.7	29.2	23.0	2.6	45.3	49.9	40.6
El Salvador	593	4.1	1.6	64.6	26.6	3.1	5.6	5.0	6.2
England	615	8.3	9.4	49.2	32.5	0.6	17.7	17.7	17.8
Georgia	581	6.9	9.6	38.7	42.7	2.2	16.4	16.6	16.2
Germany	748	6.7	19.4	43.9	29.5	0.5	26.2	25.8	26.5
Hong Kong SAR	538	8.0	14.8	56.3	20.9	0.0	22.8	17.5	27.3
Hungary	580	18.3	35.7	30.1	15.4	0.6	54.0	54.0	54.0
Iran, Islamic Rep. of	544	8.3	18.5	39.8	32.5	0.9	26.7	32.7	22.0
Italy	635	16.1	39.3	19.6	23.6	1.4	55.4	55.3	55.5
Japan	644	16.4	34.2	38.2	10.0	1.2	50.6	47.0	54.0
Kazakhstan	571	18.5	35.0	40.9	5.7	0.0	53.4	54.7	52.3
Kuwait	542	7.9	4.8	33.8	47.8	5.8	12.6	16.8	8.1
Latvia	563	10.4	14.0	54.6	21.0	0.0	24.4	19.5	27.7
Lithuania	577	16.0	24.5	29.7	29.8	0.0	40.5	40.4	40.6
Morocco	553	4.5	2.1	28.4	59.2	5.7	6.6	8.3	4.3
Netherlands	471	9.0	12.4	72.4	6.1	0.2	21.4	22.2	20.5
New Zealand	687	11.1	10.4	49.2	28.7	0.6	21.5	18.4	24.6
Norway	584	9.1	22.0	41.3	25.3	2.2	31.2	30.9	31.4
Qatar	998	5.7	3.4	45.7	41.9	3.3	9.1	10.1	8.0
Russian Federation	640	27.7	45.6	18.1	8.0	0.7	73.2	72.9	73.6
Scotland	555	7.2	8.7	42.8	39.3	2.0	15.9	15.9	15.8
Singapore	726	17.5	51.5	27.5	3.2	0.3	69.0	71.8	66.2
Slovak Republic	700	19.9	56.4	10.0	12.7	1.0	76.3	78.8	74.0
Slovenia	613	19.9	38.7	30.6	10.4	0.3	58.6	61.5	55.6
Sweden	665	21.7	41.7	21.1	15.0	0.5	63.4	68.0	59.1
Tunisia	584	3.8	6.2	47.5	36.8	5.7	10.0	11.9	8.4
Ukraine	607	5.5	13.4	42.8	38.1	0.2	18.9	18.6	19.2
United States	1135	11.7	29.2	48.5	9.3	1.3	40.9	37.6	44.0
Yemen	834	4.8	0.1	43.2	47.9	4.0	4.9	5.9	4.1
International Avg.	637	11.6	22.5	38.5	25.9	1.6	34.1	34.4	33.7
Alberta, Canada	582	11.3	35.1	35.6	16.7	1.3	46.4	44.4	48.5
British Columbia, Canada	582	11.7	34.2	33.7	19.6	0.8	45.8	45.5	46.1
Dubai, UAE	428	7.2	13.6	40.9	37.0	1.3	20.8	26.0	16.0
Massachusetts, US	253	12.7	38.5	33.7	13.0	2.2	51.2	52.5	49.8
Minnesota, US	262	12.1	39.5	40.8	6.3	1.3	51.7	53.5	49.7
Ontario, Canada	506	14.8	31.5	30.6	22.2	1.0	46.2	43.3	49.0
Quebec, Canada	531	14.3	20.8	34.8	29.5	0.6	35.1	35.5	34.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041049 - S06\_10)  
 Label: Properties of two materials  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	563	28.3	14.3	22.5	28.3	21.8	10.1	3.0	26.6	30.2
Armenia	578	43.4	11.0	12.8	43.4	7.5	23.4	1.8	40.2	46.7
Australia	586	47.0	17.7	21.4	47.0	7.9	4.4	1.6	49.7	44.6
Austria	698	52.1	15.9	15.8	52.1	9.3	6.6	0.3	50.7	53.3
Chinese Taipei	593	78.0	5.4	10.6	78.0	4.7	1.0	0.3	83.0	74.0
Colombia	693	17.7	16.5	30.9	17.7	23.2	5.9	5.8	16.3	19.2
Czech Republic	594	48.3	16.6	16.0	48.3	7.2	11.2	0.6	48.6	48.2
Denmark	511	49.0	15.2	12.0	49.0	8.4	12.0	3.4	49.1	49.0
El Salvador	591	24.2	20.8	29.3	24.2	16.8	4.2	4.6	26.2	22.4
England	615	48.7	19.5	19.0	48.7	9.4	2.8	0.6	50.7	46.6
Georgia	581	28.6	19.8	16.9	28.6	13.6	17.8	3.2	24.1	32.5
Germany	748	55.3	15.6	14.5	55.3	7.4	6.2	1.0	52.0	58.1
Hong Kong SAR	538	72.9	8.4	15.2	72.9	2.7	0.8	0.0	69.9	75.5
Hungary	580	64.1	13.1	12.2	64.1	6.0	3.7	0.8	60.8	67.2
Iran, Islamic Rep. of	544	35.3	16.7	21.9	35.3	15.5	9.8	0.9	40.2	31.3
Italy	633	55.8	16.1	15.3	55.8	5.8	5.3	1.6	55.6	56.0
Japan	644	75.0	6.6	9.8	75.0	6.4	1.0	1.2	72.1	77.8
Kazakhstan	571	70.5	6.6	16.9	70.5	5.1	1.0	0.0	69.4	71.4
Kuwait	542	28.1	19.7	24.4	28.1	11.6	9.8	6.4	27.9	28.3
Latvia	563	56.9	15.8	17.5	56.9	6.9	2.3	0.7	61.4	53.9
Lithuania	577	43.1	20.6	22.0	43.1	5.8	8.6	0.0	40.5	45.8
Morocco	523	25.6	10.2	27.0	25.6	19.8	10.5	6.9	22.5	29.2
Netherlands	471	58.5	15.1	17.9	58.5	5.7	2.6	0.2	60.3	56.5
New Zealand	687	42.7	19.2	22.2	42.7	9.3	6.0	0.6	43.4	41.9
Norway	584	39.8	21.6	18.7	39.8	8.7	8.4	2.8	36.2	42.9
Qatar	998	26.9	20.5	31.0	26.9	10.8	7.4	3.4	26.9	26.9
Russian Federation	640	66.3	7.1	14.4	66.3	6.8	4.6	0.7	69.8	62.7
Scotland	555	41.3	16.8	20.6	41.3	9.6	8.4	3.3	40.0	42.5
Singapore	726	74.3	5.0	16.6	74.3	3.5	0.0	0.5	75.0	73.6
Slovak Republic	700	50.1	10.0	17.2	50.1	12.9	8.3	1.5	50.4	49.8
Slovenia	613	55.0	13.5	15.2	55.0	11.9	3.9	0.5	57.4	52.5
Sweden	665	53.0	13.6	17.6	53.0	6.1	9.0	0.7	52.6	53.5
Tunisia	584	21.9	9.5	23.3	21.9	15.3	21.9	8.1	20.5	23.1
Ukraine	607	47.1	13.3	18.8	47.1	11.9	8.3	0.7	47.3	46.9
United States	1135	47.0	17.3	21.1	47.0	10.7	2.0	1.9	44.7	49.2
Yemen	836	27.2	18.0	25.1	27.2	15.6	9.7	4.3	24.2	29.7
International Avg.	635	47.2	14.5	19.0	47.2	10.1	7.2	2.1	46.8	47.6
Alberta, Canada	582	45.4	18.0	19.7	45.4	12.8	2.6	1.4	49.2	41.5
British Columbia, Canada	582	48.6	15.6	20.1	48.6	10.1	4.4	1.2	49.6	47.8
Dubai, UAE	428	43.4	18.9	19.4	43.4	10.4	6.1	1.7	49.2	38.2
Massachusetts, US	253	53.9	17.1	16.7	53.9	8.4	1.8	2.2	57.2	50.6
Minnesota, US	262	59.3	7.1	20.7	59.3	9.1	2.2	1.7	52.7	66.6
Ontario, Canada	506	45.6	14.3	22.9	45.6	10.4	5.6	1.2	45.2	46.0
Quebec, Canada	531	46.6	16.9	16.9	46.6	13.4	5.1	1.1	42.9	50.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S041208 - S06\_11)  
 Label: How often Earth rotates on its axis  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	59.6	8.2	59.6	8.9	18.3	1.6	3.4	57.8	61.5
Armenia	574	59.6	5.6	59.6	3.0	21.7	8.2	1.9	62.5	56.6
Australia	586	42.8	12.8	42.8	10.3	29.4	2.4	2.2	43.1	42.5
Austria	698	55.7	6.8	55.7	5.5	30.4	1.3	0.3	55.4	56.0
Chinese Taipei	593	46.3	8.9	46.3	9.5	34.4	0.5	0.3	40.1	51.4
Colombia	693	47.7	11.2	47.7	7.0	23.5	4.0	6.6	42.8	53.1
Czech Republic	594	51.6	3.9	51.6	6.1	36.0	1.6	0.8	47.5	54.7
Denmark	511	38.8	8.1	38.8	13.1	31.3	4.5	4.3	35.9	41.7
El Salvador	591	42.1	11.8	42.1	9.2	29.1	2.8	5.1	40.5	43.6
England	615	58.7	6.5	58.7	8.6	24.2	1.2	0.9	61.4	55.9
Georgia	581	50.3	8.6	50.3	4.2	31.6	1.9	3.5	44.7	55.1
Germany	748	54.2	8.3	54.2	8.2	26.2	2.1	1.1	47.1	60.1
Hong Kong SAR	538	49.1	11.2	49.1	6.5	32.3	0.9	0.0	48.9	49.3
Hungary	580	61.1	6.9	61.1	2.3	27.7	1.0	0.9	57.7	64.2
Iran, Islamic Rep. of	544	50.1	12.0	50.1	6.5	26.4	4.0	0.9	52.1	48.6
Italy	635	60.4	12.0	60.4	3.1	20.7	1.8	1.9	59.9	61.0
Japan	644	63.3	6.0	63.3	5.6	23.3	0.5	1.2	57.9	68.5
Kazakhstan	571	70.3	5.2	70.3	2.6	21.9	0.0	0.0	71.5	69.1
Kuwait	542	29.5	9.8	29.5	22.4	27.1	4.5	6.5	29.4	29.7
Latvia	563	57.9	6.1	57.9	3.2	31.6	0.5	0.7	58.3	57.5
Lithuania	577	65.3	1.2	65.3	4.9	27.8	0.7	0.2	66.3	64.2
Morocco	539	33.5	9.8	33.5	21.5	22.9	5.4	6.9	37.1	29.4
Netherlands	471	48.0	8.1	48.0	11.5	31.7	0.5	0.2	49.0	46.9
New Zealand	687	46.0	15.0	46.0	10.2	26.1	2.1	0.8	43.6	48.4
Norway	584	42.6	7.4	42.6	9.3	35.3	1.9	3.5	38.7	45.9
Qatar	998	44.7	18.0	44.7	16.7	13.9	3.1	3.6	43.3	46.2
Russian Federation	640	59.2	7.3	59.2	5.3	26.3	0.8	1.0	59.2	59.1
Scotland	555	40.1	10.1	40.1	9.9	33.6	2.3	4.0	40.4	39.9
Singapore	726	43.1	19.1	43.1	7.0	30.0	0.2	0.6	40.7	45.4
Slovak Republic	700	67.7	1.1	67.7	4.1	24.6	1.0	1.5	66.6	68.6
Slovenia	613	65.9	4.2	65.9	4.5	24.3	0.6	0.5	62.4	69.6
Sweden	665	40.3	6.6	40.3	10.5	40.4	0.6	1.6	34.0	46.3
Tunisia	584	33.0	8.1	33.0	19.6	20.7	10.2	8.4	27.6	37.5
Ukraine	607	52.8	5.9	52.8	9.4	30.6	0.6	0.7	52.6	53.0
United States	1135	51.7	9.4	51.7	7.8	27.5	1.5	2.2	48.0	55.2
Yemen	836	38.5	11.8	38.5	18.1	19.6	7.4	4.6	35.5	40.9
International Avg.	636	50.6	8.7	50.6	8.8	27.3	2.3	2.3	48.9	52.1
Alberta, Canada	582	41.0	12.9	41.0	9.7	32.9	1.8	1.6	40.8	41.3
British Columbia, Canada	582	43.1	13.5	43.1	9.0	29.8	2.7	1.8	35.3	50.4
Dubai, UAE	428	50.5	9.3	50.5	10.5	25.4	2.4	1.8	50.7	50.3
Massachusetts, US	253	54.9	10.0	54.9	4.4	27.3	1.3	2.2	55.6	54.1
Minnesota, US	262	50.1	15.3	50.1	6.8	24.8	0.9	2.1	44.6	56.2
Ontario, Canada	506	47.5	13.9	47.5	9.0	24.1	4.0	1.5	42.3	52.4
Quebec, Canada	531	49.0	12.2	49.0	6.4	28.0	3.0	1.4	45.3	53.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041060 - S06\_12)  
 Label: Identifies gas  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	3.2	28.3	18.0	13.6	14.9	18.3	3.7	3.2	2.7	3.6
Armenia	582	18.8	44.3	8.8	11.8	3.0	11.2	2.1	18.8	20.8	16.8
Australia	586	27.9	19.8	22.8	17.5	1.6	8.3	2.2	27.9	27.8	28.0
Austria	698	19.6	18.8	22.7	23.3	1.7	13.6	0.3	19.6	16.9	22.2
Chinese Taipei	593	21.5	19.3	19.8	36.2	0.2	2.8	0.3	21.5	20.7	22.2
Colombia	693	9.0	40.2	15.9	12.3	3.0	12.5	7.2	9.0	8.7	9.3
Czech Republic	594	22.2	27.1	11.3	18.9	1.2	18.5	0.9	22.2	19.9	23.9
Denmark	513	15.4	16.9	16.5	26.5	4.8	15.8	4.2	15.4	12.8	17.9
El Salvador	593	10.3	31.4	17.9	14.0	3.9	16.6	5.9	10.3	7.8	12.6
England	615	28.4	18.0	21.6	21.3	1.8	8.0	0.9	28.4	33.2	23.5
Georgia	581	3.8	26.5	10.1	16.4	6.9	32.6	3.7	3.8	4.6	3.0
Germany	748	20.8	21.0	18.0	24.7	1.6	12.9	1.1	20.8	19.0	22.2
Hong Kong SAR	538	24.3	24.4	21.9	26.3	1.0	2.1	0.0	24.3	23.7	24.9
Hungary	580	20.7	22.3	20.6	23.2	4.5	7.8	0.9	20.7	23.9	17.8
Iran, Islamic Rep. of	544	13.3	29.7	19.8	19.2	4.0	12.3	1.6	13.3	17.6	9.9
Italy	634	34.8	21.6	11.7	13.8	2.6	13.5	2.0	34.8	33.6	35.9
Japan	644	18.1	20.7	20.5	35.0	0.8	3.7	1.3	18.1	15.0	21.0
Kazakhstan	571	31.1	35.5	7.2	18.2	3.4	4.6	0.0	31.1	36.7	25.7
Kuwait	542	0.4	38.1	23.0	12.9	5.6	13.1	6.9	0.4	0.7	0.0
Latvia	563	30.7	20.3	23.8	15.6	3.0	6.0	0.7	30.7	31.9	29.9
Lithuania	.	.	.	.	.	.	.	.	.	.	.
Morocco	554	2.6	29.6	19.5	13.0	9.5	17.2	8.4	2.6	4.2	1.0
Netherlands	471	15.5	20.2	27.7	29.3	2.6	4.5	0.2	15.5	11.7	19.6
New Zealand	687	19.1	22.7	21.1	20.6	4.5	11.2	0.8	19.1	19.1	19.2
Norway	584	10.2	30.1	24.7	14.6	6.0	10.6	3.8	10.2	14.0	7.0
Qatar	998	3.0	41.5	20.6	16.3	6.5	8.3	3.8	3.0	3.3	2.6
Russian Federation	640	46.8	18.5	10.8	11.9	2.1	8.6	1.3	46.8	48.0	45.4
Scotland	555	20.7	22.3	22.5	14.9	2.0	13.4	4.2	20.7	21.5	19.8
Singapore	726	35.8	12.6	15.5	33.2	1.2	1.0	0.6	35.8	35.9	35.8
Slovak Republic	700	21.1	21.7	15.3	22.7	2.9	14.5	1.9	21.1	18.3	23.7
Slovenia	613	24.0	19.8	20.0	26.8	3.1	5.8	0.5	24.0	24.6	23.3
Sweden	665	18.2	26.0	21.9	15.7	2.6	13.7	1.9	18.2	17.6	18.9
Tunisia	584	5.3	19.9	17.6	10.4	21.7	16.4	8.7	5.3	5.3	5.3
Ukraine	607	21.4	31.3	18.7	13.2	3.0	11.8	0.7	21.4	24.3	18.3
United States	1135	26.6	20.3	20.3	25.5	1.9	3.3	2.2	26.6	23.7	29.3
Yemen	831	0.6	19.9	19.6	10.3	28.2	16.1	5.4	0.6	0.8	0.4
International Avg.	639	18.4	25.2	18.5	19.4	4.8	11.2	2.6	18.4	18.6	18.3
Alberta, Canada	582	22.0	21.3	20.6	24.0	2.7	7.8	1.6	22.0	18.1	26.0
British Columbia, Canada	582	30.1	14.3	17.4	23.0	3.3	10.0	2.0	30.1	29.9	30.3
Dubai, UAE	428	10.3	27.0	21.5	20.3	7.4	11.6	1.9	10.3	10.9	9.9
Massachusetts, US	253	29.5	11.5	20.8	25.5	2.4	7.8	2.5	29.5	28.8	30.2
Minnesota, US	262	30.7	18.5	22.1	21.2	3.9	1.4	2.1	30.7	34.8	26.1
Ontario, Canada	506	26.6	19.9	20.7	21.1	2.2	8.0	1.5	26.6	26.1	27.0
Quebec, Canada	531	21.1	15.4	19.6	21.9	5.5	15.1	1.4	21.1	19.5	22.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041201A - S06\_13A)  
 Label: Advantage to farming by a river  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	23.5	39.4	27.4	9.7	23.5	24.4	22.5
Armenia	581	35.7	17.8	42.4	4.0	35.7	42.4	28.8
Australia	586	55.6	25.3	13.4	5.7	55.6	50.5	60.3
Austria	698	55.8	20.8	19.3	4.1	55.8	54.2	57.3
Chinese Taipei	593	57.2	34.2	8.1	0.5	57.2	56.1	58.1
Colombia	693	16.3	49.4	21.2	13.0	16.3	16.5	16.1
Czech Republic	594	54.7	27.0	13.3	5.0	54.7	49.2	59.0
Denmark	513	56.9	23.4	12.0	7.7	56.9	55.1	58.6
El Salvador	593	22.4	49.6	16.5	11.6	22.4	18.1	26.2
England	615	49.1	38.1	9.1	3.7	49.1	48.9	49.2
Georgia	581	24.9	36.1	27.2	11.8	24.9	23.4	26.2
Germany	748	49.6	27.8	18.3	4.3	49.6	44.9	53.5
Hong Kong SAR	538	73.0	20.1	6.7	0.2	73.0	79.0	67.8
Hungary	580	39.2	42.4	14.5	4.0	39.2	34.9	43.1
Iran, Islamic Rep. of	544	46.1	31.7	16.0	6.2	46.1	54.6	39.3
Italy	635	68.6	18.2	9.2	4.0	68.6	65.9	71.1
Japan	644	30.5	53.9	12.8	2.8	30.5	31.8	29.2
Kazakhstan	571	64.7	26.2	7.8	1.2	64.7	66.3	63.2
Kuwait	542	10.0	35.2	42.8	12.0	10.0	12.2	7.5
Latvia	563	47.2	44.3	6.3	2.2	47.2	46.2	47.9
Lithuania	577	45.3	40.3	14.2	0.2	45.3	43.4	47.2
Morocco	554	9.9	21.7	54.5	14.0	9.9	12.0	7.8
Netherlands	471	59.2	34.7	4.8	1.3	59.2	52.2	66.8
New Zealand	687	44.1	35.3	14.8	5.7	44.1	40.9	47.4
Norway	584	40.8	30.5	20.8	7.9	40.8	39.0	42.3
Qatar	998	5.5	48.9	37.5	8.2	5.5	5.6	5.3
Russian Federation	640	42.0	38.0	15.3	4.7	42.0	43.9	39.9
Scotland	555	37.7	32.6	20.8	8.9	37.7	33.7	41.8
Singapore	726	62.1	33.6	3.5	0.7	62.1	63.7	60.6
Slovak Republic	701	63.2	21.7	9.0	6.1	63.2	58.8	67.3
Slovenia	613	46.0	40.8	11.0	2.2	46.0	44.3	47.8
Sweden	665	45.7	26.8	20.7	6.8	45.7	47.3	44.2
Tunisia	584	12.2	44.6	29.8	13.4	12.2	15.8	9.3
Ukraine	607	11.2	44.0	39.1	5.7	11.2	11.0	11.4
United States	1135	44.9	45.3	6.6	3.2	44.9	43.0	46.8
Yemen	836	2.1	46.0	40.8	11.1	2.1	1.5	2.7
International Avg.	638	40.4	34.6	19.1	5.9	40.4	39.7	40.9
Alberta, Canada	582	58.1	29.3	8.5	4.1	58.1	51.9	64.3
British Columbia, Canada	582	52.8	28.1	14.6	4.4	52.8	49.5	55.9
Dubai, UAE	428	32.9	33.0	28.5	5.6	32.9	36.4	29.6
Massachusetts, US	253	57.4	27.9	10.5	4.2	57.4	52.4	62.6
Minnesota, US	262	53.8	41.1	3.0	2.1	53.8	56.0	51.4
Ontario, Canada	506	50.1	31.7	14.6	3.7	50.1	52.4	47.9
Quebec, Canada	531	48.4	33.5	13.7	4.4	48.4	45.3	51.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041201B - S06\_13B)  
 Label: Disadvantage to farming by a river  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	12.0	41.2	25.9	20.8	12.0	12.7	11.3
Armenia	582	32.8	20.0	23.7	23.4	32.8	37.8	27.6
Australia	586	42.9	36.3	10.5	10.3	42.9	42.5	43.2
Austria	698	52.5	21.7	13.5	12.2	52.5	49.7	55.0
Chinese Taipei	593	55.9	32.6	6.6	4.9	55.9	59.9	52.5
Colombia	693	21.4	40.5	16.1	21.9	21.4	19.5	23.5
Czech Republic	594	63.6	17.2	11.1	8.0	63.6	59.4	66.9
Denmark	513	45.7	29.3	12.1	12.9	45.7	43.6	47.8
El Salvador	593	24.7	42.0	16.5	16.7	24.7	22.0	27.2
England	615	48.7	35.4	8.6	7.3	48.7	46.9	50.4
Georgia	581	33.8	24.7	24.6	17.0	33.8	35.3	32.4
Germany	748	46.1	29.7	13.8	10.4	46.1	41.9	49.8
Hong Kong SAR	538	63.4	28.7	4.6	3.2	63.4	63.3	63.6
Hungary	580	41.7	38.7	11.3	8.3	41.7	39.9	43.3
Iran, Islamic Rep. of	544	19.5	38.1	31.9	10.5	19.5	27.2	13.5
Italy	635	59.8	22.9	10.1	7.3	59.8	56.5	62.8
Japan	644	23.6	58.4	11.2	6.8	23.6	24.8	22.4
Kazakhstan	571	46.7	39.4	8.3	5.6	46.7	47.6	45.8
Kuwait	542	5.7	32.9	29.2	32.2	5.7	4.9	6.6
Latvia	563	41.3	50.0	4.1	4.7	41.3	45.8	38.2
Lithuania	577	30.6	52.0	10.5	6.9	30.6	29.0	32.2
Morocco	554	5.6	15.8	43.1	35.5	5.6	6.7	4.6
Netherlands	471	60.6	32.0	4.3	3.1	60.6	55.3	66.3
New Zealand	687	40.9	35.5	12.0	11.6	40.9	38.7	43.1
Norway	584	25.6	36.6	21.8	16.0	25.6	26.7	24.7
Qatar	998	1.5	45.8	29.8	22.9	1.5	1.1	1.9
Russian Federation	640	42.8	34.5	12.8	9.9	42.8	46.2	39.2
Scotland	555	39.4	29.8	15.1	15.6	39.4	35.7	43.2
Singapore	726	53.9	41.1	3.2	1.8	53.9	54.8	53.0
Slovak Republic	701	53.4	26.1	11.3	9.2	53.4	49.6	57.1
Slovenia	613	49.4	37.7	7.4	5.5	49.4	48.9	49.9
Sweden	665	31.5	36.7	16.4	15.5	31.5	27.0	35.7
Tunisia	584	5.0	40.7	31.7	22.6	5.0	4.3	5.6
Ukraine	607	14.9	42.0	27.2	15.9	14.9	14.2	15.7
United States	1135	35.5	53.3	5.0	6.2	35.5	33.0	37.9
Yemen	836	0.6	35.0	40.1	24.3	0.6	0.4	0.8
International Avg.	638	35.4	35.4	16.3	13.0	35.4	34.8	36.0
Alberta, Canada	582	47.2	38.7	7.0	7.2	47.2	44.4	50.0
British Columbia, Canada	582	46.9	32.0	12.3	8.8	46.9	51.9	42.1
Dubai, UAE	428	24.2	36.1	20.8	18.8	24.2	29.5	19.4
Massachusetts, US	253	40.3	44.2	7.5	7.9	40.3	37.6	43.1
Minnesota, US	262	50.4	43.6	3.0	3.0	50.4	52.4	48.2
Ontario, Canada	506	45.7	35.9	10.0	8.4	45.7	48.2	43.4
Quebec, Canada	531	41.3	38.1	12.5	8.2	41.3	39.3	43.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031317 - S07\_01)  
 Label: Organism making food with sunlight  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	576	64.3	8.4	64.3	8.5	10.8	4.9	3.2	63.5	65.1
Armenia	592	57.0	19.6	57.0	3.7	8.6	10.9	0.2	62.5	51.4
Australia	577	73.5	14.0	73.5	2.5	7.7	1.6	0.8	71.0	75.5
Austria	698	70.3	18.4	70.3	2.8	6.0	2.3	0.1	66.5	74.0
Chinese Taipei	586	86.5	4.7	86.5	3.8	4.4	0.4	0.2	83.8	88.9
Colombia	696	72.7	5.3	72.7	5.2	6.7	3.7	6.4	74.3	70.8
Czech Republic	609	50.0	38.6	50.0	1.8	4.4	5.0	0.3	53.5	47.4
Denmark	511	58.7	23.7	58.7	5.5	6.7	4.0	1.4	58.4	59.0
El Salvador	600	61.1	10.4	61.1	8.7	10.1	5.0	4.7	61.4	60.8
England	618	80.0	9.9	80.0	3.3	5.6	1.0	0.1	80.2	79.9
Georgia	576	63.5	12.5	63.5	9.1	7.5	4.2	3.2	68.3	60.0
Germany	744	66.6	21.4	66.6	3.1	4.0	3.3	1.5	66.9	66.4
Hong Kong SAR	531	91.0	1.9	91.0	3.7	2.5	0.8	0.0	88.9	92.6
Hungary	572	70.4	17.9	70.4	3.7	5.3	1.9	0.8	75.0	66.4
Iran, Islamic Rep. of	548	79.0	7.7	79.0	2.6	5.6	3.3	1.8	77.5	80.2
Italy	628	81.8	11.1	81.8	1.4	2.4	2.8	0.5	80.2	83.3
Japan	646	72.1	12.0	72.1	8.1	6.7	0.6	0.6	71.2	73.0
Kazakhstan	567	82.5	9.0	82.5	3.7	4.7	0.1	0.0	80.8	84.2
Kuwait	533	68.1	9.6	68.1	5.5	9.6	6.9	0.4	70.4	65.5
Latvia	570	78.3	13.9	78.3	2.3	4.4	0.8	0.2	83.6	73.7
Lithuania	576	79.3	14.5	79.3	1.9	2.1	1.9	0.3	84.2	74.7
Morocco	541	43.5	17.7	43.5	16.8	11.1	7.6	3.3	39.9	48.1
Netherlands	473	65.6	14.8	65.6	6.7	12.4	0.2	0.2	65.8	65.3
New Zealand	696	69.3	13.2	69.3	5.5	8.6	1.6	1.8	66.7	71.7
Norway	579	52.0	22.0	52.0	10.7	8.7	3.5	3.2	50.6	53.5
Qatar	997	56.1	13.7	56.1	11.5	11.2	5.6	1.9	57.6	54.5
Russian Federation	645	80.6	11.4	80.6	1.2	3.5	2.8	0.4	82.3	78.9
Scotland	558	69.0	16.1	69.0	4.7	7.1	1.6	1.6	68.1	69.8
Singapore	724	96.2	1.3	96.2	0.5	1.5	0.4	0.0	97.0	95.4
Slovak Republic	716	62.7	23.0	62.7	5.5	6.6	1.9	0.4	60.1	65.3
Slovenia	613	70.5	15.3	70.5	4.8	5.5	3.7	0.2	74.5	66.6
Sweden	659	56.6	24.1	56.6	7.2	9.4	1.2	1.6	56.3	56.8
Tunisia	588	41.7	14.9	41.7	12.1	15.7	10.0	5.5	41.4	42.1
Ukraine	615	70.3	13.9	70.3	4.5	7.4	2.9	1.1	73.9	66.9
United States	1133	85.5	7.7	85.5	2.3	3.3	0.8	0.4	86.0	84.9
Yemen	825	40.2	15.7	40.2	19.4	11.5	9.6	3.6	44.5	36.8
International Avg.	637	68.5	14.1	68.5	5.7	6.9	3.3	1.4	69.1	68.0
Alberta, Canada	584	87.6	5.7	87.6	2.3	1.8	1.8	0.9	84.6	90.4
British Columbia, Canada	598	81.8	9.3	81.8	2.1	4.4	1.4	1.0	78.7	84.6
Dubai, UAE	423	80.9	5.0	80.9	2.6	6.7	4.1	0.7	85.6	76.3
Massachusetts, US	250	87.4	6.5	87.4	1.8	3.2	1.2	0.0	88.2	86.6
Minnesota, US	268	80.9	10.8	80.9	2.4	5.5	0.0	0.4	80.4	81.5
Ontario, Canada	500	85.0	7.6	85.0	3.1	2.6	0.1	1.5	84.4	85.6
Quebec, Canada	526	70.3	16.4	70.3	4.5	6.2	2.5	0.2	69.1	71.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031190 - S07\_02)  
 Label: Can the only turtle reproduce  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	6.6	5.1	0.4	6.3	27.8	29.8	14.2	6.0	3.7	12.1	13.8	10.4
Armenia	589	19.7	3.0	1.9	1.1	32.9	28.9	3.7	8.6	0.2	24.6	25.1	24.1
Australia	577	42.1	6.2	0.0	3.1	13.9	24.6	5.2	4.0	0.9	48.3	48.3	48.3
Austria	.	.	.	.	.	.	.	.	.	.	.	.	.
Chinese Taipei	586	41.8	0.8	0.2	1.5	22.7	31.4	0.9	0.6	0.2	42.8	38.5	46.6
Colombia	696	11.1	0.7	0.0	0.5	30.7	41.4	1.0	8.0	6.5	11.8	9.4	14.9
Czech Republic	609	36.3	11.1	0.0	4.7	16.7	25.2	0.9	4.8	0.3	47.4	47.9	47.1
Denmark	512	33.4	7.5	1.3	4.3	21.6	18.8	7.0	4.3	1.9	42.1	42.9	41.3
El Salvador	601	11.6	0.0	0.0	0.2	22.1	51.2	2.0	7.9	5.0	11.6	11.1	12.1
England	618	44.7	2.6	0.0	4.6	15.0	29.0	0.6	3.3	0.2	47.3	49.9	44.9
Georgia	576	8.2	0.3	0.1	0.8	32.1	0.0	43.2	11.6	3.7	8.7	10.1	7.7
Germany	744	44.3	4.9	0.1	2.6	17.9	21.3	0.4	7.0	1.5	49.4	46.2	52.0
Hong Kong SAR	531	34.4	1.0	0.2	3.3	26.6	32.4	0.3	1.8	0.0	35.6	35.2	36.0
Hungary	572	44.3	1.2	0.0	0.8	16.1	33.0	1.8	2.1	0.8	45.4	50.9	40.7
Iran, Islamic Rep. of	548	1.3	3.1	0.0	12.3	27.8	48.8	0.6	3.2	2.8	4.4	5.5	3.5
Italy	629	34.2	3.1	0.3	1.9	20.5	30.2	1.1	8.0	0.6	37.7	37.5	37.8
Japan	646	16.5	28.9	0.0	7.5	14.8	30.3	0.7	0.8	0.6	45.3	44.6	46.0
Kazakhstan	567	16.2	8.3	0.0	31.6	27.7	15.2	0.3	0.6	0.0	24.5	19.5	29.5
Kuwait	533	3.0	5.7	0.2	11.0	26.8	41.9	2.1	8.8	0.4	9.0	12.6	5.1
Latvia	570	37.4	1.2	16.4	2.5	14.2	21.9	5.2	0.9	0.3	55.0	63.1	48.0
Lithuania	576	53.1	4.5	0.5	1.6	19.0	17.5	1.0	2.2	0.7	58.1	63.2	53.3
Morocco	557	2.6	2.6	2.9	1.9	35.3	42.8	2.9	5.7	3.2	8.2	10.4	5.1
Netherlands	473	40.2	2.5	0.1	2.4	20.1	32.5	0.5	1.5	0.2	42.8	42.5	43.0
New Zealand	696	31.1	3.9	0.3	3.8	21.1	33.0	1.5	3.2	2.1	35.3	36.4	34.2
Norway	579	16.9	1.1	0.0	2.4	27.9	40.0	2.1	5.8	3.7	18.0	20.8	14.9
Qatar	997	1.2	1.2	0.1	5.1	27.7	54.6	1.8	6.2	2.1	2.5	2.1	2.9
Russian Federation	645	19.4	21.5	0.0	6.0	29.3	21.0	0.6	2.0	0.4	40.9	41.5	40.3
Scotland	558	29.9	5.6	0.0	6.6	20.1	27.5	0.6	8.0	1.6	35.5	35.5	35.6
Singapore	724	31.5	6.7	0.0	8.9	16.8	33.3	2.2	0.6	0.0	38.1	39.2	37.0
Slovak Republic	716	34.7	10.1	0.0	4.5	19.5	25.7	2.0	3.1	0.4	44.7	42.1	47.5
Slovenia	613	26.9	4.9	0.2	5.2	20.2	38.9	1.2	2.2	0.3	31.9	33.6	30.3
Sweden	660	30.9	3.5	0.0	2.1	19.6	36.2	1.9	4.3	1.6	34.5	38.2	30.5
Tunisia	588	4.4	0.1	0.0	1.1	29.4	46.9	7.2	5.1	5.7	4.5	4.8	4.3
Ukraine	615	11.5	11.2	0.1	4.8	26.7	33.8	6.0	4.7	1.1	22.9	20.8	24.9
United States	1133	35.5	6.7	0.0	4.3	17.4	32.7	0.7	2.2	0.4	42.2	42.7	41.8
Yemen	824	0.7	0.3	0.4	2.2	18.9	45.5	14.2	13.8	4.0	1.4	1.5	1.3
International Avg.	636	24.5	5.2	0.7	4.7	22.8	31.9	3.9	4.7	1.6	30.4	31.1	29.8
Alberta, Canada	584	29.6	3.7	0.0	9.2	18.6	32.8	1.9	3.2	1.1	33.4	35.9	30.9
British Columbia, Canada	598	29.2	3.7	0.0	6.5	25.0	27.3	1.9	5.6	1.0	32.8	39.5	26.7
Dubai, UAE	423	9.3	2.0	0.7	5.8	28.8	41.4	2.3	9.0	0.7	12.0	17.6	6.4
Massachusetts, US	250	37.3	11.4	0.0	9.7	13.3	24.2	1.3	2.7	0.0	48.7	47.7	49.7
Minnesota, US	268	37.3	4.4	0.0	6.0	16.0	34.5	0.1	1.3	0.4	41.7	43.4	39.8
Ontario, Canada	500	28.8	6.3	0.2	3.6	22.1	32.5	1.4	3.5	1.6	35.2	33.8	36.6
Quebec, Canada	526	26.2	2.8	0.1	1.7	17.3	45.7	0.9	5.2	0.2	29.0	29.9	28.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031431 - S07\_03)  
 Label: Study of seaweed in salty water  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	548	19.6	26.7	21.2	19.6	16.4	11.4	4.6	23.2	16.1
Armenia	584	27.0	17.9	13.6	27.0	16.2	25.1	0.3	26.1	27.8
Australia	577	33.1	27.1	16.6	33.1	17.8	4.3	1.1	32.0	33.9
Austria	698	24.0	33.0	15.8	24.0	20.9	6.1	0.1	25.8	22.3
Chinese Taipei	586	36.4	24.0	12.5	36.4	23.6	3.2	0.2	37.9	35.1
Colombia	696	17.5	29.0	11.9	17.5	20.9	13.0	7.8	17.2	17.8
Czech Republic	609	24.0	30.5	15.9	24.0	17.3	11.7	0.6	24.4	23.8
Denmark	509	29.8	27.1	12.4	29.8	18.3	10.5	1.9	30.2	29.5
El Salvador	597	20.2	26.8	14.7	20.2	23.2	8.5	6.6	20.5	20.0
England	618	41.5	20.6	11.3	41.5	22.9	3.2	0.5	41.9	41.2
Georgia	576	18.4	26.4	15.6	18.4	16.0	19.5	4.1	16.0	20.2
Germany	744	30.8	31.6	10.6	30.8	16.7	8.3	2.0	31.3	30.5
Hong Kong SAR	531	38.8	19.5	10.4	38.8	28.2	3.2	0.0	35.6	41.1
Hungary	572	24.5	26.3	15.4	24.5	26.3	6.7	0.8	23.7	25.2
Iran, Islamic Rep. of	548	20.3	28.5	15.4	20.3	18.2	14.2	3.4	20.3	20.4
Italy	624	31.7	24.5	13.1	31.7	22.0	7.8	0.9	27.3	35.8
Japan	646	26.1	33.3	10.0	26.1	27.1	3.0	0.6	27.5	24.8
Kazakhstan	567	28.0	28.7	18.6	28.0	24.1	0.6	0.0	28.2	27.9
Kuwait	533	15.3	34.2	16.5	15.3	14.0	18.6	1.3	13.4	17.4
Latvia	570	39.9	29.8	10.3	39.9	18.4	1.3	0.3	40.0	39.9
Lithuania	576	36.5	31.0	8.2	36.5	18.3	5.2	0.9	37.4	35.6
Morocco	506	24.1	22.5	13.4	24.1	15.1	21.0	3.8	21.0	27.2
Netherlands	473	38.6	30.5	12.5	38.6	16.8	1.1	0.4	37.3	40.1
New Zealand	696	25.5	29.6	15.6	25.5	22.6	4.4	2.2	27.8	23.4
Norway	579	21.5	26.2	15.9	21.5	22.8	9.5	4.1	23.0	19.9
Qatar	997	17.6	33.9	14.7	17.6	13.0	18.5	2.2	19.3	15.9
Russian Federation	645	33.7	24.6	17.1	33.7	17.6	6.4	0.5	34.9	32.5
Scotland	558	27.0	27.7	16.6	27.0	20.0	5.6	3.1	23.5	30.4
Singapore	724	41.7	14.9	8.0	41.7	34.6	0.9	0.0	43.9	39.3
Slovak Republic	716	27.5	25.5	17.0	27.5	20.7	8.7	0.6	27.0	28.0
Slovenia	613	22.0	33.6	18.3	22.0	17.7	7.8	0.7	23.4	20.5
Sweden	659	28.5	29.7	14.9	28.5	17.5	7.6	1.6	29.3	27.8
Tunisia	588	17.7	19.8	13.6	17.7	13.7	29.5	5.7	15.1	20.1
Ukraine	615	26.4	30.6	16.0	26.4	18.9	6.6	1.4	29.8	23.2
United States	1133	35.2	22.7	15.0	35.2	25.4	1.1	0.6	32.7	37.7
Yemen	823	17.1	24.0	10.7	17.1	11.7	32.4	4.2	15.4	18.5
International Avg.	634	27.4	27.0	14.1	27.4	19.9	9.6	1.9	27.3	27.5
Alberta, Canada	584	31.9	26.7	13.2	31.9	24.1	3.0	1.1	30.5	33.3
British Columbia, Canada	598	31.7	26.7	13.0	31.7	23.1	4.6	1.0	29.3	33.9
Dubai, UAE	423	22.3	24.9	15.4	22.3	26.5	9.8	1.0	22.7	21.9
Massachusetts, US	250	39.7	21.4	9.7	39.7	26.3	2.2	0.7	39.7	39.6
Minnesota, US	268	37.1	20.3	18.8	37.1	23.0	0.4	0.4	38.1	36.0
Ontario, Canada	500	30.7	23.2	15.5	30.7	26.1	2.7	1.9	28.5	32.8
Quebec, Canada	526	32.1	23.3	14.9	32.1	24.3	5.0	0.3	36.3	27.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031283 - S07\_04)  
 Label: Animal likely to live in the desert  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	524	49.0	4.4	33.1	49.0	5.8	1.9	5.8	51.8	46.1
Armenia	576	75.8	7.8	5.8	75.8	5.8	3.3	1.5	73.1	78.5
Australia	577	87.7	3.2	1.6	87.7	3.6	2.2	1.7	84.9	90.0
Austria	698	77.7	0.8	8.5	77.7	10.1	2.7	0.1	71.7	83.5
Chinese Taipei	586	68.7	0.9	20.9	68.7	8.9	0.2	0.4	59.8	76.5
Colombia	696	38.2	10.0	17.7	38.2	20.5	3.3	10.3	32.3	45.5
Czech Republic	609	52.9	0.7	30.0	52.9	13.1	2.1	1.3	49.9	55.0
Denmark	510	83.6	1.0	5.0	83.6	5.4	1.4	3.5	83.2	84.0
El Salvador	600	53.4	11.4	4.7	53.4	19.8	2.7	7.9	46.0	60.5
England	618	83.7	3.8	5.1	83.7	5.7	1.1	0.7	82.2	85.0
Georgia	576	61.7	6.2	17.7	61.7	7.5	2.5	4.4	55.4	66.2
Germany	744	78.5	0.9	6.0	78.5	9.4	2.2	3.0	74.8	81.5
Hong Kong SAR	531	73.7	1.6	17.5	73.7	6.9	0.3	0.0	71.2	75.6
Hungary	572	68.9	0.5	19.8	68.9	5.4	3.7	1.8	66.2	71.3
Iran, Islamic Rep. of	548	66.9	7.0	4.9	66.9	11.3	4.4	5.5	69.6	64.5
Italy	625	61.5	1.0	19.0	61.5	16.3	0.9	1.3	58.1	64.5
Japan	646	65.9	1.2	12.3	65.9	18.2	1.3	1.1	61.7	69.5
Kazakhstan	567	86.4	2.2	8.1	86.4	3.3	0.0	0.0	83.5	89.2
Kuwait	533	80.1	4.1	2.5	80.1	7.4	4.4	1.6	83.7	76.2
Latvia	570	68.1	1.7	12.3	68.1	15.9	1.5	0.5	70.5	65.9
Lithuania	576	70.1	2.0	10.2	70.1	13.7	2.8	1.3	66.7	73.3
Morocco	503	43.0	8.2	21.4	43.0	14.4	7.2	5.9	43.2	42.9
Netherlands	473	83.1	1.1	7.2	83.1	5.9	2.2	0.5	82.7	83.5
New Zealand	696	80.9	3.7	4.1	80.9	7.3	1.0	3.0	78.9	82.7
Norway	579	77.4	2.0	2.6	77.4	11.3	1.4	5.3	71.8	83.6
Qatar	997	63.8	8.0	6.5	63.8	14.0	4.7	3.0	65.1	62.4
Russian Federation	645	89.3	0.3	3.3	89.3	5.5	0.8	0.8	86.9	91.7
Scotland	558	77.1	4.0	7.1	77.1	6.7	1.5	3.7	74.1	80.0
Singapore	724	71.2	5.0	13.1	71.2	10.5	0.0	0.2	68.7	73.9
Slovak Republic	716	46.3	0.7	32.2	46.3	19.1	0.9	0.7	39.8	53.1
Slovenia	613	61.5	1.6	4.2	61.5	29.0	2.4	1.3	62.1	60.9
Sweden	660	79.7	0.5	5.2	79.7	10.8	1.6	2.1	78.4	81.1
Tunisia	588	42.2	7.1	16.7	42.2	6.6	19.8	7.6	41.0	43.3
Ukraine	615	71.2	5.0	8.1	71.2	11.7	1.9	2.0	68.7	73.6
United States	1133	92.2	1.3	1.9	92.2	2.8	0.6	1.2	91.3	93.1
Yemen	822	28.0	15.6	12.5	28.0	22.9	14.9	5.9	25.5	30.0
International Avg.	633	68.3	3.8	11.4	68.3	10.9	2.9	2.7	66.0	70.5
Alberta, Canada	584	83.9	3.2	6.1	83.9	2.6	2.9	1.3	82.7	85.0
British Columbia, Canada	598	82.4	3.6	4.2	82.4	5.9	2.5	1.3	83.0	81.8
Dubai, UAE	423	73.9	4.0	10.5	73.9	7.2	3.1	1.3	80.8	67.2
Massachusetts, US	250	88.2	1.8	2.8	88.2	4.0	1.1	2.2	85.1	91.1
Minnesota, US	268	88.7	3.0	4.3	88.7	2.6	1.1	0.4	91.2	85.9
Ontario, Canada	500	82.0	3.5	6.6	82.0	4.0	1.7	2.4	82.7	81.3
Quebec, Canada	526	83.6	2.9	9.3	83.6	1.9	1.7	0.6	80.9	86.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Reasoning (S031426 - S07\_05)  
 Label: How seeds are scattered  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	23.1	45.1	8.7	13.1	23.1	4.3	5.7	25.0	21.3
Armenia	588	64.9	15.9	5.6	4.1	64.9	7.9	1.5	65.1	64.6
Australia	577	58.8	19.8	7.7	9.0	58.8	2.3	2.3	58.3	59.2
Austria	698	80.2	9.9	5.2	2.6	80.2	1.9	0.1	74.8	85.4
Chinese Taipei	586	74.2	9.9	10.1	3.4	74.2	1.9	0.4	74.8	73.7
Colombia	696	38.6	21.4	9.4	14.3	38.6	5.6	10.7	42.6	33.5
Czech Republic	609	67.5	23.6	1.2	3.3	67.5	3.1	1.3	66.9	67.9
Denmark	512	70.2	19.9	2.8	1.5	70.2	1.5	4.0	72.9	67.6
El Salvador	601	20.8	56.0	4.7	7.6	20.8	2.9	8.1	22.9	18.8
England	618	75.8	9.1	6.3	5.6	75.8	2.5	0.7	77.4	74.3
Georgia	576	66.9	10.0	3.7	9.1	66.9	4.6	5.6	69.9	64.8
Germany	744	79.2	9.0	2.8	3.8	79.2	2.1	3.1	79.6	78.9
Hong Kong SAR	531	73.4	10.7	12.7	2.4	73.4	0.8	0.0	70.8	75.3
Hungary	572	81.6	9.9	1.4	2.0	81.6	3.3	1.8	83.0	80.3
Iran, Islamic Rep. of	548	55.7	11.7	9.8	12.9	55.7	3.7	6.3	55.8	55.5
Italy	613	62.2	24.5	5.1	4.7	62.2	1.8	1.7	61.6	62.8
Japan	646	89.2	3.7	2.7	0.7	89.2	2.5	1.1	90.1	88.4
Kazakhstan	567	68.4	24.3	4.7	2.4	68.4	0.1	0.0	66.5	70.3
Kuwait	533	25.5	39.6	11.7	14.5	25.5	6.9	1.8	25.8	25.2
Latvia	570	71.6	19.5	3.9	2.8	71.6	1.6	0.6	73.6	69.8
Lithuania	575	70.3	19.1	4.6	2.0	70.3	2.8	1.3	76.6	64.4
Morocco	529	26.7	31.7	11.3	18.0	26.7	5.8	6.6	27.5	25.6
Netherlands	473	75.1	18.3	3.5	0.5	75.1	2.1	0.5	70.5	80.2
New Zealand	696	64.8	16.8	7.3	6.7	64.8	1.4	3.1	63.4	66.0
Norway	579	64.2	20.0	3.6	3.8	64.2	2.7	5.6	60.8	67.9
Qatar	997	20.1	39.2	18.1	15.2	20.1	4.3	3.1	22.4	17.7
Russian Federation	645	74.1	10.5	8.2	4.1	74.1	2.2	0.9	78.9	69.1
Scotland	558	67.3	13.3	5.2	8.8	67.3	1.7	3.7	69.5	65.1
Singapore	724	69.9	11.9	8.6	9.2	69.9	0.2	0.2	73.0	66.5
Slovak Republic	716	73.8	16.2	3.5	4.2	73.8	1.6	0.7	74.6	73.0
Slovenia	613	74.4	17.8	2.5	1.5	74.4	2.6	1.3	76.4	72.4
Sweden	659	71.8	16.9	6.2	2.3	71.8	0.3	2.4	72.6	70.9
Tunisia	588	28.3	17.7	11.7	19.9	28.3	14.5	7.9	32.3	24.6
Ukraine	615	72.1	17.4	4.2	1.9	72.1	2.4	2.0	71.9	72.2
United States	1133	73.3	9.7	8.4	6.7	73.3	0.6	1.3	72.0	74.5
Yemen	823	23.5	27.0	12.5	19.7	23.5	11.2	6.1	25.7	21.8
International Avg.	636	61.0	19.4	6.7	6.8	61.0	3.3	2.9	61.8	60.3
Alberta, Canada	584	74.0	11.9	5.2	4.3	74.0	3.3	1.3	72.5	75.4
British Columbia, Canada	598	76.9	10.5	4.2	4.6	76.9	2.2	1.6	76.4	77.4
Dubai, UAE	423	53.2	18.9	12.9	11.4	53.2	2.3	1.3	57.8	48.6
Massachusetts, US	250	78.2	10.4	3.8	4.3	78.2	0.0	3.3	75.0	81.2
Minnesota, US	268	78.2	11.8	5.2	2.7	78.2	1.8	0.4	80.3	75.8
Ontario, Canada	500	71.1	12.4	6.6	4.3	71.1	3.0	2.5	69.3	72.8
Quebec, Canada	526	70.8	13.2	4.0	8.1	70.8	3.2	0.6	69.2	72.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031422 - S07\_06)  
 Label: Which object will rust  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	577	49.4	13.4	13.4	49.4	14.1	3.0	6.6	47.6	51.2
Armenia	592	85.2	2.6	3.1	85.2	2.9	4.3	2.0	87.2	83.1
Australia	577	84.6	6.3	1.9	84.6	3.8	1.0	2.3	82.5	86.3
Austria	698	92.7	2.6	1.6	92.7	1.1	1.8	0.3	90.9	94.4
Chinese Taipei	586	93.9	2.5	1.6	93.9	0.6	1.1	0.4	93.7	94.0
Colombia	696	66.2	5.1	5.7	66.2	7.6	4.3	11.2	62.8	70.4
Czech Republic	609	95.3	0.8	0.6	95.3	0.8	0.8	1.7	95.7	95.0
Denmark	512	79.7	5.2	2.5	79.7	7.4	1.2	4.0	78.9	80.4
El Salvador	601	46.4	13.5	12.1	46.4	16.3	3.1	8.7	40.5	51.9
England	618	84.2	8.2	1.6	84.2	3.9	1.3	0.8	83.0	85.2
Georgia	576	89.2	1.5	1.9	89.2	0.6	1.0	5.7	93.3	86.3
Germany	744	88.5	2.7	2.0	88.5	1.6	1.9	3.4	87.0	89.7
Hong Kong SAR	531	94.2	2.4	1.7	94.2	1.7	0.1	0.0	93.6	94.6
Hungary	572	92.0	0.9	1.2	92.0	1.9	1.5	2.5	91.2	92.7
Iran, Islamic Rep. of	548	55.2	10.8	14.3	55.2	9.1	3.3	7.4	56.3	54.2
Italy	627	89.5	2.9	2.3	89.5	2.2	1.1	2.0	87.5	91.4
Japan	646	93.9	2.7	0.6	93.9	0.6	0.9	1.3	93.7	94.2
Kazakhstan	567	89.9	6.2	2.0	89.9	1.8	0.1	0.0	91.2	88.6
Kuwait	533	43.3	11.9	16.9	43.3	18.8	7.4	1.8	44.4	42.2
Latvia	570	94.7	1.0	1.7	94.7	1.8	0.1	0.8	93.9	95.4
Lithuania	576	94.4	2.2	1.0	94.4	0.4	0.4	1.6	96.2	92.7
Morocco	528	56.8	9.9	10.8	56.8	8.2	6.8	7.5	60.9	52.1
Netherlands	473	94.1	2.2	0.9	94.1	0.8	1.0	1.0	91.9	96.5
New Zealand	696	78.9	8.4	3.8	78.9	4.4	1.2	3.3	75.1	82.3
Norway	579	82.0	5.5	2.7	82.0	2.3	1.2	6.2	79.5	84.6
Qatar	997	37.3	19.2	20.5	37.3	16.4	3.4	3.3	36.2	38.4
Russian Federation	645	93.9	1.9	1.2	93.9	0.6	1.4	1.0	97.5	90.3
Scotland	558	80.6	7.7	3.5	80.6	3.1	0.9	4.3	77.4	83.7
Singapore	724	76.8	11.6	6.2	76.8	5.0	0.2	0.2	78.1	75.3
Slovak Republic	716	94.1	0.6	2.0	94.1	1.2	1.0	1.1	93.0	95.2
Slovenia	613	86.0	6.4	1.9	86.0	2.1	2.0	1.7	83.8	88.1
Sweden	660	90.0	3.8	1.4	90.0	1.8	0.5	2.6	90.8	89.1
Tunisia	588	38.4	10.4	14.8	38.4	12.5	14.5	9.4	42.4	34.7
Ukraine	615	90.3	2.2	1.7	90.3	1.6	2.0	2.2	91.3	89.4
United States	1133	82.2	9.6	3.1	82.2	3.2	0.5	1.4	79.6	84.8
Yemen	824	35.3	12.0	21.6	35.3	14.0	10.7	6.4	34.8	35.7
International Avg.	636	78.3	6.0	5.2	78.3	4.9	2.4	3.2	77.9	78.7
Alberta, Canada	584	82.1	8.0	2.2	82.1	3.6	2.7	1.3	82.8	81.5
British Columbia, Canada	598	81.3	6.4	3.7	81.3	3.8	3.0	1.8	80.1	82.4
Dubai, UAE	423	50.3	18.2	17.7	50.3	10.1	2.1	1.7	50.2	50.4
Massachusetts, US	250	89.7	4.9	1.0	89.7	1.1	0.0	3.3	86.6	92.8
Minnesota, US	268	84.9	7.2	1.9	84.9	4.7	0.6	0.7	86.0	83.7
Ontario, Canada	500	75.9	11.2	3.8	75.9	3.2	3.5	2.5	75.0	76.7
Quebec, Canada	526	81.3	3.3	4.1	81.3	8.6	1.5	1.2	83.1	79.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031427 - S07\_07)  
 Label: Which powders are mixtures  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	576	26.4	12.3	26.4	28.9	21.6	3.3	7.5	31.0	21.8
Armenia	588	56.8	7.6	56.8	9.4	15.3	8.7	2.2	53.5	60.1
Australia	577	62.6	8.0	62.6	16.4	9.1	1.6	2.3	65.4	60.2
Austria	698	70.4	5.6	70.4	12.7	9.4	1.4	0.4	73.6	67.3
Chinese Taipei	586	68.6	6.0	68.6	16.9	7.0	1.1	0.4	71.5	66.0
Colombia	696	34.8	9.4	34.8	17.1	22.7	3.5	12.5	33.0	37.0
Czech Republic	609	59.6	8.6	59.6	13.9	10.4	5.8	1.7	63.0	57.2
Denmark	511	66.1	9.1	66.1	8.0	9.5	3.2	4.1	64.0	68.2
El Salvador	601	30.5	9.4	30.5	22.9	24.1	3.7	9.5	27.4	33.5
England	618	66.6	5.6	66.6	14.8	11.0	1.1	0.9	66.2	67.0
Georgia	576	52.3	6.7	52.3	17.7	13.2	4.3	5.9	55.4	50.0
Germany	744	69.9	4.0	69.9	14.8	5.6	2.2	3.5	69.4	70.3
Hong Kong SAR	531	70.9	5.6	70.9	14.6	8.5	0.4	0.0	70.2	71.3
Hungary	572	67.0	6.2	67.0	8.5	13.6	1.7	3.0	67.4	66.7
Iran, Islamic Rep. of	548	32.4	16.6	32.4	25.5	14.0	3.5	8.0	33.6	31.4
Italy	629	57.7	7.5	57.7	20.7	8.5	3.6	2.1	54.3	60.8
Japan	646	75.8	4.2	75.8	11.3	6.8	0.4	1.5	72.1	79.2
Kazakhstan	567	70.5	4.2	70.5	17.5	7.7	0.1	0.0	73.5	67.6
Kuwait	533	34.2	13.3	34.2	23.3	20.5	6.5	2.3	37.7	30.4
Latvia	570	71.5	6.6	71.5	12.2	8.7	0.3	0.8	73.3	70.0
Lithuania	576	57.8	11.0	57.8	10.7	17.7	1.0	1.6	56.5	59.2
Morocco	535	24.4	11.0	24.4	31.7	17.6	6.5	8.8	23.4	24.8
Netherlands	473	83.3	2.9	83.3	7.5	4.3	0.7	1.3	82.9	83.7
New Zealand	696	53.1	8.7	53.1	19.5	13.0	2.4	3.3	52.9	53.3
Norway	579	57.6	6.8	57.6	13.2	10.6	5.4	6.5	56.3	59.0
Qatar	997	32.6	19.1	32.6	25.2	17.7	2.0	3.4	30.4	35.0
Russian Federation	645	68.3	5.4	68.3	14.4	8.6	2.0	1.3	69.5	67.0
Scotland	558	55.8	7.8	55.8	15.0	14.2	2.9	4.3	57.7	54.0
Singapore	724	79.5	5.5	79.5	9.8	5.0	0.0	0.2	81.9	76.9
Slovak Republic	716	49.3	10.7	49.3	15.0	20.4	3.3	1.3	50.4	48.3
Slovenia	613	66.2	6.4	66.2	12.8	9.8	3.0	1.9	73.2	59.3
Sweden	660	68.0	7.3	68.0	11.7	8.9	1.3	2.8	70.5	65.4
Tunisia	588	26.6	11.5	26.6	21.1	15.2	14.6	11.1	27.0	26.3
Ukraine	615	48.6	8.0	48.6	24.6	14.7	1.6	2.6	46.6	50.4
United States	1133	75.7	4.4	75.7	11.6	6.1	0.8	1.4	75.6	75.9
Yemen	824	21.2	9.5	21.2	26.8	27.5	8.2	6.7	24.5	18.6
International Avg.	636	55.9	8.1	55.9	16.6	12.7	3.1	3.5	56.5	55.4
Alberta, Canada	584	66.1	6.7	66.1	14.7	8.3	2.9	1.3	68.9	63.3
British Columbia, Canada	598	58.7	8.1	58.7	18.9	8.8	3.6	1.9	58.4	59.0
Dubai, UAE	423	53.1	10.6	53.1	22.8	9.6	2.2	1.7	56.9	49.4
Massachusetts, US	250	76.8	5.1	76.8	8.9	5.9	0.0	3.3	70.6	82.6
Minnesota, US	268	73.6	4.7	73.6	12.3	7.4	1.3	0.7	73.3	73.9
Ontario, Canada	500	61.1	7.8	61.1	14.2	10.2	3.5	3.2	66.0	56.3
Quebec, Canada	526	59.4	8.2	59.4	16.4	11.5	3.2	1.3	57.9	61.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031075 - S07\_08)  
 Label: Which ice takes the longest to melt  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	578	46.9	46.9	8.9	15.8	16.5	3.5	8.4	48.4	45.3
Armenia	587	56.8	56.8	6.0	11.1	16.4	6.7	3.1	55.3	58.3
Australia	577	61.8	61.8	8.6	13.5	13.2	0.2	2.7	58.6	64.3
Austria	698	59.6	59.6	7.6	18.6	12.5	1.0	0.7	59.6	59.6
Chinese Taipei	586	69.4	69.4	6.5	14.8	7.6	1.4	0.4	67.2	71.4
Colombia	696	44.5	44.5	4.7	7.0	27.5	3.0	13.3	45.3	43.5
Czech Republic	609	48.5	48.5	10.5	22.5	16.4	0.5	1.7	44.0	51.8
Denmark	512	52.7	52.7	11.4	17.7	12.5	1.5	4.0	55.2	50.3
El Salvador	601	46.3	46.3	8.1	11.4	22.5	1.8	10.0	47.0	45.7
England	618	57.0	57.0	10.6	19.1	11.3	1.0	1.0	57.8	56.3
Georgia	576	46.2	46.2	6.5	14.2	22.0	4.7	6.4	47.2	45.4
Germany	744	58.9	58.9	7.2	18.9	9.6	1.0	4.3	55.9	61.4
Hong Kong SAR	531	62.1	62.1	8.4	12.1	16.2	1.1	0.0	61.9	62.3
Hungary	572	43.0	43.0	3.1	17.6	32.7	0.4	3.2	41.2	44.6
Iran, Islamic Rep. of	548	46.7	46.7	7.5	14.6	20.5	1.7	9.0	41.6	51.1
Italy	628	45.8	45.8	5.7	20.2	24.3	1.8	2.2	46.0	45.6
Japan	646	68.8	68.8	8.3	9.2	11.6	0.7	1.5	66.8	70.5
Kazakhstan	567	76.0	76.0	7.4	10.6	5.9	0.1	0.0	71.1	80.9
Kuwait	533	44.9	44.9	10.4	15.0	22.9	4.5	2.3	44.1	45.7
Latvia	570	61.6	61.6	8.2	14.7	13.0	1.6	0.9	61.1	62.1
Lithuania	576	58.3	58.3	10.1	16.9	12.5	0.7	1.6	52.1	64.1
Morocco	530	40.6	40.6	10.3	15.7	15.9	7.3	10.2	46.2	34.1
Netherlands	473	65.1	65.1	11.4	17.2	4.9	0.2	1.3	62.8	67.6
New Zealand	696	67.3	67.3	5.0	9.6	12.5	1.8	3.8	62.6	71.6
Norway	579	52.8	52.8	6.7	18.6	12.5	0.9	8.5	54.8	50.6
Qatar	997	46.0	46.0	10.1	13.3	22.9	4.0	3.7	47.7	44.2
Russian Federation	645	60.9	60.9	9.6	22.9	4.9	0.4	1.4	55.2	66.7
Scotland	558	53.4	53.4	9.2	20.2	11.1	1.5	4.5	54.4	52.5
Singapore	724	77.1	77.1	8.4	6.5	7.1	0.7	0.2	78.4	75.8
Slovak Republic	716	49.1	49.1	5.4	23.0	20.0	0.6	1.8	44.7	53.8
Slovenia	613	52.4	52.4	7.8	15.1	21.9	0.7	2.1	55.4	49.5
Sweden	660	51.0	51.0	6.9	20.0	18.4	0.8	3.0	56.5	45.2
Tunisia	588	36.5	36.5	12.3	12.9	15.8	11.0	11.6	37.8	35.4
Ukraine	615	58.1	58.1	10.8	18.9	8.0	1.4	2.8	55.4	60.6
United States	1133	66.2	66.2	7.4	12.6	10.0	2.3	1.5	63.7	68.7
Yemen	825	39.8	39.8	9.4	13.6	18.1	12.1	7.0	44.2	36.3
International Avg.	636	54.8	54.8	8.2	15.4	15.3	2.4	3.9	54.1	55.3
Alberta, Canada	584	70.9	70.9	6.5	10.3	9.5	1.3	1.4	69.1	72.8
British Columbia, Canada	598	67.4	67.4	6.8	12.7	9.2	1.8	2.1	62.6	71.8
Dubai, UAE	423	56.5	56.5	8.9	10.5	18.2	4.2	1.7	56.8	56.2
Massachusetts, US	250	73.2	73.2	4.6	11.5	4.8	2.6	3.3	69.8	76.4
Minnesota, US	268	72.6	72.6	5.7	10.9	7.7	1.5	1.5	70.3	75.2
Ontario, Canada	500	62.0	62.0	10.4	14.6	8.3	1.0	3.7	61.9	62.2
Quebec, Canada	526	50.9	50.9	10.3	18.9	16.7	1.8	1.4	49.0	53.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Reasoning (S031047 - S07\_09)  
 Label: Water on cars parked overnight  
 Type: CR Key: -

COUNTRY	N	10	11	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	606	5.3	18.8	0.2	7.8	4.3	28.0	26.6	8.9	24.4	25.0	23.7
Armenia	590	11.3	36.0	1.3	4.0	3.4	13.3	27.2	3.5	48.7	52.8	44.5
Australia	577	2.0	46.2	0.0	3.1	11.8	26.3	7.6	3.0	48.2	54.1	43.3
Austria	698	0.1	59.6	0.0	4.1	1.0	19.5	14.8	0.9	59.7	59.2	60.2
Chinese Taipei	586	3.7	58.5	0.2	2.7	17.1	8.6	8.7	0.6	62.4	60.3	64.2
Colombia	696	0.3	24.9	0.0	5.7	8.5	28.4	17.6	14.5	25.2	23.9	26.9
Czech Republic	609	0.7	65.0	0.0	4.5	2.8	10.0	15.1	1.8	65.8	65.9	65.7
Denmark	512	9.1	56.4	0.0	2.9	2.7	15.5	9.3	4.0	65.5	67.9	63.2
El Salvador	601	0.4	26.7	0.1	4.3	10.0	26.1	21.1	11.3	27.2	24.0	30.3
England	618	21.8	25.6	0.1	7.3	7.3	27.9	9.1	1.0	47.4	51.3	44.0
Georgia	576	4.9	22.1	0.6	8.4	12.5	10.8	32.9	7.8	27.6	35.3	22.1
Germany	744	1.3	43.9	0.0	5.5	1.1	32.6	11.1	4.4	45.3	46.2	44.6
Hong Kong SAR	531	0.8	51.5	0.6	4.0	10.9	26.5	5.5	0.3	52.9	50.1	55.0
Hungary	572	9.7	54.5	0.1	4.1	7.6	10.2	10.3	3.5	64.3	68.7	60.5
Iran, Islamic Rep. of	548	0.0	21.2	2.3	5.2	12.1	29.7	19.8	9.8	23.5	22.1	24.7
Italy	629	4.1	63.2	0.1	1.6	4.6	14.2	9.6	2.6	67.4	66.7	68.0
Japan	646	0.7	51.9	0.1	3.9	4.9	31.4	5.1	2.0	52.7	51.7	53.6
Kazakhstan	567	2.1	58.4	0.0	13.9	4.4	14.6	6.6	0.0	60.5	59.9	61.0
Kuwait	533	3.4	18.1	0.7	9.8	3.8	23.6	37.5	3.1	22.3	28.0	16.2
Latvia	570	3.6	61.5	0.9	2.8	3.6	20.8	5.1	1.6	66.1	67.5	64.9
Lithuania	576	2.1	62.7	0.3	9.6	9.4	6.3	7.7	1.9	65.1	69.0	61.4
Morocco	557	0.0	16.8	2.6	5.2	3.1	17.9	43.5	10.9	19.4	24.6	13.7
Netherlands	473	2.0	55.7	0.0	3.1	0.8	34.9	2.2	1.3	57.8	55.1	60.6
New Zealand	696	6.1	42.4	0.0	5.9	9.3	22.9	9.1	4.3	48.5	52.5	44.8
Norway	579	0.2	41.8	0.1	10.0	3.5	21.1	14.5	8.8	42.1	44.4	39.5
Qatar	997	0.3	18.8	0.2	9.1	3.5	27.2	36.4	4.5	19.4	19.0	19.8
Russian Federation	645	1.8	57.7	0.0	5.8	7.6	15.8	9.9	1.4	59.5	57.1	62.0
Scotland	558	5.1	26.9	0.0	6.5	15.9	26.9	13.8	4.8	32.0	31.6	32.5
Singapore	724	26.6	45.1	0.1	3.0	2.6	20.9	1.5	0.2	71.8	73.3	70.3
Slovak Republic	716	2.3	67.9	0.3	5.0	1.9	10.4	10.1	2.1	70.4	68.9	72.0
Slovenia	613	0.7	60.5	0.9	9.4	6.8	12.6	6.4	2.7	62.1	62.0	62.3
Sweden	660	0.7	59.6	0.2	7.9	3.3	17.1	7.9	3.3	60.6	66.0	54.9
Tunisia	588	8.3	19.4	0.1	6.8	2.3	26.1	24.5	12.4	27.8	32.9	23.3
Ukraine	615	0.9	41.5	0.1	9.9	11.0	12.9	20.5	3.2	42.5	45.7	39.4
United States	1133	3.5	53.3	2.0	6.4	10.7	17.2	4.9	1.9	58.9	60.1	57.7
Yemen	825	1.7	2.5	0.9	7.0	0.8	33.6	45.4	8.1	5.1	5.3	4.9
International Avg.	638	4.1	42.7	0.4	6.0	6.3	20.6	15.5	4.4	47.2	48.6	46.0
Alberta, Canada	584	1.3	46.2	0.1	8.9	11.0	23.5	7.5	1.6	47.5	46.0	49.0
British Columbia, Canada	598	5.1	43.2	0.2	5.6	9.5	23.1	10.6	2.6	48.6	52.8	44.8
Dubai, UAE	423	6.5	33.4	0.8	6.9	5.1	29.5	14.8	2.9	40.8	43.8	37.8
Massachusetts, US	250	4.8	54.4	1.1	9.3	4.8	16.4	5.2	4.1	60.3	61.2	59.4
Minnesota, US	268	3.0	54.5	3.9	6.9	9.3	16.7	3.7	2.0	61.4	63.7	58.8
Ontario, Canada	500	0.7	45.9	0.0	8.0	12.1	22.1	7.2	4.0	46.6	44.6	48.6
Quebec, Canada	526	0.3	45.3	0.2	12.2	11.6	19.7	8.9	1.7	45.9	43.2	48.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S031387 - S07\_10)  
 Label: Evidence of oceans once covered land  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	584	22.7	21.2	27.0	22.7	16.8	2.4	10.0	19.3	26.1
Armenia	588	27.8	26.5	18.3	27.8	11.6	10.6	5.2	26.2	29.4
Australia	576	35.0	35.2	8.1	35.0	16.5	1.5	3.6	32.1	37.5
Austria	698	57.9	13.0	12.5	57.9	12.5	2.8	1.3	56.6	59.1
Chinese Taipei	586	33.3	26.4	9.7	33.3	29.5	0.4	0.7	28.1	38.0
Colombia	696	13.2	31.0	18.7	13.2	17.7	3.2	16.2	13.1	13.3
Czech Republic	609	33.9	23.6	15.7	33.9	22.0	2.7	2.0	33.4	34.3
Denmark	509	30.5	27.7	12.8	30.5	19.2	4.7	5.1	28.6	32.4
El Salvador	601	8.8	37.9	24.0	8.8	15.2	1.0	13.1	9.7	8.0
England	618	37.5	32.2	11.3	37.5	15.6	1.9	1.5	36.0	38.8
Georgia	576	21.4	24.8	17.0	21.4	22.3	4.8	9.7	19.1	23.0
Germany	744	53.0	12.7	13.8	53.0	11.8	4.0	4.6	45.1	59.5
Hong Kong SAR	531	35.4	39.2	16.3	35.4	8.0	0.7	0.3	35.6	35.3
Hungary	572	23.5	31.4	15.5	23.5	22.6	3.1	3.9	20.5	26.1
Iran, Islamic Rep. of	548	14.8	31.8	18.9	14.8	20.7	2.8	11.0	13.5	16.0
Italy	627	52.8	24.3	8.9	52.8	7.6	3.1	3.4	49.8	55.6
Japan	646	38.7	15.7	21.6	38.7	19.8	1.9	2.3	29.8	46.8
Kazakhstan	567	40.5	29.8	11.0	40.5	18.4	0.3	0.0	35.1	45.9
Kuwait	.	.	.	.	.	.	.	.	.	.
Latvia	570	15.7	37.7	17.3	15.7	25.0	2.8	1.6	12.6	18.3
Lithuania	576	19.3	42.6	15.0	19.3	17.2	3.5	2.4	16.3	22.2
Morocco	537	22.1	22.1	21.5	22.1	14.3	6.2	13.8	20.9	23.9
Netherlands	473	57.7	20.5	7.8	57.7	12.0	0.8	1.3	55.9	59.5
New Zealand	696	33.4	34.1	9.8	33.4	15.3	2.2	5.2	36.6	30.5
Norway	579	32.7	19.0	10.6	32.7	25.1	2.1	10.5	29.6	36.1
Qatar	.	.	.	.	.	.	.	.	.	.
Russian Federation	645	36.3	24.1	14.4	36.3	21.0	1.8	2.5	39.1	33.3
Scotland	558	28.1	35.8	10.7	28.1	16.7	3.0	5.7	24.6	31.6
Singapore	724	31.1	33.6	21.0	31.1	13.7	0.2	0.5	28.3	34.1
Slovak Republic	716	23.0	32.0	17.5	23.0	22.1	2.6	2.7	22.0	24.2
Slovenia	613	25.3	30.9	14.2	25.3	21.7	4.1	3.8	23.5	27.2
Sweden	660	45.1	22.7	8.1	45.1	19.0	1.6	3.5	42.5	47.9
Tunisia	.	.	.	.	.	.	.	.	.	.
Ukraine	615	13.6	31.0	16.9	13.6	31.9	1.9	4.6	10.4	16.6
United States	1133	46.7	26.1	11.3	46.7	11.7	1.6	2.5	49.0	44.5
Yemen	825	26.0	16.0	24.3	26.0	16.1	7.3	10.3	19.1	31.3
International Avg.	630	31.4	27.7	15.2	31.4	17.9	2.8	5.0	29.2	33.5
Alberta, Canada	584	55.4	22.6	8.1	55.4	10.3	1.8	1.8	57.8	53.1
British Columbia, Canada	598	36.6	33.5	9.4	36.6	14.5	2.2	3.8	37.4	35.8
Dubai, UAE	423	19.6	41.6	19.2	19.6	11.9	3.7	3.9	23.5	15.8
Massachusetts, US	250	49.4	26.9	5.9	49.4	11.0	2.4	4.4	47.4	51.3
Minnesota, US	268	48.9	29.0	9.8	48.9	9.6	0.6	2.0	50.4	47.2
Ontario, Canada	500	44.2	29.1	10.5	44.2	9.2	2.4	4.6	41.5	46.8
Quebec, Canada	526	31.9	30.2	12.8	31.9	19.2	3.7	2.2	28.5	35.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031396A - S07\_11A)  
 Label: Two things wood is used for  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	603	3.2	5.5	30.4	4.7	0.0	20.0	25.0	11.2	43.8	48.7	38.9
Armenia	590	13.0	4.5	12.7	32.0	6.1	9.4	16.4	6.0	68.2	70.7	65.7
Australia	577	4.1	28.1	28.8	16.2	0.7	11.1	6.6	4.2	78.0	77.4	78.5
Austria	698	4.6	23.8	23.3	40.4	0.1	1.4	5.0	1.5	92.2	91.5	92.8
Chinese Taipei	586	9.2	16.9	53.3	12.5	0.4	4.0	3.1	0.7	92.3	93.9	90.9
Colombia	696	1.0	13.3	38.1	2.1	0.4	12.7	15.9	16.6	54.8	57.3	51.8
Czech Republic	609	5.1	13.8	34.9	35.4	0.8	2.0	5.4	2.6	90.0	89.0	90.7
Denmark	512	20.8	13.1	24.7	17.2	0.0	13.7	4.9	5.6	75.9	78.4	73.4
El Salvador	601	1.0	14.7	27.1	5.0	0.5	18.2	20.0	13.4	48.4	46.7	50.0
England	618	14.9	0.1	46.5	13.7	0.2	17.1	6.0	1.5	75.4	80.5	70.8
Georgia	576	7.6	17.1	29.4	6.0	1.4	10.9	17.9	9.8	61.4	65.0	58.9
Germany	744	9.7	18.1	24.0	34.1	0.1	3.3	4.9	5.7	86.1	86.9	85.5
Hong Kong SAR	531	34.2	11.4	36.5	7.5	0.6	6.3	2.9	0.6	90.2	91.2	89.4
Hungary	572	7.5	5.1	17.0	38.8	14.3	7.8	4.4	5.1	82.7	88.4	77.7
Iran, Islamic Rep. of	548	7.0	10.8	36.3	7.7	1.7	12.6	11.8	12.1	63.4	68.2	59.4
Italy	629	4.2	10.2	37.4	17.7	0.9	11.6	13.4	4.6	70.4	69.1	71.7
Japan	646	23.5	19.2	39.5	0.1	1.0	10.1	3.6	3.0	83.3	82.7	83.8
Kazakhstan	567	9.2	18.7	16.7	24.1	0.2	25.9	5.2	0.0	68.9	70.3	67.6
Kuwait	533	0.2	14.3	26.5	3.8	7.1	11.4	28.9	7.7	52.0	61.8	41.5
Latvia	570	10.6	14.4	33.4	18.2	4.9	14.0	1.8	2.6	81.5	82.2	80.9
Lithuania	576	7.7	25.0	32.5	23.6	2.2	1.6	4.9	2.5	91.0	91.8	90.2
Morocco	557	1.5	1.3	20.0	4.7	0.7	16.3	40.2	15.3	28.1	32.1	23.3
Netherlands	473	7.7	16.2	37.0	27.1	0.2	9.6	1.0	1.3	88.1	89.3	86.9
New Zealand	696	8.3	39.7	14.5	21.0	0.0	5.5	5.4	5.5	83.5	87.1	80.1
Norway	579	9.7	19.9	11.6	19.4	4.0	15.2	9.3	10.9	64.7	65.6	63.7
Qatar	997	0.7	7.1	30.4	2.3	0.4	21.0	31.8	6.3	40.9	46.3	35.1
Russian Federation	645	8.9	33.4	20.1	21.7	0.5	4.4	8.4	2.7	84.5	83.7	85.5
Scotland	558	12.9	0.7	49.6	8.5	0.0	16.6	5.4	6.2	71.8	73.2	70.3
Singapore	724	16.8	7.3	41.1	21.4	0.0	10.8	2.1	0.5	86.7	89.4	83.8
Slovak Republic	715	10.1	8.6	33.1	34.5	0.6	5.2	4.5	3.3	87.0	88.0	85.9
Slovenia	613	6.2	19.1	33.1	19.4	0.3	10.3	6.9	4.8	78.1	78.0	78.2
Sweden	660	24.8	28.7	27.7	6.2	0.2	5.6	3.2	3.7	87.6	88.4	86.8
Tunisia	588	0.5	7.1	21.3	10.9	1.3	22.6	20.3	16.1	41.0	41.9	40.2
Ukraine	615	4.9	10.7	24.3	11.8	0.7	14.6	28.0	5.1	52.3	49.8	54.7
United States	1133	12.5	34.0	17.7	20.6	1.0	5.9	5.5	2.9	85.8	87.5	84.1
Yemen	825	0.4	6.1	7.2	1.7	2.2	27.8	42.5	12.2	17.5	20.9	14.9
International Avg.	638	9.0	14.9	28.8	16.4	1.5	11.6	11.7	5.9	70.8	72.6	69.0
Alberta, Canada	584	9.6	42.0	18.9	16.9	0.0	5.7	4.9	2.1	87.4	88.8	86.1
British Columbia, Canada	598	8.6	38.6	15.9	19.1	0.4	7.5	5.6	4.2	82.6	84.3	81.1
Dubai, UAE	423	5.5	16.1	34.3	10.6	1.3	14.0	13.7	4.4	67.9	74.9	61.0
Massachusetts, US	250	9.5	44.1	11.4	18.6	0.8	4.6	5.6	5.4	84.4	84.5	84.3
Minnesota, US	268	13.2	36.5	17.9	21.6	0.8	4.9	3.1	2.0	90.0	90.0	90.1
Ontario, Canada	500	8.9	30.5	28.9	13.2	0.0	7.8	4.6	6.0	81.6	83.1	80.1
Quebec, Canada	526	12.6	21.3	14.2	29.3	0.0	12.6	7.7	2.4	77.2	74.5	80.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031396B - S07\_11B)  
 Label: Two things wood is used for  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	1.2	3.6	16.2	5.5	0.6	33.8	27.8	11.2	27.2	28.5	25.8
Armenia	590	9.6	11.3	18.6	12.9	8.4	10.9	22.3	6.0	60.8	66.2	55.3
Australia	577	5.6	15.0	38.1	11.1	1.9	16.4	7.7	4.2	71.6	72.5	71.0
Austria	698	4.7	28.4	34.9	13.4	0.0	10.2	6.9	1.5	81.4	79.4	83.5
Chinese Taipei	586	7.6	12.9	52.6	11.1	0.6	8.5	6.0	0.7	84.9	89.8	80.5
Colombia	696	1.0	4.4	26.8	2.3	1.7	29.0	18.2	16.6	36.3	33.3	39.9
Czech Republic	609	7.2	19.7	33.8	17.4	0.8	10.7	7.9	2.6	78.8	78.1	79.3
Denmark	512	12.0	12.6	33.3	13.7	0.0	16.4	6.4	5.6	71.6	71.7	71.5
El Salvador	600	1.1	9.2	19.1	6.0	1.2	26.5	23.5	13.4	36.6	35.0	38.2
England	618	9.7	0.4	54.5	9.9	0.0	16.8	7.2	1.5	74.5	79.3	70.2
Georgia	576	5.5	10.1	15.8	9.2	2.2	23.5	23.8	9.8	42.9	43.1	42.7
Germany	744	6.1	20.0	31.3	14.5	0.1	15.4	6.9	5.7	72.1	73.4	71.0
Hong Kong SAR	531	13.4	13.9	46.5	5.9	1.2	14.4	4.1	0.6	81.0	82.2	80.1
Hungary	572	4.0	17.1	24.5	17.6	8.9	15.3	7.7	5.1	71.9	77.2	67.3
Iran, Islamic Rep. of	548	8.6	7.5	26.0	4.7	1.1	24.1	15.8	12.1	48.0	51.2	45.3
Italy	629	6.3	9.7	21.6	20.6	1.8	19.5	16.0	4.6	60.0	59.7	60.3
Japan	646	7.9	13.9	48.2	0.1	0.4	20.6	5.8	3.0	70.5	68.9	71.9
Kazakhstan	567	10.2	11.4	18.9	20.5	0.0	28.9	10.2	0.0	61.0	60.2	61.7
Kuwait	533	0.1	6.2	29.5	2.2	8.4	13.6	32.3	7.7	46.4	56.2	35.8
Latvia	570	6.9	14.1	32.6	13.5	5.3	21.2	3.7	2.6	72.5	77.6	68.1
Lithuania	576	7.5	16.5	26.3	20.1	4.7	14.2	8.2	2.5	75.1	77.9	72.4
Morocco	557	1.8	1.7	19.0	2.1	1.3	14.8	44.0	15.3	25.9	31.5	19.0
Netherlands	473	11.1	15.2	43.1	11.7	1.7	14.4	1.5	1.3	82.8	83.2	82.3
New Zealand	696	6.4	19.8	35.7	13.6	0.3	12.3	6.5	5.5	75.7	77.6	73.9
Norway	579	4.5	18.3	20.1	13.6	2.7	19.8	10.1	10.9	59.3	60.7	57.7
Qatar	997	0.6	3.3	32.9	1.1	0.0	22.0	33.8	6.3	37.9	43.6	31.8
Russian Federation	645	9.8	21.5	28.8	18.5	0.0	7.0	11.7	2.7	78.6	77.1	80.2
Scotland	558	10.4	0.4	52.1	9.9	0.0	13.8	7.2	6.2	72.7	72.9	72.5
Singapore	724	11.3	8.9	50.6	11.9	0.0	14.4	2.6	0.5	82.6	87.0	77.9
Slovak Republic	715	9.0	11.2	32.4	20.1	1.2	15.8	7.0	3.3	73.9	74.1	73.6
Slovenia	613	5.0	11.5	38.9	13.3	0.7	17.4	8.4	4.8	69.4	70.6	68.2
Sweden	660	15.2	17.4	39.9	10.1	0.2	8.8	4.7	3.7	82.9	83.9	81.8
Tunisia	588	0.0	2.4	12.8	5.0	0.8	36.5	26.4	16.1	21.0	21.3	20.8
Ukraine	615	4.1	8.9	13.0	8.7	2.1	22.7	35.5	5.1	36.7	35.6	37.8
United States	1133	9.1	23.8	32.1	11.1	2.7	12.2	6.2	2.9	78.8	80.1	77.5
Yemen	825	0.1	1.8	7.6	1.1	2.0	30.7	44.5	12.2	12.6	15.2	10.6
International Avg.	638	6.5	11.8	30.8	10.7	1.8	18.1	14.4	5.9	61.5	63.2	59.9
Alberta, Canada	584	7.9	21.7	33.0	12.0	0.0	18.1	5.1	2.1	74.7	75.9	73.5
British Columbia, Canada	598	7.1	25.3	31.6	11.0	0.4	14.4	6.0	4.2	75.5	74.6	76.3
Dubai, UAE	423	7.8	13.8	23.1	6.7	2.0	25.7	16.4	4.4	53.5	58.1	48.9
Massachusetts, US	250	11.8	20.0	28.7	16.8	3.4	7.2	6.6	5.4	80.8	77.6	83.9
Minnesota, US	268	10.0	20.8	31.3	15.5	1.9	15.1	3.5	2.0	79.4	82.8	75.7
Ontario, Canada	500	10.7	19.1	32.8	12.8	0.0	13.3	5.3	6.0	75.4	74.2	76.6
Quebec, Canada	526	5.4	21.7	32.7	9.3	0.1	18.8	9.6	2.4	69.2	63.9	75.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S031396D - S07\_11D)  
 Label: Two things wood is used for/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
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Algeria	603	24.0	23.1	17.0	24.8	11.2	47.0	24.0	26.2	21.7
Armenia	590	57.7	13.5	6.5	16.3	6.0	71.3	57.7	62.0	53.4
Australia	577	65.6	18.5	5.2	6.5	4.2	84.1	65.6	66.1	65.1
Austria	698	80.8	11.9	0.8	5.0	1.5	92.8	80.8	78.6	83.1
Chinese Taipei	586	83.0	11.1	2.1	3.1	0.7	94.1	83.0	87.5	79.1
Colombia	696	33.1	24.9	9.9	15.5	16.6	58.0	33.1	30.9	35.8
Czech Republic	609	78.1	12.5	1.3	5.4	2.6	90.7	78.1	77.5	78.6
Denmark	512	65.9	15.7	8.0	4.9	5.6	81.6	65.9	66.6	65.3
El Salvador	600	32.0	20.9	14.0	19.6	13.4	52.9	32.0	30.5	33.4
England	618	66.2	17.5	8.9	6.0	1.5	83.7	66.2	74.5	58.8
Georgia	576	39.1	26.2	7.1	17.9	9.8	65.2	39.1	40.5	38.1
Germany	744	70.9	16.5	2.1	4.9	5.7	87.3	70.9	72.2	69.8
Hong Kong SAR	531	77.6	16.1	2.9	2.9	0.6	93.6	77.6	78.8	76.6
Hungary	572	68.5	17.6	4.6	4.2	5.1	86.1	68.5	73.5	64.2
Iran, Islamic Rep. of	548	45.2	21.1	10.0	11.6	12.1	66.3	45.2	47.4	43.2
Italy	629	55.6	19.3	7.5	13.0	4.6	74.9	55.6	55.8	55.3
Japan	646	69.0	15.9	8.5	3.6	3.0	84.8	69.0	68.8	69.2
Kazakhstan	567	50.1	29.8	15.1	5.1	0.0	79.8	50.1	50.2	49.9
Kuwait	533	44.8	8.7	10.8	27.9	7.7	53.5	44.8	54.5	34.4
Latvia	570	67.2	19.6	8.7	1.8	2.6	86.8	67.2	70.9	64.0
Lithuania	576	74.6	16.8	1.2	4.9	2.5	91.4	74.6	77.6	71.8
Morocco	557	22.7	8.6	14.7	38.7	15.3	31.3	22.7	27.9	16.4
Netherlands	473	77.9	15.2	4.9	0.8	1.3	93.0	77.9	79.1	76.5
New Zealand	696	73.5	12.2	3.3	5.4	5.5	85.7	73.5	75.7	71.4
Norway	579	53.9	16.1	11.4	7.7	10.9	70.0	53.9	55.6	52.1
Qatar	997	35.5	7.8	19.6	30.8	6.3	43.3	35.5	40.7	29.9
Russian Federation	645	77.1	9.0	2.9	8.4	2.7	86.1	77.1	75.6	78.6
Scotland	558	64.7	15.2	8.7	5.3	6.2	79.9	64.7	66.4	62.9
Singapore	724	77.6	14.2	5.7	2.1	0.5	91.7	77.6	82.2	72.6
Slovak Republic	715	71.6	17.6	3.0	4.5	3.3	89.2	71.6	73.3	69.9
Slovenia	613	67.4	12.7	8.6	6.6	4.8	80.1	67.4	68.2	66.7
Sweden	660	81.4	7.6	4.1	3.2	3.7	89.1	81.4	82.1	80.8
Tunisia	588	17.5	27.1	20.3	19.0	16.1	44.6	17.5	15.6	19.2
Ukraine	615	33.6	21.8	11.8	27.8	5.1	55.4	33.6	30.8	36.3
United States	1133	76.5	11.6	3.6	5.5	2.9	88.1	76.5	78.0	75.0
Yemen	825	11.4	7.3	31.8	37.3	12.2	18.7	11.4	13.2	10.0
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International Avg.	638	58.1	16.1	8.5	11.3	5.9	74.2	58.1	59.9	56.4
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Alberta, Canada	584	71.6	18.9	2.5	4.9	2.1	90.5	71.6	74.7	68.5
British Columbia, Canada	598	72.9	12.3	5.0	5.5	4.2	85.2	72.9	72.3	73.4
Dubai, UAE	423	50.0	21.3	10.6	13.7	4.4	71.3	50.0	55.4	44.7
Massachusetts, US	250	77.4	10.5	1.2	5.6	5.4	87.8	77.4	75.1	79.5
Minnesota, US	268	77.8	13.9	3.2	3.1	2.0	91.7	77.8	81.1	74.0
Ontario, Canada	500	71.2	14.5	3.6	4.6	6.0	85.7	71.2	71.6	70.8
Quebec, Canada	526	65.0	16.5	8.4	7.7	2.4	81.5	65.0	60.3	70.1
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041009 - S08\_01)  
 Label: Digestion takes place in which organ  
 Type: MC Key: D

COUNTRY	N	S	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	581	0.0	53.4	8.7	18.5	16.7	53.4	2.6	0.1	54.8	52.1
Armenia	596	0.0	86.6	3.0	1.5	1.9	86.6	6.5	0.4	87.4	86.0
Australia	579	0.0	69.2	9.8	10.4	8.7	69.2	1.7	0.3	69.0	69.5
Austria	688	0.0	95.8	1.8	1.2	0.8	95.8	0.4	0.0	95.3	96.3
Chinese Taipei	590	0.0	95.8	1.0	1.4	1.2	95.8	0.6	0.0	97.5	94.2
Colombia	688	0.0	66.9	16.8	9.7	5.3	66.9	1.1	0.1	65.1	69.1
Czech Republic	611	0.0	92.7	1.4	1.4	3.3	92.7	1.1	0.1	94.3	91.6
Denmark	505	0.0	75.7	4.3	4.9	12.3	75.7	2.5	0.4	69.8	81.8
El Salvador	596	0.0	71.2	8.8	8.7	10.7	71.2	0.7	0.0	73.1	69.4
England	623	0.0	73.3	10.1	5.9	9.7	73.3	1.0	0.0	73.5	73.1
Georgia	570	0.0	95.3	0.8	1.2	2.4	95.3	0.3	0.1	96.3	94.5
Germany	748	0.0	94.3	3.0	1.3	0.8	94.3	0.6	0.0	93.9	94.6
Hong Kong SAR	543	0.0	94.7	0.9	1.6	2.3	94.7	0.4	0.0	95.4	94.2
Hungary	574	0.0	93.3	1.2	3.1	1.8	93.3	0.3	0.3	93.0	93.7
Iran, Islamic Rep. of	542	0.0	43.5	17.9	22.0	12.0	43.5	4.5	0.2	44.2	42.8
Italy	635	0.0	97.1	0.8	0.6	1.0	97.1	0.3	0.2	98.6	95.8
Japan	632	0.0	84.0	6.8	5.0	3.3	84.0	1.0	0.0	83.9	84.0
Kazakhstan	567	0.0	98.1	1.2	0.1	0.7	98.1	0.0	0.0	98.0	98.2
Kuwait	534	0.0	63.6	11.5	12.1	9.6	63.6	2.3	0.9	68.9	58.1
Latvia	563	0.0	93.0	2.0	1.5	1.8	93.0	1.6	0.0	92.1	94.1
Lithuania	561	48.4	47.2	1.2	1.9	1.3	47.2	0.1	0.0	49.7	44.9
Morocco	548	0.0	54.8	9.5	21.1	10.4	54.8	4.2	0.0	56.1	52.7
Netherlands	481	0.0	69.8	11.3	1.2	16.2	69.8	1.5	0.0	71.9	67.8
New Zealand	711	0.0	55.7	15.0	11.5	16.6	55.7	1.3	0.0	55.6	55.7
Norway	570	0.0	47.1	15.2	14.8	19.6	47.1	2.9	0.4	44.5	49.9
Qatar	994	0.0	54.6	11.9	17.3	12.3	54.6	3.3	0.5	56.6	52.6
Russian Federation	637	0.0	97.3	1.1	0.2	0.8	97.3	0.7	0.0	98.4	96.0
Scotland	562	0.0	66.2	11.3	8.3	13.7	66.2	0.4	0.0	70.5	61.3
Singapore	723	0.0	91.3	3.1	2.4	3.1	91.3	0.0	0.0	94.0	88.8
Slovak Republic	715	0.0	93.5	1.5	1.7	2.6	93.5	0.7	0.0	93.5	93.5
Slovenia	619	0.0	88.0	4.0	3.3	3.8	88.0	1.0	0.0	89.0	87.0
Sweden	658	0.0	72.1	3.1	2.0	22.0	72.1	0.8	0.0	73.7	70.4
Tunisia	591	0.0	60.6	8.5	11.4	11.3	60.6	7.6	0.5	64.3	57.1
Ukraine	610	0.0	92.1	5.1	1.5	0.9	92.1	0.5	0.0	90.7	93.3
United States	1131	0.0	76.5	8.0	6.0	8.6	76.5	0.9	0.0	76.7	76.4
Yemen	824	0.0	39.6	9.2	26.9	18.2	39.6	5.0	1.0	41.5	38.2
International Avg.	636	1.3	76.2	6.4	6.8	7.4	76.2	1.7	0.2	77.0	75.5
Alberta, Canada	590	0.0	72.7	10.5	6.1	9.3	72.7	1.3	0.0	74.7	71.0
British Columbia, Canada	601	0.0	76.8	9.2	4.8	8.3	76.8	0.9	0.0	75.5	78.1
Dubai, UAE	433	0.0	67.4	9.0	13.9	8.6	67.4	1.1	0.0	67.0	67.6
Massachusetts, US	254	0.0	82.0	8.8	2.6	6.0	82.0	0.6	0.0	78.3	85.3
Minnesota, US	268	0.0	72.6	11.6	5.2	10.6	72.6	0.0	0.0	70.5	75.0
Ontario, Canada	507	0.0	71.2	10.7	6.9	10.8	71.2	0.1	0.3	69.6	72.9
Quebec, Canada	557	0.0	80.3	6.2	4.3	7.6	80.3	1.5	0.0	83.6	76.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041223 - S08\_02)  
 Label: Function of part X of a plant  
 Type: MC Key: C

COUNTRY	N	S	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	577	0.0	41.8	19.1	14.0	41.8	21.3	3.7	0.1	43.5	40.0
Armenia	590	0.0	64.3	4.6	5.6	64.3	12.2	12.9	0.4	66.9	62.2
Australia	579	0.0	63.0	13.0	4.6	63.0	18.0	1.1	0.3	60.4	65.5
Austria	688	0.0	64.9	11.7	3.7	64.9	15.2	4.5	0.0	63.8	66.1
Chinese Taipei	590	0.0	72.8	10.2	8.2	72.8	7.9	0.9	0.0	71.9	73.6
Colombia	688	0.0	46.4	22.9	7.8	46.4	20.0	2.7	0.2	44.8	48.4
Czech Republic	611	0.0	57.6	11.9	8.3	57.6	16.0	6.1	0.1	58.4	57.0
Denmark	505	0.0	76.1	6.2	4.4	76.1	10.8	2.2	0.4	75.2	77.1
El Salvador	596	0.0	56.5	12.4	7.2	56.5	21.1	2.6	0.2	57.9	55.1
England	623	0.0	66.6	10.3	11.6	66.6	10.3	1.1	0.0	66.2	67.0
Georgia	570	0.0	53.3	6.4	5.4	53.3	30.0	4.8	0.1	60.5	48.1
Germany	748	0.0	71.0	7.9	4.0	71.0	13.1	4.0	0.0	69.5	72.2
Hong Kong SAR	543	0.0	57.8	17.0	11.1	57.8	13.4	0.7	0.0	57.0	58.5
Hungary	574	0.0	75.1	7.2	8.2	75.1	7.3	1.9	0.3	78.4	71.6
Iran, Islamic Rep. of	542	0.0	34.4	28.9	15.6	34.4	17.7	3.2	0.2	38.0	30.9
Italy	635	0.0	62.0	14.3	7.7	62.0	13.6	2.2	0.2	59.3	64.3
Japan	632	0.0	71.6	17.5	5.1	71.6	5.7	0.2	0.0	73.7	69.5
Kazakhstan	567	0.0	77.9	9.3	6.5	77.9	6.2	0.0	0.0	76.8	79.1
Kuwait	534	0.0	32.0	22.4	15.1	32.0	23.0	6.4	1.1	29.6	34.4
Latvia	563	0.0	78.3	7.3	3.5	78.3	8.7	2.2	0.0	79.9	76.7
Lithuania	561	48.4	34.9	6.7	3.2	34.9	5.1	1.7	0.0	41.5	29.1
Morocco	549	0.0	47.6	9.8	13.4	47.6	23.2	5.9	0.0	49.0	45.6
Netherlands	481	0.0	66.9	13.0	8.3	66.9	9.8	2.0	0.0	69.5	64.4
New Zealand	711	0.0	59.1	12.4	6.8	59.1	19.4	2.3	0.0	60.5	57.7
Norway	570	0.0	69.5	6.8	7.0	69.5	13.7	2.5	0.6	66.5	72.6
Qatar	994	0.0	35.6	25.2	16.2	35.6	18.3	4.2	0.5	36.3	35.0
Russian Federation	638	0.0	76.0	7.3	6.0	76.0	8.5	2.2	0.0	79.5	72.0
Scotland	562	0.0	52.8	13.3	9.9	52.8	22.6	1.4	0.0	55.8	49.4
Singapore	723	0.0	74.2	15.5	5.8	74.2	4.5	0.0	0.0	74.4	73.9
Slovak Republic	715	0.0	62.7	19.5	6.2	62.7	8.3	3.2	0.0	63.1	62.3
Slovenia	619	0.0	67.3	13.7	8.4	67.3	8.0	2.6	0.0	69.2	65.6
Sweden	659	0.0	60.1	9.8	10.4	60.1	18.1	1.6	0.0	59.8	60.3
Tunisia	591	0.0	42.7	13.8	11.8	42.7	17.9	13.3	0.5	47.1	38.4
Ukraine	610	0.0	67.6	13.3	4.2	67.6	10.7	4.2	0.0	70.2	65.3
United States	1131	0.0	66.0	13.1	9.1	66.0	11.2	0.5	0.0	67.1	65.0
Yemen	824	0.0	38.4	12.2	15.7	38.4	27.5	5.2	1.0	38.4	38.4
International Avg.	636	1.3	59.6	12.9	8.3	59.6	14.4	3.2	0.2	60.5	58.7
Alberta, Canada	590	0.0	71.1	14.1	3.8	71.1	10.1	0.8	0.1	70.9	71.2
British Columbia, Canada	601	0.0	67.0	10.9	7.2	67.0	12.3	2.6	0.0	70.4	63.7
Dubai, UAE	433	0.0	56.4	16.7	10.0	56.4	15.4	1.5	0.0	60.4	52.7
Massachusetts, US	254	0.0	64.3	14.2	9.9	64.3	10.9	0.6	0.0	64.1	64.5
Minnesota, US	268	0.0	66.9	13.3	10.4	66.9	9.1	0.4	0.0	67.3	66.4
Ontario, Canada	507	0.0	68.7	12.2	6.9	68.7	11.1	0.8	0.3	68.3	69.1
Quebec, Canada	557	0.0	58.4	14.1	7.7	58.4	17.8	1.9	0.0	54.4	63.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041026 - S08\_03)  
 Label: Body covering protects a reptile  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	572	21.9	9.3	54.9	9.5	21.9	4.2	0.2	22.9	20.8
Armenia	596	34.1	1.8	46.5	9.4	34.1	7.4	0.8	32.5	35.5
Australia	577	77.9	2.5	10.5	7.8	77.9	1.0	0.3	74.7	81.0
Austria	688	56.1	3.6	21.0	16.6	56.1	2.7	0.0	53.1	59.2
Chinese Taipei	590	31.2	3.8	29.9	34.1	31.2	1.0	0.0	28.2	34.0
Colombia	688	39.5	16.1	28.1	14.1	39.5	2.0	0.2	38.8	40.3
Czech Republic	611	36.3	0.9	48.2	13.3	36.3	1.1	0.1	32.5	38.9
Denmark	504	68.4	3.5	13.0	14.1	68.4	0.7	0.4	66.1	70.8
El Salvador	596	39.0	20.0	23.6	15.8	39.0	1.4	0.2	33.4	44.3
England	623	77.0	2.5	11.8	7.7	77.0	1.0	0.0	76.1	77.9
Georgia	571	37.3	2.7	44.6	14.6	37.3	0.5	0.1	37.2	37.5
Germany	748	61.1	2.8	17.2	16.6	61.1	2.2	0.0	54.1	67.2
Hong Kong SAR	543	30.8	7.7	35.6	25.3	30.8	0.6	0.0	25.3	35.5
Hungary	574	60.2	5.2	26.6	5.0	60.2	2.7	0.3	60.3	60.0
Iran, Islamic Rep. of	542	39.1	11.8	40.8	6.4	39.1	1.7	0.2	38.5	39.8
Italy	632	59.6	9.1	24.5	5.4	59.6	1.2	0.2	54.6	64.1
Japan	632	18.8	25.4	42.8	12.3	18.8	0.8	0.0	17.9	19.7
Kazakhstan	567	57.0	1.0	31.5	10.3	57.0	0.2	0.0	55.8	58.5
Kuwait	534	66.1	5.5	17.8	7.0	66.1	2.4	1.2	74.3	57.8
Latvia	563	28.1	2.8	50.8	15.5	28.1	2.8	0.0	25.1	31.3
Lithuania	561	32.3	2.0	54.3	8.9	32.3	2.4	0.0	30.7	33.6
Morocco	548	29.7	12.2	41.2	12.3	29.7	4.6	0.0	31.2	27.8
Netherlands	481	65.4	3.1	24.4	4.6	65.4	2.5	0.0	64.0	66.8
New Zealand	711	69.3	4.9	16.1	7.6	69.3	2.2	0.0	69.6	69.1
Norway	570	59.0	7.9	16.4	14.1	59.0	2.0	0.6	56.2	62.1
Qatar	994	25.4	18.7	36.8	14.9	25.4	3.7	0.5	26.3	24.5
Russian Federation	638	44.0	1.5	32.3	20.8	44.0	1.4	0.0	45.0	42.8
Scotland	562	76.2	2.7	10.1	9.5	76.2	1.5	0.0	76.7	75.7
Singapore	723	76.4	2.1	15.2	6.0	76.4	0.2	0.0	76.1	76.7
Slovak Republic	715	39.4	5.5	52.8	1.2	39.4	1.2	0.0	37.7	41.1
Slovenia	619	50.8	11.9	35.6	0.5	50.8	1.2	0.0	50.4	51.2
Sweden	657	35.4	3.5	37.2	22.6	35.4	1.3	0.0	33.6	37.4
Tunisia	591	21.3	6.6	41.5	19.5	21.3	10.6	0.5	18.3	24.2
Ukraine	610	42.5	2.1	37.8	15.6	42.5	1.7	0.2	39.3	45.4
United States	1131	83.3	2.2	10.3	3.8	83.3	0.5	0.0	82.9	83.6
Yemen	824	23.6	15.0	39.6	16.8	23.6	3.8	1.2	26.7	21.1
International Avg.	636	47.6	6.7	31.1	12.2	47.6	2.2	0.2	46.3	48.8
Alberta, Canada	590	85.1	1.1	8.5	4.5	85.1	0.7	0.1	83.9	86.0
British Columbia, Canada	601	79.3	3.1	11.5	4.6	79.3	1.4	0.0	78.6	80.0
Dubai, UAE	433	52.5	8.7	25.8	10.6	52.5	2.3	0.0	55.5	50.0
Massachusetts, US	254	90.3	0.4	5.7	3.0	90.3	0.6	0.0	88.3	92.0
Minnesota, US	268	79.0	0.8	14.4	5.8	79.0	0.0	0.0	78.1	80.0
Ontario, Canada	507	82.7	0.2	11.3	4.7	82.7	0.7	0.4	79.3	86.3
Quebec, Canada	557	83.8	1.8	6.3	7.3	83.8	0.8	0.0	86.2	81.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041177 - S08\_04)  
 Label: Living things make their own food  
 Type: CR Key: -

COUNTRY	N	20	10	11	70	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	605	3.7	18.3	22.4	26.1	24.0	4.8	0.6	44.4	3.7	3.3	4.1
Armenia	593	17.7	13.6	7.9	15.7	35.9	8.1	1.1	39.2	17.7	14.0	20.7
Australia	579	13.5	22.5	12.7	5.9	42.6	2.5	0.3	48.7	13.5	11.1	15.7
Austria	688	9.9	18.5	15.1	8.4	43.8	4.3	0.0	43.5	9.9	9.7	10.0
Chinese Taipei	590	21.2	25.2	10.4	6.9	35.4	0.9	0.0	56.8	21.2	20.7	21.7
Colombia	688	4.1	10.8	12.1	32.0	38.1	2.5	0.5	26.9	4.1	3.0	5.4
Czech Republic	611	11.3	19.2	11.5	6.0	48.8	3.1	0.1	41.9	11.3	12.6	10.4
Denmark	505	10.4	16.7	15.9	13.9	38.5	4.2	0.4	43.1	10.4	13.6	7.1
El Salvador	596	2.5	5.7	9.3	37.1	41.1	4.1	0.2	17.5	2.5	1.7	3.2
England	623	21.2	20.4	14.8	7.1	34.8	1.7	0.0	56.4	21.2	22.3	20.2
Georgia	571	4.4	6.1	5.7	19.6	49.6	14.4	0.1	16.2	4.4	5.5	3.6
Germany	748	7.2	15.2	14.4	11.1	47.4	4.7	0.0	36.8	7.2	6.1	8.1
Hong Kong SAR	543	22.5	26.2	20.5	5.5	25.0	0.2	0.0	69.2	22.5	20.6	24.2
Hungary	574	10.2	13.2	10.9	4.0	57.5	3.8	0.3	34.3	10.2	8.9	11.5
Iran, Islamic Rep. of	542	1.6	7.7	13.7	45.9	28.1	2.8	0.2	23.0	1.6	1.0	2.1
Italy	635	26.5	18.8	12.2	9.2	29.3	3.6	0.4	57.5	26.5	23.9	28.7
Japan	632	13.7	25.3	15.3	6.2	39.3	0.3	0.0	54.2	13.7	13.8	13.5
Kazakhstan	567	6.4	45.6	9.6	9.6	27.4	1.4	0.0	61.6	6.4	5.5	7.4
Kuwait	534	4.2	9.8	7.3	23.6	48.5	5.6	1.2	21.3	4.2	4.2	4.2
Latvia	563	15.3	19.4	12.4	8.1	42.5	2.3	0.0	47.0	15.3	14.6	16.0
Lithuania	561	8.3	18.6	15.0	20.8	36.4	0.9	0.0	41.9	8.3	9.0	7.6
Morocco	566	0.9	10.4	19.3	30.3	30.7	8.4	0.0	30.6	0.9	0.7	1.1
Netherlands	481	9.0	22.0	14.7	4.3	48.2	1.8	0.0	45.7	9.0	9.3	8.7
New Zealand	711	15.7	17.4	9.6	8.4	47.4	1.0	0.6	42.7	15.7	15.1	16.4
Norway	570	6.6	13.3	11.3	12.6	51.2	4.3	0.7	31.2	6.6	7.5	5.6
Qatar	994	2.9	9.1	5.9	24.0	53.2	4.3	0.5	18.0	2.9	2.4	3.4
Russian Federation	638	8.7	33.6	19.3	7.8	29.5	1.2	0.0	61.5	8.7	6.8	10.8
Scotland	562	11.2	18.7	14.1	8.3	44.8	2.8	0.0	44.0	11.2	10.7	11.8
Singapore	723	53.6	21.8	9.9	5.2	9.4	0.1	0.0	85.2	53.6	53.4	53.8
Slovak Republic	715	9.5	20.6	12.2	11.6	41.2	4.9	0.0	42.3	9.5	7.9	11.2
Slovenia	619	13.9	21.0	9.3	10.7	42.5	2.5	0.0	44.3	13.9	16.1	11.9
Sweden	659	6.6	11.0	11.5	9.9	58.3	2.6	0.0	29.2	6.6	6.5	6.8
Tunisia	591	2.5	7.6	13.0	10.1	62.2	4.2	0.5	23.0	2.5	2.2	2.8
Ukraine	610	9.2	12.3	15.8	27.4	31.8	3.2	0.2	37.4	9.2	8.6	9.8
United States	1131	38.5	22.6	10.5	5.1	22.5	0.7	0.0	71.7	38.5	39.2	37.9
Yemen	824	1.6	11.8	8.2	18.1	50.1	9.1	1.2	21.6	1.6	2.2	1.1
International Avg.	637	11.8	17.5	12.6	14.4	39.9	3.5	0.3	41.9	11.8	11.5	12.2
Alberta, Canada	590	27.8	22.2	13.1	5.5	30.6	0.7	0.1	63.0	27.8	29.3	26.4
British Columbia, Canada	601	29.0	23.9	12.8	6.3	25.7	2.2	0.1	65.7	29.0	28.5	29.4
Dubai, UAE	433	19.1	27.7	13.8	15.2	22.1	2.1	0.0	60.6	19.1	22.9	15.7
Massachusetts, US	254	40.5	22.0	11.4	4.2	21.5	0.5	0.0	73.8	40.5	40.9	40.2
Minnesota, US	268	33.0	24.3	10.1	8.7	23.8	0.1	0.0	67.5	33.0	33.7	32.3
Ontario, Canada	507	27.6	21.9	13.7	4.9	31.1	0.4	0.4	63.2	27.6	26.6	28.5
Quebec, Canada	557	17.7	19.7	15.3	3.9	41.5	1.8	0.0	52.8	17.7	19.4	15.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041183 - S08\_05)  
 Label: Maintaining good physical health  
 Type: CR Key: -

COUNTRY	N	20	29	10	19	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	.	.	.	.	.	.	.	.	.	.	.	.
Armenia	595	5.6	9.9	19.4	8.6	17.5	37.9	1.1	43.5	15.5	14.5	16.3
Australia	579	17.5	1.5	51.0	10.1	11.4	8.3	0.3	80.1	19.0	18.2	19.8
Austria	688	14.8	2.9	59.0	7.2	8.0	8.2	0.0	83.8	17.6	21.2	14.0
Chinese Taipei	590	28.7	2.1	48.7	6.1	8.1	6.3	0.0	85.6	30.8	31.7	30.0
Colombia	688	7.9	1.5	39.8	1.5	34.4	14.3	0.6	50.7	9.4	7.9	11.3
Czech Republic	611	19.3	0.8	29.6	2.4	23.5	24.3	0.1	52.1	20.1	22.2	18.7
Denmark	505	14.1	0.0	68.3	1.6	7.4	8.3	0.4	84.0	14.1	17.5	10.5
El Salvador	596	7.1	1.0	32.4	8.2	27.0	23.9	0.4	48.8	8.1	8.9	7.5
England	623	20.5	2.4	44.0	1.3	20.8	11.0	0.0	68.2	22.9	30.2	16.1
Georgia	571	12.7	1.3	15.6	8.5	32.4	29.2	0.2	38.1	14.0	15.2	13.1
Germany	748	16.6	5.7	48.7	11.4	9.7	7.9	0.0	82.4	22.3	21.0	23.4
Hong Kong SAR	543	26.5	7.9	43.6	9.4	7.6	5.0	0.0	87.4	34.3	39.5	29.9
Hungary	574	29.8	5.7	36.9	2.8	11.8	12.6	0.3	75.3	35.5	41.6	29.1
Iran, Islamic Rep. of	542	7.0	5.0	39.1	15.6	15.4	17.7	0.2	66.7	12.0	10.1	13.8
Italy	635	15.5	0.4	60.3	6.9	5.7	10.7	0.5	83.1	16.0	16.9	15.1
Japan	632	7.0	4.7	59.1	16.5	8.6	4.1	0.0	87.2	11.7	11.8	11.6
Kazakhstan	567	4.5	0.4	71.7	13.7	7.0	2.8	0.0	90.2	4.8	4.7	5.1
Kuwait	534	9.5	0.3	19.9	2.5	12.7	53.6	1.4	32.3	9.8	12.4	7.2
Latvia	563	27.2	0.6	57.3	2.6	8.0	4.3	0.0	87.7	27.8	32.9	22.4
Lithuania	561	18.7	2.3	61.1	1.7	7.8	8.5	0.0	83.7	21.0	26.7	15.9
Morocco	566	3.7	0.5	20.0	3.4	19.2	52.8	0.2	27.7	4.3	5.3	3.2
Netherlands	481	28.8	2.0	60.4	2.2	3.9	2.8	0.0	93.3	30.8	35.9	25.9
New Zealand	711	15.9	2.3	48.9	8.3	14.9	9.3	0.6	75.3	18.1	22.1	14.4
Norway	570	7.4	1.5	60.1	7.6	13.7	8.8	0.9	76.6	8.9	10.7	6.9
Qatar	994	1.3	0.5	15.7	1.4	31.0	49.5	0.6	19.0	1.8	2.6	1.0
Russian Federation	638	12.0	0.4	71.4	6.8	5.8	3.5	0.0	90.6	12.4	13.0	11.8
Scotland	562	9.1	3.7	50.5	2.3	18.4	16.0	0.0	65.6	12.8	13.0	12.5
Singapore	723	34.5	2.0	48.5	0.8	11.8	2.5	0.0	85.7	36.4	39.1	34.0
Slovak Republic	715	19.9	6.2	44.3	8.8	7.4	13.4	0.0	79.2	26.1	30.5	21.5
Slovenia	619	17.4	1.6	52.6	3.5	11.2	13.6	0.0	75.2	19.0	20.2	17.9
Sweden	659	6.0	1.6	48.1	10.0	22.5	11.2	0.7	65.7	7.6	7.5	7.7
Tunisia	591	13.0	2.5	17.7	5.9	31.2	29.0	0.8	39.1	15.5	16.8	14.3
Ukraine	610	16.8	0.8	49.6	2.5	10.0	20.1	0.2	69.7	17.6	19.8	15.7
United States	1131	34.0	4.1	36.8	5.9	13.4	5.8	0.0	80.9	38.1	40.0	36.2
Yemen	824	0.9	0.0	4.9	5.0	30.8	56.2	2.2	10.8	1.0	1.6	0.5
International Avg.	638	15.2	2.5	43.9	6.1	15.1	17.0	0.3	67.6	17.6	19.5	15.8
Alberta, Canada	590	18.5	3.6	58.8	3.4	9.2	6.4	0.1	84.3	22.1	23.9	20.5
British Columbia, Canada	601	23.9	1.8	51.8	3.3	9.7	9.4	0.1	80.8	25.7	30.0	21.5
Dubai, UAE	433	17.1	1.8	38.2	4.6	16.7	21.5	0.1	61.7	18.9	24.5	13.6
Massachusetts, US	254	43.4	7.3	32.8	3.9	8.0	4.6	0.0	87.3	50.6	49.1	52.0
Minnesota, US	268	31.4	5.0	45.0	3.2	13.2	2.2	0.0	84.6	36.4	36.7	36.2
Ontario, Canada	507	28.7	2.3	48.5	3.8	8.4	8.1	0.4	83.2	30.9	34.9	26.8
Quebec, Canada	557	20.9	1.2	65.3	5.4	3.3	3.8	0.0	92.8	22.1	19.6	24.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041008 - S08\_06)  
 Label: Which animal is a mammal  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	552	22.6	22.6	23.4	35.3	11.5	6.5	0.7	23.0	22.2
Armenia	594	41.5	41.5	5.1	36.6	6.8	8.6	1.5	37.7	44.5
Australia	576	54.5	54.5	7.5	25.2	10.1	2.4	0.3	50.6	58.2
Austria	688	49.5	49.5	12.9	20.0	13.1	4.5	0.0	48.9	50.1
Chinese Taipei	590	48.6	48.6	10.8	31.6	8.1	1.0	0.0	42.7	54.2
Colombia	688	30.6	30.6	9.0	39.6	17.4	2.2	1.2	26.4	35.8
Czech Republic	611	64.0	64.0	3.3	12.5	10.2	9.8	0.1	63.9	64.1
Denmark	500	53.9	53.9	9.3	23.0	11.2	2.2	0.4	53.4	54.5
El Salvador	596	27.5	27.5	10.6	40.9	18.9	1.5	0.7	23.3	31.3
England	623	46.2	46.2	7.6	32.8	12.2	1.2	0.0	43.2	49.0
Georgia	571	33.4	33.4	1.7	50.2	12.6	2.0	0.2	25.9	38.7
Germany	748	48.4	48.4	11.7	24.3	12.1	3.4	0.0	50.2	46.9
Hong Kong SAR	543	47.3	47.3	9.6	35.6	6.7	0.7	0.0	40.5	53.1
Hungary	574	69.4	69.4	5.4	10.9	10.4	3.6	0.3	71.7	66.9
Iran, Islamic Rep. of	542	25.6	25.6	29.2	29.1	10.7	4.9	0.5	19.4	31.6
Italy	624	61.8	61.8	8.5	19.3	7.1	2.8	0.5	55.2	67.5
Japan	632	50.3	50.3	12.7	21.8	10.1	5.0	0.0	50.2	50.5
Kazakhstan	567	56.9	56.9	9.3	19.7	14.2	0.0	0.0	54.9	59.1
Kuwait	534	37.1	37.1	20.5	25.1	11.3	4.2	1.8	35.5	38.8
Latvia	563	53.6	53.6	12.9	19.5	11.5	2.4	0.0	58.7	48.1
Lithuania	561	50.6	50.6	10.4	24.7	11.9	2.4	0.0	56.7	45.2
Morocco	531	18.2	18.2	26.9	30.3	16.7	6.7	1.3	17.3	19.0
Netherlands	481	38.7	38.7	9.5	32.9	17.6	1.3	0.0	38.2	39.1
New Zealand	711	48.8	48.8	7.2	27.4	15.5	0.4	0.7	49.2	48.5
Norway	570	47.2	47.2	19.1	17.4	12.7	2.6	1.1	55.0	38.8
Qatar	994	25.8	25.8	24.3	26.4	17.9	5.1	0.6	25.9	25.6
Russian Federation	637	46.2	46.2	16.4	11.1	23.4	2.9	0.0	46.9	45.3
Scotland	562	51.2	51.2	8.8	25.2	13.5	1.1	0.1	53.4	48.6
Singapore	723	69.0	69.0	5.9	21.9	3.3	0.0	0.0	67.1	70.8
Slovak Republic	715	69.9	69.9	4.4	11.5	12.7	1.5	0.0	74.2	65.5
Slovenia	619	46.1	46.1	6.7	24.0	21.1	2.1	0.0	42.9	49.1
Sweden	649	36.4	36.4	16.4	28.3	16.5	1.8	0.7	38.0	34.7
Tunisia	591	26.4	26.4	17.9	23.1	14.7	16.2	1.7	24.4	28.4
Ukraine	610	51.0	51.0	11.1	19.6	16.9	1.2	0.2	56.7	46.0
United States	1131	64.9	64.9	8.1	19.4	6.9	0.7	0.0	64.4	65.5
Yemen	824	20.6	20.6	27.5	30.6	13.2	5.6	2.5	19.9	21.2
International Avg.	634	45.4	45.4	12.3	25.7	12.8	3.3	0.5	44.6	46.0
Alberta, Canada	590	67.4	67.4	7.4	15.6	8.3	1.1	0.1	68.1	66.8
British Columbia, Canada	601	58.4	58.4	7.3	22.2	10.8	1.2	0.1	57.1	59.7
Dubai, UAE	433	38.0	38.0	20.0	31.2	8.2	2.6	0.1	40.5	35.8
Massachusetts, US	254	67.2	67.2	5.5	20.7	6.2	0.4	0.0	68.3	66.2
Minnesota, US	268	58.8	58.8	9.9	21.0	9.9	0.4	0.0	57.3	60.5
Ontario, Canada	507	54.4	54.4	7.7	23.1	12.2	2.2	0.4	51.3	57.5
Quebec, Canada	557	52.7	52.7	6.1	24.8	12.7	3.5	0.0	49.3	56.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041195 - S08\_08)  
 Label: Bulb lights in which circuit  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	6.2	25.2	15.1	29.3	16.6	6.6	0.9	6.2	6.3	6.1
Armenia	596	20.5	32.2	11.3	24.4	2.7	6.9	2.0	20.5	18.1	22.5
Australia	579	30.0	13.7	31.5	21.2	0.8	2.6	0.4	30.0	21.2	38.3
Austria	688	29.3	30.3	26.0	10.6	0.9	2.9	0.0	29.3	30.3	28.3
Chinese Taipei	590	54.5	21.0	9.9	12.8	1.6	0.3	0.0	54.5	50.8	58.0
Colombia	688	9.5	21.0	22.7	39.7	1.9	3.7	1.6	9.5	7.2	12.3
Czech Republic	611	23.4	28.4	31.0	12.3	1.2	3.6	0.1	23.4	19.5	26.0
Denmark	505	34.1	16.8	31.2	11.8	2.6	1.7	1.7	34.1	31.5	36.8
El Salvador	596	5.7	26.3	21.5	37.0	4.4	3.9	1.3	5.7	4.1	7.2
England	623	29.9	24.6	28.9	14.7	1.0	0.9	0.0	29.9	29.7	30.0
Georgia	571	8.4	31.4	13.3	25.8	8.1	12.7	0.2	8.4	9.0	8.0
Germany	748	28.8	29.7	31.2	7.1	0.7	2.1	0.4	28.8	27.0	30.4
Hong Kong SAR	543	25.5	27.1	39.0	6.2	1.2	1.0	0.0	25.5	21.0	29.4
Hungary	574	14.8	31.7	28.5	18.7	2.4	3.6	0.3	14.8	11.6	18.2
Iran, Islamic Rep. of	542	16.8	26.0	13.5	28.6	10.9	3.5	0.7	16.8	19.3	14.4
Italy	635	13.6	29.6	26.4	19.5	1.4	8.7	0.8	13.6	13.6	13.7
Japan	632	50.6	33.4	9.0	6.4	0.5	0.1	0.0	50.6	53.9	47.4
Kazakhstan	567	24.6	50.2	18.0	6.1	0.4	0.7	0.0	24.6	25.6	23.5
Kuwait	534	4.8	27.8	23.4	30.7	6.9	4.6	1.9	4.8	4.7	4.9
Latvia	563	36.6	23.9	27.2	10.6	1.5	0.3	0.0	36.6	31.5	42.0
Lithuania	561	27.5	26.3	27.7	15.6	0.4	2.5	0.0	27.5	30.1	25.2
Morocco	558	2.1	38.6	13.9	26.9	12.7	3.9	1.9	2.1	0.9	3.1
Netherlands	481	23.0	24.1	42.9	8.4	0.3	1.3	0.0	23.0	23.3	22.7
New Zealand	711	22.9	26.3	30.8	17.3	1.3	0.6	0.9	22.9	21.5	24.1
Norway	570	19.8	19.8	37.1	18.6	1.8	1.7	1.2	19.8	21.3	18.3
Qatar	994	2.8	39.6	28.3	24.5	1.3	2.5	0.9	2.8	3.5	2.0
Russian Federation	638	28.4	33.0	26.3	9.8	0.1	2.4	0.0	28.4	26.8	30.1
Scotland	562	15.7	26.4	36.2	18.6	1.3	1.7	0.1	15.7	12.7	19.1
Singapore	723	32.2	28.5	27.1	10.4	1.6	0.2	0.0	32.2	30.7	33.5
Slovak Republic	716	27.9	23.5	27.2	12.0	5.2	3.7	0.4	27.9	25.8	30.1
Slovenia	619	26.9	23.2	31.1	15.5	1.7	1.7	0.0	26.9	26.0	27.8
Sweden	659	22.2	25.7	30.0	18.2	1.1	2.2	0.7	22.2	23.6	20.7
Tunisia	.	.	.	.	.	.	.	.	.	.	.
Ukraine	610	13.2	43.9	25.1	12.3	2.0	3.2	0.3	13.2	12.7	13.6
United States	1131	29.7	25.0	32.7	11.7	0.3	0.6	0.0	29.7	28.6	30.8
Yemen	824	0.9	30.5	13.1	33.9	12.4	5.9	3.3	0.9	0.9	0.8
International Avg.	638	21.8	28.1	25.4	17.9	3.2	3.0	0.6	21.8	20.7	22.8
Alberta, Canada	590	32.4	18.1	33.9	12.4	1.8	1.3	0.1	32.4	30.3	34.2
British Columbia, Canada	601	23.4	18.5	43.0	10.9	1.8	1.9	0.5	23.4	21.7	25.0
Dubai, UAE	433	16.3	30.2	28.8	18.0	2.7	3.5	0.5	16.3	18.9	14.1
Massachusetts, US	254	38.6	20.1	28.6	12.3	0.0	0.4	0.0	38.6	35.0	41.9
Minnesota, US	268	36.4	25.0	28.6	9.8	0.1	0.0	0.0	36.4	39.2	33.6
Ontario, Canada	507	21.6	15.3	43.0	16.1	2.2	1.4	0.4	21.6	20.0	23.3
Quebec, Canada	557	25.5	15.1	36.0	18.5	2.5	2.4	0.0	25.5	25.0	26.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Reasoning (S041134A - S08\_09A)  
 Label: 1 or 2 dissolves the candy fastest  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	605	13.7	77.4	7.6	1.3	13.7	14.9	12.5
Armenia	596	53.8	28.4	15.2	2.6	53.8	54.2	53.5
Australia	579	66.2	30.8	2.3	0.8	66.2	72.1	60.6
Austria	688	20.5	74.1	5.4	0.0	20.5	20.1	20.9
Chinese Taipei	590	77.8	21.8	0.4	0.0	77.8	81.4	74.2
Colombia	688	13.5	78.2	5.7	2.6	13.5	15.0	11.7
Czech Republic	611	50.9	44.5	4.5	0.1	50.9	55.6	47.6
Denmark	504	62.0	34.0	1.7	2.3	62.0	67.0	56.7
El Salvador	596	10.8	79.1	8.6	1.4	10.8	9.3	12.3
England	623	22.4	75.4	2.2	0.0	22.4	27.4	17.7
Georgia	571	5.4	76.3	16.7	1.6	5.4	6.5	4.6
Germany	748	27.7	68.6	3.3	0.4	27.7	28.2	27.4
Hong Kong SAR	543	65.7	33.5	0.8	0.0	65.7	69.7	62.3
Hungary	574	53.2	43.6	2.8	0.3	53.2	58.4	47.8
Iran, Islamic Rep. of	542	35.7	57.0	6.5	0.7	35.7	42.5	29.3
Italy	635	48.2	45.1	5.6	1.2	48.2	51.5	45.3
Japan	632	38.9	60.8	0.4	0.0	38.9	41.3	36.4
Kazakhstan	567	42.1	52.8	5.1	0.0	42.1	39.3	45.2
Kuwait	534	9.7	79.3	8.5	2.4	9.7	14.0	5.4
Latvia	563	59.9	37.8	2.3	0.0	59.9	58.7	61.1
Lithuania	561	64.6	34.8	0.6	0.0	64.6	73.3	56.8
Morocco	558	11.8	78.0	7.9	2.3	11.8	13.3	10.0
Netherlands	481	54.6	44.1	1.3	0.0	54.6	59.2	50.2
New Zealand	711	20.5	76.5	2.1	0.9	20.5	21.4	19.7
Norway	570	15.2	79.8	3.6	1.3	15.2	16.0	14.4
Qatar	994	5.5	88.0	5.5	1.0	5.5	6.6	4.3
Russian Federation	638	58.7	38.1	3.2	0.0	58.7	62.7	54.1
Scotland	562	10.6	85.6	3.7	0.1	10.6	9.1	12.4
Singapore	723	29.4	70.0	0.7	0.0	29.4	30.6	28.2
Slovak Republic	716	52.6	41.4	5.5	0.5	52.6	57.4	47.7
Slovenia	619	59.8	37.5	2.8	0.0	59.8	63.4	56.4
Sweden	659	18.3	78.2	2.9	0.7	18.3	17.2	19.6
Tunisia	591	15.2	71.8	9.9	3.1	15.2	19.2	11.4
Ukraine	610	40.0	53.7	5.9	0.4	40.0	46.0	34.7
United States	1131	60.3	39.0	0.6	0.1	60.3	61.9	58.8
Yemen	823	0.5	86.0	9.5	4.0	0.5	0.5	0.6
International Avg.	637	36.0	58.4	4.8	0.9	36.0	38.5	33.7
Alberta, Canada	590	71.2	28.0	0.7	0.1	71.2	75.3	67.7
British Columbia, Canada	601	67.5	28.8	3.1	0.6	67.5	71.2	64.0
Dubai, UAE	433	30.9	64.8	3.6	0.7	30.9	35.7	26.6
Massachusetts, US	254	75.1	24.3	0.6	0.0	75.1	80.2	70.6
Minnesota, US	268	65.8	34.2	0.0	0.0	65.8	71.3	60.0
Ontario, Canada	507	67.2	31.3	1.0	0.4	67.2	66.8	67.7
Quebec, Canada	557	57.9	38.5	3.6	0.0	57.9	60.6	54.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041134B - S08\_09B)  
 Label: 1 or 3 dissolves the candy fastest  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	604	18.2	26.5	45.2	8.4	1.8	18.2	19.2	17.2
Armenia	594	48.4	18.5	15.4	13.3	4.5	48.4	51.2	46.1
Australia	579	51.1	9.5	35.5	2.4	1.5	51.1	58.4	44.4
Austria	688	46.8	12.1	33.5	7.7	0.0	46.8	51.2	42.1
Chinese Taipei	590	83.4	5.9	10.3	0.4	0.0	83.4	84.9	81.8
Colombia	688	26.1	27.0	37.5	4.5	4.9	26.1	21.8	31.5
Czech Republic	611	47.2	15.5	32.6	4.4	0.4	47.2	52.1	43.8
Denmark	504	59.8	15.0	19.4	3.3	2.4	59.8	63.6	55.8
El Salvador	596	14.8	28.0	45.2	8.8	3.2	14.8	12.7	16.8
England	623	46.2	8.8	43.1	1.9	0.0	46.2	44.7	47.5
Georgia	571	16.9	19.5	42.5	19.0	2.1	16.9	21.5	13.5
Germany	748	65.9	10.1	20.0	3.4	0.6	65.9	69.6	62.7
Hong Kong SAR	543	76.0	5.7	17.2	1.1	0.0	76.0	81.0	71.8
Hungary	574	57.3	16.4	23.1	2.1	1.1	57.3	65.8	48.4
Iran, Islamic Rep. of	542	48.7	15.7	25.9	8.5	1.2	48.7	57.3	40.4
Italy	635	58.3	11.2	22.8	6.4	1.3	58.3	61.8	55.2
Japan	632	86.3	3.1	10.2	0.4	0.0	86.3	88.1	84.6
Kazakhstan	566	52.9	8.5	30.1	7.4	1.1	52.9	51.8	54.2
Kuwait	534	15.5	26.4	47.5	7.1	3.5	15.5	19.1	11.8
Latvia	563	71.0	7.1	18.9	2.2	0.7	71.0	73.5	68.2
Lithuania	561	68.8	13.2	16.3	1.6	0.2	68.8	74.2	64.0
Morocco	558	10.9	26.2	46.1	13.5	3.3	10.9	8.8	12.6
Netherlands	481	34.0	20.1	44.7	1.3	0.0	34.0	30.8	37.0
New Zealand	711	42.2	13.2	39.6	4.1	0.9	42.2	49.2	35.6
Norway	570	39.6	15.3	40.4	2.9	1.7	39.6	48.0	30.7
Qatar	994	7.8	39.1	46.9	4.7	1.5	7.8	8.9	6.6
Russian Federation	638	59.0	11.6	25.2	4.1	0.1	59.0	59.4	58.6
Scotland	562	41.8	12.4	42.5	3.2	0.1	41.8	45.9	37.0
Singapore	723	49.3	9.8	40.7	0.3	0.0	49.3	49.2	49.3
Slovak Republic	716	53.7	12.6	27.7	5.0	1.0	53.7	55.5	51.8
Slovenia	619	70.0	10.6	16.7	2.3	0.3	70.0	72.2	68.0
Sweden	.	.	.	.	.	.	.	.	.
Tunisia	590	23.3	19.8	44.5	7.5	5.0	23.3	30.7	16.0
Ukraine	610	44.6	12.3	35.1	6.6	1.4	44.6	49.0	40.8
United States	1131	48.1	9.1	41.9	0.8	0.1	48.1	50.2	46.1
Yemen	822	0.9	26.3	56.0	11.2	5.6	0.9	0.6	1.0
International Avg.	636	45.3	15.5	32.6	5.2	1.5	45.3	48.1	42.7
Alberta, Canada	590	67.1	8.8	22.7	1.3	0.1	67.1	72.5	62.5
British Columbia, Canada	601	67.4	7.4	21.1	3.4	0.6	67.4	71.0	63.9
Dubai, UAE	433	46.2	16.6	30.6	5.9	0.7	46.2	50.0	42.9
Massachusetts, US	254	52.2	6.5	40.7	0.6	0.0	52.2	50.0	54.2
Minnesota, US	268	51.7	12.6	35.0	0.8	0.0	51.7	50.9	52.5
Ontario, Canada	507	70.7	9.5	18.2	1.1	0.5	70.7	75.6	65.6
Quebec, Canada	557	63.0	11.9	21.2	3.6	0.3	63.0	66.3	59.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041134C - S08\_09C)  
 Label: Method gives the less sweet drink  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	25.7	11.0	19.8	33.4	25.7	6.5	3.6	27.2	24.2
Armenia	597	36.0	18.9	9.5	12.4	36.0	18.6	4.7	39.8	32.8
Australia	578	50.8	12.7	12.2	20.0	50.8	2.6	1.7	48.3	53.2
Austria	688	54.2	12.4	8.4	18.9	54.2	5.8	0.2	54.8	53.7
Chinese Taipei	590	66.6	9.1	8.0	15.4	66.6	0.9	0.0	69.0	64.3
Colombia	688	37.8	25.6	9.2	17.0	37.8	5.0	5.3	38.1	37.5
Czech Republic	611	43.4	12.4	16.1	23.8	43.4	3.5	0.8	44.8	42.4
Denmark	505	49.0	12.0	10.5	23.0	49.0	2.8	2.7	49.4	48.6
El Salvador	596	28.3	28.2	15.0	18.4	28.3	6.1	3.9	27.2	29.4
England	623	49.1	14.5	15.5	18.6	49.1	2.2	0.0	50.8	47.6
Georgia	571	30.4	17.9	17.0	18.9	30.4	12.7	3.1	28.1	32.1
Germany	748	54.9	9.8	9.0	22.4	54.9	3.1	0.7	58.3	51.9
Hong Kong SAR	543	58.4	9.7	12.8	18.0	58.4	1.0	0.0	60.0	57.1
Hungary	574	52.1	12.8	13.9	16.8	52.1	3.2	1.2	53.9	50.2
Iran, Islamic Rep. of	542	33.5	18.4	13.8	22.2	33.5	10.2	2.0	35.0	32.0
Italy	635	50.2	9.6	7.9	23.6	50.2	6.7	2.0	47.7	52.5
Japan	632	72.3	4.7	5.3	16.6	72.3	0.9	0.2	75.2	69.5
Kazakhstan	566	45.3	10.9	13.8	26.2	45.3	2.7	1.1	41.6	49.6
Kuwait	534	21.0	17.0	22.4	29.1	21.0	6.4	4.0	18.0	24.0
Latvia	563	59.0	17.5	6.9	13.9	59.0	2.0	0.7	60.1	57.8
Lithuania	561	61.4	7.8	9.5	18.9	61.4	1.7	0.7	62.3	60.6
Morocco	536	15.6	14.5	21.9	35.4	15.6	8.7	3.9	18.7	12.1
Netherlands	481	54.0	8.4	12.2	23.1	54.0	2.3	0.0	56.9	51.2
New Zealand	711	51.1	13.9	11.5	19.3	51.1	3.1	1.2	53.6	48.7
Norway	570	50.9	9.5	14.0	20.5	50.9	3.1	2.0	51.9	49.8
Qatar	994	17.0	20.8	29.1	26.2	17.0	5.2	1.7	19.2	14.6
Russian Federation	638	34.7	10.3	20.5	30.8	34.7	3.6	0.1	39.5	29.4
Scotland	562	43.0	16.8	15.3	21.0	43.0	3.7	0.1	46.1	39.6
Singapore	723	67.5	8.8	8.9	14.4	67.5	0.4	0.0	70.8	64.4
Slovak Republic	716	50.5	11.5	13.0	19.7	50.5	4.2	1.0	52.3	48.7
Slovenia	619	59.6	8.4	9.3	18.5	59.6	3.9	0.3	62.9	56.5
Sweden	658	56.4	12.1	9.3	17.5	56.4	3.1	1.5	56.3	56.4
Tunisia	591	23.4	10.4	16.6	31.7	23.4	12.2	5.6	24.9	21.9
Ukraine	610	36.9	19.4	14.2	24.2	36.9	3.9	1.6	42.3	32.1
United States	1131	48.9	13.4	10.4	25.9	48.9	1.0	0.3	50.0	47.9
Yemen	822	21.0	10.6	19.8	34.8	21.0	7.6	6.2	25.4	17.6
International Avg.	636	44.7	13.4	13.4	22.0	44.7	4.7	1.8	46.1	43.4
Alberta, Canada	590	47.9	15.2	8.7	26.4	47.9	1.6	0.3	50.6	45.5
British Columbia, Canada	601	52.5	13.4	9.2	21.5	52.5	2.6	0.8	57.5	47.6
Dubai, UAE	433	41.1	19.7	12.7	19.6	41.1	5.7	1.2	49.2	33.5
Massachusetts, US	254	55.7	4.9	9.1	29.0	55.7	1.3	0.0	62.7	49.5
Minnesota, US	268	54.1	12.1	6.0	25.4	54.1	1.6	0.8	55.5	52.6
Ontario, Canada	507	53.6	7.4	11.4	26.2	53.6	0.9	0.5	52.9	54.4
Quebec, Canada	557	53.7	8.2	9.1	25.2	53.7	3.5	0.4	53.6	53.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041191 - S08\_10)  
 Label: Materials and heat conduction  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	578	28.1	14.6	28.1	29.0	20.4	3.6	4.2	29.5	26.7
Armenia	596	29.6	35.2	29.6	15.0	7.1	7.8	5.3	32.4	27.4
Australia	578	44.4	29.1	44.4	12.3	11.2	1.1	1.8	42.3	46.4
Austria	688	44.3	31.5	44.3	6.4	16.5	1.2	0.2	38.2	50.7
Chinese Taipei	590	72.4	13.9	72.4	5.6	7.3	0.7	0.0	68.6	76.1
Colombia	688	23.4	27.6	23.4	18.0	21.6	3.4	6.1	21.9	25.1
Czech Republic	611	22.7	60.5	22.7	5.4	9.5	1.2	0.8	17.6	26.2
Denmark	504	42.2	31.0	42.2	13.7	9.2	1.0	2.9	40.2	44.3
El Salvador	596	27.4	24.9	27.4	19.1	22.2	1.4	5.0	24.4	30.3
England	623	53.2	20.4	53.2	12.2	13.2	0.7	0.2	49.0	57.2
Georgia	571	30.6	17.4	30.6	28.2	15.4	3.4	5.0	29.7	31.3
Germany	748	47.6	25.7	47.6	10.4	13.8	1.6	0.9	45.1	49.8
Hong Kong SAR	543	92.5	3.1	92.5	1.2	2.8	0.4	0.0	93.4	91.7
Hungary	574	48.2	18.6	48.2	21.2	8.6	2.2	1.2	46.1	50.3
Iran, Islamic Rep. of	542	27.8	13.2	27.8	33.1	21.1	1.9	2.8	29.4	26.4
Italy	635	45.7	33.8	45.7	6.6	8.2	3.3	2.4	45.1	46.3
Japan	632	79.9	13.2	79.9	1.9	4.3	0.4	0.2	79.7	80.2
Kazakhstan	566	57.0	16.8	57.0	16.8	7.0	0.1	2.3	60.4	53.1
Kuwait	534	24.7	28.9	24.7	25.7	11.8	4.5	4.4	23.4	26.1
Latvia	563	36.7	32.7	36.7	17.7	10.6	1.6	0.7	31.8	41.9
Lithuania	561	29.7	38.5	29.7	16.6	13.0	1.5	0.7	29.5	29.9
Morocco	549	34.3	17.5	34.3	22.8	17.2	4.0	4.1	30.1	39.1
Netherlands	481	35.7	32.0	35.7	15.4	16.3	0.5	0.2	34.3	37.0
New Zealand	711	40.9	26.7	40.9	12.0	17.5	1.7	1.2	39.9	41.9
Norway	570	36.8	36.2	36.8	14.7	9.3	0.7	2.4	36.0	37.7
Qatar	994	40.7	18.9	40.7	21.9	12.6	4.0	1.9	42.4	39.0
Russian Federation	638	59.1	19.1	59.1	12.2	8.2	0.8	0.6	57.8	60.5
Scotland	562	43.7	23.7	43.7	15.3	15.1	1.8	0.3	41.4	46.4
Singapore	723	91.6	2.6	91.6	2.7	3.1	0.0	0.0	90.9	92.3
Slovak Republic	716	44.4	36.7	44.4	8.9	7.9	0.9	1.2	37.9	51.2
Slovenia	619	49.7	26.2	49.7	9.8	12.2	1.7	0.5	48.6	50.7
Sweden	659	42.7	35.2	42.7	11.4	8.7	0.5	1.5	36.3	49.9
Tunisia	591	44.2	12.3	44.2	13.7	12.5	11.1	6.1	42.6	45.8
Ukraine	610	34.5	23.7	34.5	20.5	18.5	0.5	2.2	33.3	35.6
United States	1131	49.6	32.5	49.6	6.3	10.5	0.8	0.4	50.1	49.1
Yemen	821	28.6	11.9	28.6	27.0	19.2	6.0	7.3	31.0	26.8
International Avg.	636	44.0	24.6	44.0	14.7	12.3	2.2	2.1	42.5	45.6
Alberta, Canada	590	43.3	37.7	43.3	11.9	6.1	0.4	0.6	42.3	44.2
British Columbia, Canada	601	39.5	37.9	39.5	11.2	9.7	0.8	1.0	37.8	41.1
Dubai, UAE	432	45.6	27.3	45.6	12.0	11.5	2.2	1.4	45.8	45.2
Massachusetts, US	254	47.6	39.5	47.6	5.8	7.1	0.0	0.0	50.2	45.2
Minnesota, US	268	43.4	36.9	43.4	8.2	8.5	2.0	1.1	43.5	43.3
Ontario, Canada	507	36.1	37.9	36.1	13.7	11.3	0.5	0.5	34.8	37.4
Quebec, Canada	557	39.4	45.7	39.4	7.6	6.6	0.4	0.4	42.7	35.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041107 - S08\_11)  
 Label: Two planets orbit the sun  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
Algeria	608	14.3	16.5	43.1	21.1	4.9	30.8	14.3	15.7	12.9
Armenia	595	45.4	14.6	13.6	20.0	6.5	60.0	45.4	47.2	43.9
Australia	579	76.9	10.8	4.6	5.6	2.1	87.7	76.9	72.8	80.6
Austria	688	64.2	17.1	8.3	10.2	0.2	81.3	64.2	64.3	64.0
Chinese Taipei	590	52.3	17.5	18.6	11.6	0.0	69.8	52.3	45.2	59.2
Colombia	688	64.0	7.2	11.9	10.4	6.5	71.2	64.0	57.8	71.6
Czech Republic	611	60.4	9.2	10.7	18.9	0.8	69.6	60.4	57.0	62.7
Denmark	505	53.0	20.5	12.8	10.4	3.2	73.5	53.0	49.2	57.0
El Salvador	596	46.5	13.0	17.5	17.8	5.2	59.5	46.5	43.5	49.3
England	623	66.6	17.1	10.9	5.0	0.3	83.8	66.6	61.9	71.1
Georgia	571	38.0	7.8	20.2	27.8	6.2	45.8	38.0	37.9	38.1
Germany	748	55.8	22.4	10.5	10.4	0.9	78.2	55.8	53.2	58.1
Hong Kong SAR	543	75.0	14.0	6.2	4.5	0.3	89.0	75.0	71.8	77.7
Hungary	574	58.3	15.4	13.1	11.7	1.4	73.8	58.3	60.8	55.7
Iran, Islamic Rep. of	542	38.7	11.5	29.9	16.6	3.3	50.3	38.7	40.2	37.3
Italy	635	61.5	7.5	8.3	20.2	2.5	69.0	61.5	59.1	63.7
Japan	632	62.0	16.8	16.1	5.0	0.2	78.8	62.0	56.8	67.1
Kazakhstan	566	66.3	13.1	12.4	5.9	2.3	79.4	66.3	62.4	70.7
Kuwait	534	21.2	17.5	34.9	20.0	6.3	38.7	21.2	22.8	19.6
Latvia	563	59.3	15.8	16.0	7.5	1.4	75.1	59.3	58.7	59.9
Lithuania	561	68.5	9.6	8.2	12.8	0.9	78.1	68.5	72.3	65.2
Morocco	566	7.1	7.7	41.4	39.4	4.5	14.8	7.1	5.2	9.2
Netherlands	481	52.5	28.2	16.7	2.1	0.5	80.8	52.5	51.4	53.6
New Zealand	711	72.4	12.2	9.1	4.8	1.4	84.7	72.4	72.9	71.9
Norway	570	70.5	15.3	5.9	6.0	2.4	85.8	70.5	71.5	69.4
Qatar	994	12.9	14.5	50.1	20.0	2.5	27.4	12.9	11.0	14.9
Russian Federation	638	74.8	6.9	7.8	9.6	0.9	81.7	74.8	72.3	77.7
Scotland	562	68.1	15.4	7.2	8.6	0.8	83.5	68.1	67.8	68.4
Singapore	723	64.5	16.1	17.6	1.7	0.0	80.6	64.5	61.1	67.7
Slovak Republic	716	83.5	4.4	4.5	6.0	1.6	87.9	83.5	86.2	80.8
Slovenia	619	53.5	17.4	19.1	9.2	0.7	70.9	53.5	51.0	55.8
Sweden	659	68.2	13.0	5.6	11.6	1.6	81.1	68.2	68.2	68.1
Tunisia	591	20.6	11.2	37.5	23.6	7.2	31.7	20.6	19.1	22.0
Ukraine	610	62.0	6.6	12.7	16.5	2.2	68.6	62.0	59.7	64.0
United States	1131	82.3	8.4	6.5	2.2	0.6	90.7	82.3	80.8	83.8
Yemen	821	5.9	4.7	56.3	24.4	8.7	10.6	5.9	6.0	5.9
International Avg.	637	54.1	13.2	17.4	12.8	2.5	67.3	54.1	52.6	55.5
Alberta, Canada	590	69.9	18.3	6.2	5.0	0.6	88.2	69.9	69.6	70.2
British Columbia, Canada	601	79.3	9.9	3.9	5.9	1.1	89.1	79.3	79.0	79.5
Dubai, UAE	433	67.9	8.4	12.1	9.5	2.1	76.3	67.9	69.6	66.3
Massachusetts, US	254	88.6	7.5	2.5	1.4	0.0	96.1	88.6	83.8	92.9
Minnesota, US	268	83.2	8.2	4.8	1.8	2.0	91.4	83.2	85.5	80.7
Ontario, Canada	507	72.4	13.8	4.8	8.5	0.5	86.2	72.4	72.1	72.7
Quebec, Canada	557	77.4	11.0	6.5	4.7	0.4	88.4	77.4	72.8	82.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041113 - S08\_12)

Label: Why shadows changed

Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	607	16.2	53.3	19.2	11.3	16.2	15.6	16.8
Armenia	595	30.1	39.5	18.8	11.5	30.1	31.0	29.4
Australia	579	54.1	40.7	2.8	2.4	54.1	48.1	59.8
Austria	688	37.5	50.5	9.8	2.2	37.5	35.7	39.4
Chinese Taipei	590	74.2	20.6	4.1	1.0	74.2	71.8	76.6
Colombia	688	14.5	64.2	12.9	8.4	14.5	12.7	16.7
Czech Republic	611	42.3	44.9	10.0	2.8	42.3	37.5	45.5
Denmark	505	56.0	36.5	3.0	4.4	56.0	56.9	55.1
El Salvador	596	16.8	59.7	12.2	11.4	16.8	10.3	22.9
England	623	57.0	39.3	2.3	1.4	57.0	57.0	57.0
Georgia	571	29.6	39.8	18.0	12.6	29.6	32.7	27.4
Germany	748	51.8	41.0	5.4	1.9	51.8	48.3	54.7
Hong Kong SAR	543	75.3	19.8	3.8	1.2	75.3	77.3	73.5
Hungary	574	47.1	45.1	5.3	2.6	47.1	45.7	48.5
Iran, Islamic Rep. of	542	21.6	60.9	10.7	6.8	21.6	15.5	27.4
Italy	635	37.1	50.6	7.1	5.2	37.1	33.7	40.1
Japan	632	35.9	61.9	1.5	0.6	35.9	36.5	35.4
Kazakhstan	567	23.3	69.7	3.2	3.8	23.3	22.1	24.8
Kuwait	534	15.9	57.2	14.5	12.4	15.9	20.8	11.0
Latvia	563	53.3	42.6	2.4	1.7	53.3	52.6	54.1
Lithuania	561	51.1	40.9	5.4	2.6	51.1	47.5	54.3
Morocco	566	11.4	44.2	27.1	17.4	11.4	14.0	8.6
Netherlands	481	46.1	51.9	1.4	0.6	46.1	44.7	47.4
New Zealand	711	41.8	53.0	3.0	2.2	41.8	38.5	44.9
Norway	570	38.8	51.9	5.7	3.6	38.8	34.3	43.6
Qatar	994	9.8	66.6	14.8	8.7	9.8	10.6	9.0
Russian Federation	638	42.3	48.8	6.7	2.2	42.3	41.7	43.0
Scotland	562	40.3	51.5	4.8	3.4	40.3	41.0	39.5
Singapore	723	75.2	24.2	0.4	0.1	75.2	74.7	75.7
Slovak Republic	716	42.3	47.8	6.7	3.2	42.3	41.1	43.6
Slovenia	619	58.8	35.0	3.5	2.7	58.8	54.9	62.4
Sweden	659	57.3	34.6	4.7	3.4	57.3	54.6	60.3
Tunisia	590	12.7	55.2	16.7	15.4	12.7	13.1	12.4
Ukraine	610	20.2	63.4	12.4	4.0	20.2	22.4	18.2
United States	1131	34.6	61.7	3.0	0.7	34.6	33.6	35.6
Yemen	822	4.7	55.9	22.0	17.4	4.7	4.5	4.9
International Avg.	637	38.3	47.9	8.5	5.4	38.3	37.0	39.4
Alberta, Canada	590	53.0	43.7	1.6	1.7	53.0	54.9	51.3
British Columbia, Canada	601	42.6	52.5	3.2	1.7	42.6	42.4	42.8
Dubai, UAE	433	37.4	47.8	10.5	4.3	37.4	43.7	31.7
Massachusetts, US	254	42.6	56.4	1.0	0.0	42.6	40.0	44.9
Minnesota, US	268	36.4	60.0	0.9	2.6	36.4	35.6	37.3
Ontario, Canada	507	42.6	53.6	2.4	1.4	42.6	47.6	37.4
Quebec, Canada	557	51.9	44.8	2.2	1.1	51.9	47.7	56.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031340 - S09\_01)  
 Label: Best source of calcium  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	37.6	8.2	13.5	37.6	33.4	4.9	2.4	35.4	39.9
Armenia	592	38.6	7.9	18.5	38.6	17.6	17.4	0.1	39.4	38.0
Australia	578	58.4	2.0	11.6	58.4	25.8	1.6	0.5	56.3	60.9
Austria	687	34.6	8.3	24.4	34.6	30.6	2.1	0.0	31.0	38.3
Chinese Taipei	590	46.2	1.0	37.0	46.2	15.1	0.7	0.0	47.1	45.3
Colombia	701	26.5	5.0	28.2	26.5	33.1	3.8	3.5	21.3	33.1
Czech Republic	607	50.6	3.3	16.1	50.6	27.9	1.6	0.5	46.7	53.9
Denmark	492	64.2	3.8	10.0	64.2	19.9	1.6	0.4	65.7	62.9
El Salvador	599	29.3	6.6	29.4	29.3	28.8	2.6	3.3	25.0	32.8
England	630	65.4	0.9	11.7	65.4	20.4	1.6	0.0	66.4	64.4
Georgia	580	26.0	20.0	18.6	26.0	28.7	4.9	1.8	25.4	26.6
Germany	745	30.8	9.2	15.4	30.8	39.6	4.6	0.5	29.4	32.0
Hong Kong SAR	548	59.3	0.7	25.3	59.3	14.4	0.4	0.0	60.7	58.0
Hungary	579	41.2	7.2	12.4	41.2	37.1	2.0	0.1	43.5	38.5
Iran, Islamic Rep. of	541	32.1	6.2	9.6	32.1	47.3	3.7	1.0	34.1	30.0
Italy	642	45.2	3.3	9.3	45.2	40.0	1.8	0.4	42.0	48.1
Japan	629	69.7	1.3	15.8	69.7	12.2	1.0	0.0	67.9	71.4
Kazakhstan	569	37.1	14.5	12.0	37.1	36.4	0.0	0.0	37.5	36.6
Kuwait	544	22.1	7.5	19.3	22.1	41.4	8.8	1.0	25.4	18.7
Latvia	558	26.5	0.4	32.0	26.5	38.1	2.2	0.7	23.2	29.7
Lithuania	552	43.8	2.5	25.2	43.8	26.2	2.1	0.2	41.7	45.5
Morocco	530	37.1	8.2	15.4	37.1	31.7	4.4	3.2	38.6	35.8
Netherlands	480	42.2	5.7	13.4	42.2	38.0	0.7	0.0	42.4	42.0
New Zealand	714	46.9	3.0	18.6	46.9	29.9	1.0	0.6	49.4	44.6
Norway	576	36.7	3.4	17.7	36.7	39.8	1.9	0.5	40.0	33.4
Qatar	988	26.7	12.3	19.5	26.7	34.8	5.2	1.5	27.1	26.2
Russian Federation	635	36.2	6.6	17.1	36.2	36.8	2.4	1.0	34.2	38.5
Scotland	555	60.7	1.6	15.2	60.7	19.8	1.8	1.0	61.9	59.5
Singapore	716	75.3	1.2	14.9	75.3	8.1	0.5	0.0	79.6	71.6
Slovak Republic	712	54.7	2.0	13.2	54.7	26.8	3.0	0.3	49.6	59.3
Slovenia	615	29.5	7.2	28.0	29.5	33.1	1.3	0.9	31.4	27.7
Sweden	666	46.7	4.5	13.3	46.7	34.3	0.7	0.4	48.2	45.0
Tunisia	591	36.2	7.9	9.7	36.2	23.3	18.3	4.7	38.5	33.8
Ukraine	612	36.5	6.4	17.7	36.5	36.3	2.9	0.3	37.6	35.6
United States	1140	55.9	2.6	14.4	55.9	25.9	0.8	0.4	56.5	55.3
Yemen	827	29.6	11.6	16.4	29.6	30.1	9.4	2.9	28.9	30.2
International Avg.	636	42.7	5.7	17.8	42.7	29.5	3.4	0.9	42.5	42.9
Alberta, Canada	577	73.8	1.2	5.5	73.8	18.8	0.3	0.4	72.7	74.6
British Columbia, Canada	584	69.9	0.9	8.3	69.9	18.7	1.6	0.6	71.1	68.7
Dubai, UAE	430	36.5	4.6	22.1	36.5	31.3	5.1	0.5	43.0	30.8
Massachusetts, US	247	62.6	1.7	9.4	62.6	25.9	0.4	0.0	64.1	61.2
Minnesota, US	263	55.4	0.4	11.8	55.4	30.9	0.9	0.6	57.7	53.4
Ontario, Canada	504	74.2	0.6	6.2	74.2	18.1	0.7	0.1	68.9	80.1
Quebec, Canada	564	71.0	1.8	4.7	71.0	21.3	1.2	0.0	71.6	70.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031236 - S09\_02)  
 Label: Bird's foot structure  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	38.8	6.8	13.6	33.7	38.8	4.5	2.6	37.2	40.4
Armenia	590	80.3	3.0	3.2	3.7	80.3	9.7	0.1	79.8	80.6
Australia	580	88.1	1.3	3.8	4.8	88.1	0.9	1.0	88.2	88.1
Austria	687	89.0	0.8	1.5	8.0	89.0	0.7	0.0	91.0	87.0
Chinese Taipei	590	74.9	1.8	4.2	18.1	74.9	1.0	0.0	73.5	76.3
Colombia	701	46.5	5.2	10.7	28.1	46.5	5.9	3.6	45.6	47.7
Czech Republic	607	91.8	1.2	1.4	3.8	91.8	1.3	0.5	92.1	91.5
Denmark	492	92.9	0.0	1.2	4.1	92.9	1.2	0.5	93.6	92.2
El Salvador	599	62.3	10.2	7.1	13.7	62.3	2.5	4.3	55.5	67.9
England	630	88.8	1.5	2.1	5.9	88.8	1.7	0.0	93.6	84.0
Georgia	580	43.6	2.5	5.9	41.0	43.6	4.7	2.3	43.5	43.7
Germany	745	86.2	0.2	2.6	9.3	86.2	0.6	1.1	87.3	85.1
Hong Kong SAR	548	57.5	5.1	4.8	32.4	57.5	0.2	0.0	54.0	60.9
Hungary	579	89.2	0.7	1.5	5.8	89.2	2.7	0.1	89.7	88.6
Iran, Islamic Rep. of	541	67.0	6.6	8.8	10.0	67.0	6.1	1.5	66.3	67.8
Italy	643	84.3	1.7	1.9	10.4	84.3	1.4	0.4	83.0	85.4
Japan	629	69.2	3.5	6.2	20.0	69.2	1.1	0.0	76.4	62.4
Kazakhstan	569	68.0	5.3	15.7	11.0	68.0	0.0	0.0	67.3	68.9
Kuwait	544	41.3	8.0	10.7	33.1	41.3	5.6	1.3	48.0	34.5
Latvia	558	93.6	1.4	1.2	1.2	93.6	2.0	0.7	92.8	94.4
Lithuania	552	92.6	1.0	2.1	3.2	92.6	1.0	0.2	94.4	91.1
Morocco	539	26.5	10.5	26.5	24.8	26.5	8.2	3.4	27.3	25.7
Netherlands	480	92.9	0.4	1.6	4.6	92.9	0.4	0.2	94.6	91.5
New Zealand	714	85.9	2.3	3.1	6.6	85.9	1.4	0.7	89.1	82.8
Norway	576	91.7	0.7	1.0	5.4	91.7	0.4	0.9	93.7	89.7
Qatar	988	24.9	7.5	18.9	42.1	24.9	4.9	1.7	24.5	25.3
Russian Federation	635	86.2	1.7	1.5	8.6	86.2	1.0	1.0	86.8	85.5
Scotland	555	88.3	1.2	1.6	7.1	88.3	0.7	1.0	91.4	85.2
Singapore	716	76.8	2.4	5.6	14.4	76.8	0.7	0.1	77.8	76.0
Slovak Republic	712	93.5	0.6	0.9	4.4	93.5	0.3	0.3	94.5	92.6
Slovenia	615	86.6	0.6	3.2	7.7	86.6	0.8	1.0	90.9	82.5
Sweden	671	87.2	1.3	2.3	8.2	87.2	0.3	0.6	88.3	86.0
Tunisia	591	59.3	5.7	7.3	6.8	59.3	15.7	5.2	67.5	51.3
Ukraine	612	74.3	1.7	6.0	15.6	74.3	1.9	0.5	72.3	76.0
United States	1140	86.8	0.8	2.6	8.6	86.8	0.4	0.7	87.6	86.0
Yemen	827	26.7	8.1	18.5	29.3	26.7	14.5	2.9	26.7	26.7
International Avg.	636	73.1	3.2	5.9	13.8	73.1	3.0	1.1	74.0	72.3
Alberta, Canada	577	88.4	1.3	3.1	6.7	88.4	0.2	0.4	93.1	84.4
British Columbia, Canada	584	88.4	0.6	2.3	6.5	88.4	1.6	0.6	88.7	88.2
Dubai, UAE	430	64.5	4.6	7.9	18.5	64.5	4.1	0.5	69.6	60.1
Massachusetts, US	247	89.2	0.3	2.0	8.5	89.2	0.0	0.0	89.8	88.6
Minnesota, US	263	89.3	1.1	2.2	5.9	89.3	0.9	0.6	91.9	86.9
Ontario, Canada	504	85.8	0.7	2.5	10.0	85.8	0.8	0.1	86.2	85.4
Quebec, Canada	564	70.3	0.6	6.6	21.6	70.3	1.0	0.0	74.7	66.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S031391A - S09\_03A)  
 Label: Ways to avoid wasting water  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	598	9.0	3.3	4.2	1.2	1.1	31.3	47.5	2.4	17.7	21.8	13.4
Armenia	594	27.4	2.5	0.6	7.6	0.1	27.5	34.2	0.1	38.1	38.9	37.5
Australia	580	19.0	6.4	36.2	2.6	8.8	18.3	7.7	1.0	64.2	68.3	59.4
Austria	687	22.1	7.7	22.1	0.0	15.2	11.6	21.3	0.0	51.9	54.6	49.1
Chinese Taipei	590	23.8	38.1	26.7	0.0	4.2	4.9	2.3	0.0	88.6	92.4	84.8
Colombia	701	20.3	16.1	3.8	1.5	12.2	24.1	18.3	3.7	41.7	42.8	40.3
Czech Republic	607	12.3	9.2	13.8	0.4	18.0	16.5	29.1	0.7	35.6	37.5	34.1
Denmark	492	14.1	14.5	14.5	1.0	8.1	29.4	17.9	0.5	44.1	49.2	39.3
El Salvador	599	17.2	4.9	31.3	0.4	4.8	20.0	17.2	4.3	53.7	55.9	51.9
England	630	38.1	3.9	17.5	0.0	8.5	26.6	5.4	0.0	59.5	65.6	53.3
Georgia	580	2.5	2.8	3.4	2.4	1.7	24.1	60.7	2.4	11.0	14.0	8.0
Germany	745	15.8	5.8	24.0	0.3	14.8	15.7	22.5	1.1	45.9	48.8	43.2
Hong Kong SAR	548	13.1	30.5	25.2	0.8	11.2	13.5	5.7	0.0	69.6	76.4	62.7
Hungary	579	32.9	6.4	19.1	0.1	12.0	15.0	14.2	0.3	58.5	59.3	57.4
Iran, Islamic Rep. of	541	17.8	7.4	16.6	3.9	20.9	11.8	18.9	2.8	45.7	47.8	43.3
Italy	644	33.3	5.4	30.8	0.5	3.1	15.5	11.1	0.4	70.0	68.8	71.1
Japan	629	46.7	10.7	8.7	0.0	22.3	8.8	2.7	0.0	66.1	72.3	60.3
Kazakhstan	569	12.5	8.1	5.5	0.0	30.8	29.1	14.0	0.0	26.1	25.6	26.7
Kuwait	544	20.3	1.6	6.8	2.8	4.1	15.5	47.4	1.4	31.5	36.6	26.4
Latvia	558	9.0	14.9	18.6	1.8	9.8	35.0	10.2	0.7	44.3	43.4	45.3
Lithuania	552	7.8	17.3	18.3	0.0	17.7	23.9	14.9	0.2	43.4	42.0	44.5
Morocco	567	2.7	2.1	3.6	0.9	3.2	24.8	58.9	3.9	9.3	7.8	10.7
Netherlands	480	13.7	4.8	31.7	0.2	13.2	32.1	4.0	0.2	50.5	54.9	47.0
New Zealand	714	16.9	11.7	17.2	0.0	17.9	28.0	7.5	0.9	45.8	46.7	45.0
Norway	576	11.7	7.5	13.0	0.0	16.0	33.4	17.5	0.9	32.2	35.8	28.6
Qatar	988	2.5	1.5	0.8	0.0	2.1	45.7	45.4	1.9	4.9	5.8	3.9
Russian Federation	635	18.0	8.8	14.6	0.0	19.5	20.3	17.8	1.0	41.4	43.7	38.6
Scotland	555	28.1	2.8	13.8	0.0	9.7	35.8	8.7	1.0	44.8	51.7	37.8
Singapore	716	13.5	28.4	33.9	0.5	1.4	20.8	1.5	0.1	76.3	79.6	73.4
Slovak Republic	712	23.1	18.1	18.2	1.2	7.0	12.3	19.8	0.3	60.6	63.9	57.6
Slovenia	615	9.1	7.8	16.8	1.6	20.8	29.0	13.9	1.0	35.3	37.3	33.5
Sweden	671	12.8	4.8	22.3	0.2	19.0	22.7	17.7	0.6	39.9	44.9	34.5
Tunisia	591	16.3	2.5	3.7	0.9	1.4	35.6	33.6	6.1	23.3	26.4	20.3
Ukraine	612	5.2	2.7	11.8	4.2	10.8	29.7	34.4	1.1	23.9	32.6	16.6
United States	1140	16.7	7.0	29.1	0.0	14.1	28.4	4.1	0.7	52.8	58.2	47.5
Yemen	827	0.5	0.0	1.7	2.7	0.3	38.1	53.1	3.6	4.9	6.9	3.4
International Avg.	638	16.8	9.1	16.1	1.1	10.7	23.7	21.1	1.3	43.1	46.1	40.3
Alberta, Canada	577	36.3	10.8	28.2	0.5	5.6	15.2	2.9	0.4	75.8	77.5	74.4
British Columbia, Canada	584	28.9	7.3	28.5	0.8	7.2	18.9	7.9	0.6	65.5	69.5	61.7
Dubai, UAE	430	23.4	5.7	11.3	0.3	11.8	27.2	19.8	0.5	40.7	43.2	38.3
Massachusetts, US	247	24.6	8.3	31.9	0.0	10.3	22.2	2.7	0.0	64.8	66.1	63.5
Minnesota, US	263	22.8	8.4	32.4	0.0	13.6	21.2	1.0	0.6	63.5	64.5	62.7
Ontario, Canada	504	27.5	10.7	25.1	0.3	11.6	19.4	5.3	0.1	63.6	64.6	62.5
Quebec, Canada	564	37.7	4.1	26.5	0.7	3.5	16.4	11.1	0.0	68.9	78.0	60.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031391B - S09\_03B)  
 Label: Ways to avoid wasting water  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	598	4.1	2.5	1.9	1.5	1.8	33.6	52.2	2.4	10.0	10.8	9.2
Armenia	592	10.7	5.1	2.5	6.8	0.3	30.4	44.1	0.1	25.1	26.7	23.9
Australia	580	12.8	8.1	34.8	4.5	5.5	22.3	10.9	1.0	60.2	61.7	58.4
Austria	687	9.9	6.3	22.7	0.0	11.6	18.0	31.5	0.0	38.8	41.0	36.5
Chinese Taipei	590	12.1	30.7	27.2	0.0	6.0	18.0	6.0	0.0	70.0	73.5	66.5
Colombia	701	6.2	11.4	5.2	1.0	9.4	39.8	23.4	3.7	23.7	24.1	23.1
Czech Republic	607	3.9	5.3	9.7	0.2	12.5	22.6	45.2	0.7	19.1	23.7	15.0
Denmark	492	6.5	6.0	12.1	0.1	9.1	39.4	26.2	0.5	24.8	26.1	23.6
El Salvador	599	7.1	5.6	15.4	0.7	3.8	36.9	26.2	4.3	28.7	32.2	25.8
England	630	10.1	3.0	29.3	0.0	11.9	36.3	9.3	0.0	42.4	45.3	39.6
Georgia	580	1.3	1.9	1.3	1.8	0.2	21.8	69.2	2.4	6.4	7.3	5.4
Germany	745	7.9	5.9	23.1	0.0	10.2	21.7	30.2	1.1	36.9	38.8	35.2
Hong Kong SAR	548	8.7	19.4	24.8	1.2	12.5	23.4	9.9	0.0	54.2	59.7	48.7
Hungary	579	8.7	6.9	25.2	0.5	9.8	24.7	23.8	0.3	41.4	46.0	35.8
Iran, Islamic Rep. of	541	8.9	6.6	19.5	5.5	11.6	15.8	29.1	2.8	40.5	43.5	37.3
Italy	644	8.7	6.2	22.0	1.7	6.4	36.6	18.0	0.4	38.6	42.2	35.4
Japan	629	13.7	19.2	16.8	0.0	20.0	22.7	7.6	0.0	49.7	52.2	47.5
Kazakhstan	569	8.4	13.9	4.5	0.3	11.2	35.5	26.2	0.0	27.1	25.8	28.6
Kuwait	544	10.9	1.9	11.9	1.6	3.2	17.0	52.1	1.4	26.3	31.1	21.5
Latvia	558	4.5	8.5	13.2	4.6	7.0	44.4	17.2	0.7	30.8	33.3	28.3
Lithuania	552	4.7	13.8	14.7	0.3	12.3	28.9	25.1	0.2	33.4	36.1	31.3
Morocco	565	0.1	2.9	1.2	1.0	1.4	23.1	66.4	3.9	5.1	4.5	5.7
Netherlands	480	9.3	3.9	20.6	0.0	7.3	51.3	7.5	0.2	33.8	36.6	31.6
New Zealand	714	6.9	6.4	18.2	0.2	16.1	38.5	12.9	0.9	31.6	34.1	29.4
Norway	576	4.8	3.0	13.8	0.0	11.2	39.7	26.7	0.9	21.6	26.2	16.9
Qatar	988	1.3	0.8	0.9	0.1	1.4	43.9	49.6	1.9	3.2	3.0	3.4
Russian Federation	635	7.8	11.3	14.1	0.0	12.7	24.8	28.2	1.0	33.2	33.7	32.6
Scotland	555	10.4	2.5	20.1	0.1	11.6	39.6	14.6	1.0	33.1	39.0	27.2
Singapore	716	13.3	25.0	26.2	0.7	1.8	30.4	2.5	0.1	65.2	70.6	60.6
Slovak Republic	712	7.7	10.6	17.2	0.7	5.3	26.0	32.2	0.3	36.3	36.3	36.2
Slovenia	615	4.2	5.8	16.1	2.9	10.5	36.1	23.4	1.0	28.9	28.5	29.4
Sweden	671	6.0	4.1	16.9	0.0	11.0	33.4	28.0	0.6	27.0	29.6	24.1
Tunisia	591	5.7	1.2	4.9	0.2	1.3	38.8	41.9	6.1	11.9	14.0	9.9
Ukraine	612	1.5	3.6	5.0	3.4	4.4	34.5	46.4	1.1	13.5	18.2	9.6
United States	1140	7.1	5.6	29.2	0.0	13.8	38.2	5.4	0.7	41.9	44.9	38.9
Yemen	827	0.3	0.0	0.7	2.7	0.9	35.2	56.6	3.6	3.8	5.4	2.5
International Avg.	638	7.1	7.6	15.1	1.2	8.0	31.2	28.5	1.3	31.1	33.5	28.7
Alberta, Canada	577	14.2	9.7	35.1	0.8	9.0	25.4	5.3	0.4	59.9	64.9	55.8
British Columbia, Canada	584	11.0	7.9	27.3	0.8	10.9	29.7	11.8	0.6	47.0	45.7	48.3
Dubai, UAE	430	7.4	5.8	15.6	0.5	10.0	35.1	25.0	0.5	29.4	30.3	28.6
Massachusetts, US	247	9.8	7.1	33.9	0.0	12.5	32.8	3.9	0.0	50.8	57.3	44.5
Minnesota, US	263	9.6	7.4	29.6	0.0	12.3	38.1	2.3	0.6	46.7	48.7	44.8
Ontario, Canada	504	10.9	9.6	30.3	0.0	12.0	29.2	7.8	0.1	50.8	51.1	50.6
Quebec, Canada	564	12.0	4.1	33.7	1.8	4.3	27.0	17.0	0.0	51.6	59.7	44.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031391D - S09\_03D)  
 Label: Ways to avoid wasting water/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT	V1	V2	1.GIRL	2.BOY
						REACH ED			%Right	%Right
Algeria	598	7.6	12.5	30.4	47.1	2.4	20.1	7.6	8.9	6.2
Armenia	592	22.1	19.0	25.3	33.5	0.1	41.1	22.1	22.4	22.0
Australia	580	51.8	20.8	18.7	7.7	1.0	72.6	51.8	54.1	49.1
Austria	687	31.3	28.0	19.4	21.3	0.0	59.4	31.3	33.8	28.8
Chinese Taipei	590	65.7	27.2	4.8	2.3	0.0	92.9	65.7	69.6	61.7
Colombia	701	14.8	35.9	28.9	16.7	3.7	50.6	14.8	15.7	13.5
Czech Republic	607	14.6	25.5	30.5	28.7	0.7	40.1	14.6	17.0	12.5
Denmark	492	18.4	32.0	31.1	17.9	0.5	50.4	18.4	23.1	14.1
El Salvador	599	20.4	41.7	16.4	17.2	4.3	62.1	20.4	23.3	17.9
England	630	33.6	34.7	26.2	5.4	0.0	68.3	33.6	38.4	28.8
Georgia	580	3.7	10.0	24.0	59.9	2.4	13.7	3.7	5.1	2.2
Germany	745	30.0	22.7	24.0	22.2	1.1	52.7	30.0	34.2	26.3
Hong Kong SAR	548	46.4	30.9	16.9	5.7	0.0	77.3	46.4	52.8	40.0
Hungary	579	33.3	33.2	19.0	14.2	0.3	66.5	33.3	36.5	29.4
Iran, Islamic Rep. of	541	32.0	22.3	24.6	18.4	2.8	54.2	32.0	33.7	30.1
Italy	644	31.6	45.3	11.8	10.9	0.4	76.9	31.6	34.2	29.4
Japan	629	36.9	42.1	18.3	2.7	0.0	79.0	36.9	40.6	33.4
Kazakhstan	569	8.3	36.5	41.4	13.8	0.0	44.8	8.3	8.9	7.7
Kuwait	544	22.3	13.3	16.6	46.4	1.4	35.6	22.3	25.9	18.6
Latvia	558	17.8	39.4	32.0	10.1	0.7	57.3	17.8	21.1	14.6
Lithuania	552	22.2	32.4	30.4	14.8	0.2	54.6	22.2	20.7	23.4
Morocco	565	3.9	6.7	27.5	58.0	3.9	10.6	3.9	2.8	4.9
Netherlands	480	24.3	35.6	36.1	3.8	0.2	60.0	24.3	27.9	21.5
New Zealand	714	22.3	32.8	36.6	7.5	0.9	55.1	22.3	23.2	21.5
Norway	576	13.3	27.1	41.2	17.5	0.9	40.4	13.3	16.3	10.4
Qatar	988	1.0	6.0	47.6	43.5	1.9	7.0	1.0	0.8	1.3
Russian Federation	635	22.9	28.8	29.6	17.7	1.0	51.7	22.9	22.2	23.8
Scotland	555	23.5	30.9	35.8	8.7	1.0	54.4	23.5	30.4	16.6
Singapore	716	60.1	21.2	17.1	1.5	0.1	81.3	60.1	66.4	54.8
Slovak Republic	712	31.6	33.7	14.9	19.6	0.3	65.3	31.6	32.3	30.9
Slovenia	615	19.5	25.3	40.4	13.7	1.0	44.8	19.5	18.9	20.0
Sweden	671	19.7	27.5	34.6	17.5	0.6	47.2	19.7	22.5	16.6
Tunisia	591	8.9	17.5	35.9	31.6	6.1	26.4	8.9	9.6	8.2
Ukraine	612	9.6	18.2	36.7	34.3	1.1	27.8	9.6	13.7	6.1
United States	1140	32.1	30.4	32.8	3.9	0.7	62.6	32.1	36.4	27.9
Yemen	827	2.9	2.9	43.8	46.8	3.6	5.8	2.9	4.3	1.9
International Avg.	638	23.9	26.4	27.8	20.6	1.3	50.3	23.9	26.3	21.6
Alberta, Canada	577	52.8	30.0	13.8	2.9	0.4	82.9	52.8	56.7	49.6
British Columbia, Canada	584	40.1	32.4	19.1	7.9	0.6	72.5	40.1	40.3	39.9
Dubai, UAE	430	21.6	26.9	31.6	19.5	0.5	48.5	21.6	21.7	21.5
Massachusetts, US	247	41.5	32.5	23.2	2.7	0.0	74.0	41.5	44.0	39.1
Minnesota, US	263	37.4	35.3	25.6	1.0	0.6	72.8	37.4	41.6	33.6
Ontario, Canada	504	41.9	30.7	21.9	5.3	0.1	72.6	41.9	42.4	41.2
Quebec, Canada	564	45.5	29.5	13.9	11.1	0.0	75.0	45.5	55.3	36.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031361 - S09\_04)  
 Label: Eyes in different outside conditions  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	457	36.6	21.1	36.6	17.1	15.2	6.2	3.8	36.4	36.8
Armenia	532	44.2	25.1	44.2	7.4	7.3	15.9	0.1	48.7	40.8
Australia	574	54.1	16.6	54.1	11.2	12.9	3.9	1.3	54.6	53.4
Austria	687	64.9	15.4	64.9	4.2	5.9	9.6	0.0	67.8	61.8
Chinese Taipei	590	68.3	20.8	68.3	1.9	2.9	6.1	0.0	70.6	65.9
Colombia	701	34.7	22.6	34.7	14.7	10.4	13.3	4.4	31.2	39.0
Czech Republic	607	41.8	27.4	41.8	2.7	5.9	21.5	0.7	40.5	42.8
Denmark	471	68.4	16.3	68.4	7.6	5.2	1.2	1.3	64.2	72.5
El Salvador	599	36.4	23.0	36.4	13.9	12.0	9.0	5.6	35.4	37.3
England	630	66.5	13.8	66.5	5.7	8.7	5.2	0.1	66.4	66.6
Georgia	579	30.9	29.3	30.9	12.6	8.0	14.6	4.6	30.0	31.7
Germany	745	63.6	12.2	63.6	4.5	4.7	13.4	1.5	66.6	60.9
Hong Kong SAR	548	70.6	19.1	70.6	3.0	3.0	4.3	0.0	74.7	66.6
Hungary	579	54.3	22.4	54.3	5.9	7.2	10.0	0.3	53.4	55.5
Iran, Islamic Rep. of	541	36.2	25.2	36.2	11.2	7.8	15.0	4.5	33.7	39.0
Italy	592	63.3	18.6	63.3	6.6	6.8	4.3	0.4	63.5	63.1
Japan	629	57.2	23.6	57.2	3.1	3.6	12.4	0.0	62.3	52.5
Kazakhstan	569	54.5	27.1	54.5	7.9	9.1	1.4	0.0	55.3	53.6
Kuwait	544	36.6	24.2	36.6	12.8	10.7	13.3	2.4	33.7	39.5
Latvia	558	48.7	14.5	48.7	4.1	6.0	26.0	0.7	47.0	50.4
Lithuania	552	37.4	28.1	37.4	8.1	10.1	16.0	0.3	36.4	38.2
Morocco	451	34.0	21.9	34.0	24.1	10.7	3.7	5.5	32.3	36.0
Netherlands	480	68.6	13.6	68.6	5.5	8.2	3.6	0.6	70.3	67.2
New Zealand	714	56.5	13.3	56.5	11.5	11.5	6.4	0.9	58.9	54.2
Norway	576	53.6	21.6	53.6	8.9	7.8	5.5	2.6	53.0	54.2
Qatar	988	38.9	25.9	38.9	14.7	9.6	8.8	2.2	41.5	36.1
Russian Federation	635	49.8	21.5	49.8	6.8	10.4	10.3	1.2	48.2	51.7
Scotland	555	51.8	20.2	51.8	9.3	9.9	7.7	1.1	50.8	52.8
Singapore	716	69.0	22.2	69.0	3.6	5.0	0.1	0.1	70.1	67.9
Slovak Republic	712	57.8	19.8	57.8	5.2	6.2	10.6	0.4	58.7	57.0
Slovenia	615	54.0	22.6	54.0	4.9	5.5	11.3	1.8	51.5	56.4
Sweden	635	67.0	20.1	67.0	4.3	6.5	1.4	0.7	67.3	66.6
Tunisia	591	26.9	14.8	26.9	12.1	8.6	30.6	7.0	30.6	23.4
Ukraine	612	41.0	20.7	41.0	9.6	14.2	12.8	1.7	42.4	39.8
United States	1140	65.8	16.6	65.8	6.7	8.8	1.0	1.1	65.1	66.6
Yemen	829	23.7	21.1	23.7	26.2	13.8	10.8	4.4	24.1	23.4
International Avg.	626	50.8	20.6	50.8	8.9	8.3	9.7	1.8	51.0	50.6
Alberta, Canada	577	68.8	12.4	68.8	9.3	7.0	2.0	0.5	69.9	67.9
British Columbia, Canada	584	58.5	18.6	58.5	6.3	10.5	4.9	1.2	54.2	62.6
Dubai, UAE	430	48.6	21.3	48.6	10.1	8.1	11.3	0.7	52.7	45.0
Massachusetts, US	247	66.9	19.3	66.9	5.7	6.6	1.0	0.4	63.2	70.5
Minnesota, US	263	73.7	14.6	73.7	5.4	4.9	0.9	0.6	74.8	72.7
Ontario, Canada	504	71.2	12.9	71.2	5.4	7.8	2.6	0.1	70.4	72.1
Quebec, Canada	564	57.8	19.8	57.8	7.2	6.2	8.7	0.4	63.6	52.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031001 - S09\_05)  
 Label: How tadpoles get in the pond  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	38.3	28.0	10.5	14.8	38.3	4.4	4.1	36.6	40.0
Armenia	589	57.3	15.3	8.3	6.4	57.3	12.6	0.1	61.9	54.0
Australia	580	86.3	7.6	2.6	1.1	86.3	0.4	2.1	86.4	86.2
Austria	687	86.3	9.4	1.8	0.8	86.3	1.7	0.0	86.7	85.9
Chinese Taipei	590	92.4	4.2	1.6	0.8	92.4	0.9	0.0	92.5	92.3
Colombia	701	59.4	14.4	10.9	7.1	59.4	2.6	5.6	59.1	59.8
Czech Republic	607	81.9	12.6	1.4	1.7	81.9	1.5	0.7	79.8	83.8
Denmark	492	81.2	9.4	2.4	4.2	81.2	1.7	1.3	80.9	81.4
El Salvador	599	53.5	21.0	8.1	7.6	53.5	3.9	5.8	50.7	55.8
England	630	89.0	6.5	1.7	1.6	89.0	1.1	0.1	93.4	84.6
Georgia	580	47.2	20.3	13.8	9.1	47.2	5.0	4.6	47.6	46.9
Germany	745	86.6	8.4	0.5	1.4	86.6	1.4	1.7	88.7	84.6
Hong Kong SAR	548	90.5	6.4	1.2	1.3	90.5	0.6	0.0	92.1	89.0
Hungary	579	76.0	18.6	0.9	1.5	76.0	2.3	0.7	74.7	77.5
Iran, Islamic Rep. of	541	64.8	12.9	4.0	7.3	64.8	5.8	5.2	64.7	64.9
Italy	640	90.4	5.3	2.0	0.3	90.4	1.2	0.8	89.5	91.1
Japan	629	93.7	3.3	1.0	1.4	93.7	0.6	0.0	94.3	93.1
Kazakhstan	569	69.6	22.0	5.4	2.9	69.6	0.1	0.0	67.3	72.5
Kuwait	544	52.7	17.7	9.5	11.4	52.7	6.0	2.8	58.6	46.6
Latvia	558	78.1	14.9	3.0	2.0	78.1	1.4	0.7	78.0	78.1
Lithuania	551	77.2	15.6	2.5	1.6	77.2	1.9	1.2	71.9	81.4
Morocco	539	29.2	29.4	10.7	17.2	29.2	8.7	4.7	31.1	27.6
Netherlands	480	89.5	6.6	2.5	0.7	89.5	0.2	0.6	90.5	88.7
New Zealand	714	81.0	9.5	2.0	4.7	81.0	2.0	0.9	85.5	76.9
Norway	576	81.0	5.9	4.0	3.2	81.0	2.6	3.3	79.0	83.0
Qatar	988	25.5	30.0	20.9	16.9	25.5	4.3	2.3	28.3	22.7
Russian Federation	635	82.8	10.6	2.6	2.2	82.8	0.4	1.3	80.8	85.1
Scotland	555	85.2	8.9	1.9	1.6	85.2	1.0	1.4	87.3	83.2
Singapore	716	92.2	4.1	2.0	1.4	92.2	0.3	0.1	92.3	92.2
Slovak Republic	712	73.5	21.7	2.0	1.2	73.5	0.9	0.5	68.6	78.0
Slovenia	615	87.8	7.4	0.9	1.4	87.8	0.6	1.9	87.9	87.7
Sweden	671	87.6	7.1	2.0	1.5	87.6	1.1	0.8	90.3	84.7
Tunisia	591	38.4	14.2	9.4	11.5	38.4	18.9	7.6	41.2	35.7
Ukraine	612	66.8	19.0	6.2	4.8	66.8	1.5	1.7	66.2	67.3
United States	1140	83.4	9.7	1.4	2.8	83.4	1.4	1.3	82.2	84.6
Yemen	828	22.6	25.0	16.2	22.8	22.6	9.0	4.4	21.4	23.6
International Avg.	636	71.6	13.4	4.9	5.0	71.6	3.1	1.9	71.9	71.4
Alberta, Canada	577	85.5	9.1	1.4	2.0	85.5	1.4	0.5	86.9	84.4
British Columbia, Canada	584	82.7	9.8	3.2	2.1	82.7	1.1	1.2	82.9	82.5
Dubai, UAE	430	68.3	13.4	7.7	6.7	68.3	2.9	1.0	68.3	68.6
Massachusetts, US	247	85.4	7.9	2.1	2.0	85.4	2.1	0.4	86.2	84.6
Minnesota, US	263	86.1	8.5	1.4	2.5	86.1	1.0	0.6	84.8	87.2
Ontario, Canada	504	83.6	12.8	2.0	1.0	83.6	0.4	0.1	80.4	87.1
Quebec, Canada	564	84.0	6.7	5.1	0.6	84.0	2.4	1.2	87.8	80.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031410 - S09\_07)  
 Label: Which is a mixture  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	558	55.9	55.9	14.7	14.6	4.6	5.6	4.6	56.8	55.0
Armenia	589	68.7	68.7	5.9	7.2	6.5	11.7	0.1	69.5	68.0
Australia	579	62.6	62.6	15.2	15.6	2.5	1.7	2.4	63.1	62.0
Austria	687	76.0	76.0	4.4	13.9	1.3	4.3	0.0	76.2	75.8
Chinese Taipei	590	67.3	67.3	5.9	22.3	3.0	1.5	0.0	65.0	69.5
Colombia	701	52.3	52.3	10.1	19.5	6.4	4.2	7.4	46.4	59.8
Czech Republic	607	48.9	48.9	25.2	9.7	9.4	5.3	1.5	45.3	51.9
Denmark	485	70.5	70.5	4.8	18.1	2.0	1.8	3.0	68.4	72.4
El Salvador	599	54.3	54.3	11.1	16.9	6.8	3.2	7.7	52.6	55.8
England	630	75.5	75.5	8.1	11.0	2.1	3.0	0.4	78.6	72.4
Georgia	579	69.5	69.5	6.7	7.7	7.8	2.9	5.5	72.3	66.6
Germany	745	75.6	75.6	3.7	14.0	1.3	3.1	2.3	74.9	76.3
Hong Kong SAR	548	60.0	60.0	2.9	28.5	6.3	2.4	0.0	60.5	59.4
Hungary	579	72.8	72.8	6.8	14.5	2.2	2.7	1.0	72.0	73.7
Iran, Islamic Rep. of	540	51.4	51.4	15.5	11.6	10.8	4.0	6.7	53.5	49.2
Italy	640	66.3	66.3	6.7	17.8	3.4	4.3	1.5	64.8	67.5
Japan	629	55.2	55.2	14.2	17.9	9.9	2.6	0.2	53.8	56.5
Kazakhstan	569	65.9	65.9	11.9	8.8	13.2	0.2	0.0	66.2	65.5
Kuwait	544	55.6	55.6	10.0	20.8	5.5	4.5	3.6	61.5	49.6
Latvia	558	72.7	72.7	10.3	8.4	5.1	2.7	0.8	75.3	70.2
Lithuania	552	69.8	69.8	5.5	16.7	3.4	3.3	1.4	71.2	68.7
Morocco	515	34.2	34.2	18.4	24.4	9.7	6.6	6.6	32.8	35.5
Netherlands	480	56.4	56.4	9.1	27.6	5.0	1.3	0.6	54.9	57.7
New Zealand	714	61.2	61.2	12.4	19.0	4.0	2.6	1.0	61.1	61.2
Norway	576	58.7	58.7	5.7	20.1	6.1	5.1	4.1	60.9	56.5
Qatar	988	41.9	41.9	19.7	21.6	9.7	4.1	3.0	42.6	41.1
Russian Federation	635	76.7	76.7	6.6	6.5	7.4	1.5	1.3	76.1	77.4
Scotland	555	63.1	63.1	13.2	17.3	2.8	1.5	2.0	64.9	61.4
Singapore	716	74.8	74.8	8.5	12.8	3.5	0.3	0.1	73.2	76.2
Slovak Republic	712	43.6	43.6	24.8	11.8	15.5	3.5	0.7	43.3	43.8
Slovenia	615	43.1	43.1	10.7	27.6	12.9	3.3	2.5	39.8	46.2
Sweden	657	66.1	66.1	5.1	21.9	3.4	1.8	1.7	64.4	68.0
Tunisia	591	33.7	33.7	15.6	16.9	8.1	16.4	9.4	37.9	29.5
Ukraine	612	49.1	49.1	14.2	15.0	15.2	4.3	2.2	53.4	45.4
United States	1140	71.3	71.3	11.1	11.1	3.7	1.1	1.7	71.3	71.3
Yemen	827	29.9	29.9	16.4	29.8	10.4	7.8	5.7	29.5	30.3
International Avg.	634	59.7	59.7	10.9	16.6	6.4	3.8	2.6	59.8	59.7
Alberta, Canada	577	70.0	70.0	7.8	14.8	5.0	1.4	1.0	72.3	68.2
British Columbia, Canada	584	72.0	72.0	11.1	12.1	2.3	1.0	1.4	70.1	73.9
Dubai, UAE	430	64.7	64.7	7.6	18.3	4.7	3.3	1.4	67.2	62.5
Massachusetts, US	247	74.8	74.8	8.7	10.7	2.3	0.8	2.7	74.4	75.2
Minnesota, US	263	79.0	79.0	6.3	9.9	2.7	1.1	1.0	82.4	75.9
Ontario, Canada	504	74.2	74.2	6.8	12.8	4.1	0.5	1.6	73.5	75.0
Quebec, Canada	564	64.9	64.9	9.7	16.8	4.5	2.5	1.6	71.3	59.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031421 - S09\_08)  
 Label: Materials that will burn  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	596	38.3	0.6	1.0	8.8	43.8	3.0	4.6	38.3	35.5	41.2
Armenia	595	75.2	0.1	0.7	5.2	17.9	0.7	0.1	75.2	75.9	74.7
Australia	580	64.2	0.4	0.1	20.3	12.2	0.4	2.4	64.2	58.2	71.5
Austria	687	86.7	0.1	0.6	8.9	3.1	0.6	0.0	86.7	82.9	90.7
Chinese Taipei	590	48.0	0.5	0.3	19.9	30.7	0.6	0.0	48.0	46.4	49.6
Colombia	701	30.5	0.1	0.0	10.8	46.0	4.9	7.8	30.5	29.0	32.4
Czech Republic	607	86.7	0.1	0.0	3.4	7.0	1.4	1.5	86.7	87.2	86.2
Denmark	492	69.5	0.3	0.1	10.3	16.6	0.3	2.9	69.5	66.9	72.0
El Salvador	599	28.9	0.0	0.0	0.4	59.3	3.2	8.2	28.9	27.6	30.0
England	630	61.4	0.1	0.0	22.1	14.6	1.3	0.5	61.4	57.7	65.0
Georgia	579	42.5	0.5	0.1	2.8	39.7	8.8	5.7	42.5	48.6	36.3
Germany	745	85.9	0.0	0.0	5.3	5.9	0.4	2.5	85.9	83.8	87.8
Hong Kong SAR	548	46.7	2.4	0.4	22.8	27.6	0.2	0.0	46.7	47.3	46.2
Hungary	579	80.9	0.6	0.0	6.3	10.4	0.5	1.2	80.9	81.8	79.8
Iran, Islamic Rep. of	540	35.1	0.2	0.5	7.6	47.5	2.2	6.9	35.1	30.1	40.5
Italy	644	69.8	0.0	0.0	5.4	21.2	1.8	1.8	69.8	67.8	71.6
Japan	629	64.0	0.5	0.3	19.2	15.5	0.3	0.2	64.0	58.5	69.1
Kazakhstan	569	75.0	0.1	0.0	2.7	21.9	0.3	0.0	75.0	75.3	74.6
Kuwait	544	25.4	1.0	0.9	1.2	62.2	5.4	3.9	25.4	28.9	21.9
Latvia	558	76.7	0.4	0.1	2.4	18.9	0.8	0.8	76.7	75.4	78.0
Lithuania	552	77.8	0.3	0.0	4.5	15.6	0.2	1.5	77.8	78.1	77.5
Morocco	566	23.0	0.9	0.5	29.5	34.5	4.6	7.0	23.0	21.3	24.9
Netherlands	480	78.0	0.6	0.0	7.2	13.1	0.4	0.6	78.0	79.0	77.2
New Zealand	714	51.5	0.1	0.2	22.2	23.2	1.8	1.0	51.5	48.8	53.9
Norway	576	57.4	0.0	1.7	15.1	20.5	1.1	4.3	57.4	52.6	62.2
Qatar	988	13.1	0.5	0.9	29.5	49.1	3.1	3.7	13.1	11.7	14.7
Russian Federation	635	89.2	0.0	0.0	2.6	6.0	0.9	1.3	89.2	89.3	89.2
Scotland	555	58.2	0.3	0.6	22.4	15.7	0.7	2.1	58.2	56.1	60.2
Singapore	716	55.6	0.2	1.6	20.0	22.2	0.3	0.1	55.6	52.6	58.2
Slovak Republic	712	77.6	0.0	0.0	4.4	15.6	1.6	0.7	77.6	75.9	79.2
Slovenia	615	63.6	0.2	1.0	15.2	16.4	1.2	2.5	63.6	66.3	61.0
Sweden	671	65.5	0.1	0.1	19.5	12.7	0.5	1.7	65.5	63.7	67.4
Tunisia	591	36.6	2.2	1.3	3.5	44.6	2.4	9.5	36.6	42.2	31.1
Ukraine	612	66.7	0.0	0.0	3.3	26.2	1.3	2.4	66.7	68.1	65.5
United States	1140	60.3	0.0	0.0	26.3	10.2	1.3	1.9	60.3	54.9	65.6
Yemen	827	11.7	1.2	0.8	21.5	50.0	9.0	5.9	11.7	11.7	11.7
International Avg.	638	57.7	0.4	0.4	12.0	24.9	1.9	2.7	57.7	56.6	58.8
Alberta, Canada	577	62.6	0.5	0.0	20.7	13.7	1.5	1.0	62.6	59.4	65.2
British Columbia, Canada	584	62.8	0.3	0.2	20.8	13.0	1.6	1.4	62.8	61.9	63.6
Dubai, UAE	430	42.9	0.4	0.7	16.9	35.1	2.7	1.4	42.9	41.5	44.2
Massachusetts, US	247	59.3	0.0	0.0	26.6	9.4	1.9	2.7	59.3	54.8	63.7
Minnesota, US	263	63.0	0.4	0.0	25.4	9.2	1.0	1.0	63.0	56.5	69.0
Ontario, Canada	504	57.8	0.6	0.0	28.8	10.3	0.9	1.6	57.8	51.5	64.7
Quebec, Canada	564	58.6	1.0	0.1	23.4	13.5	1.7	1.7	58.6	55.8	61.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031298 - S09\_09)  
 Label: Boiled egg in cold water  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	574	27.8	10.8	27.8	25.3	25.3	5.8	5.0	29.3	26.1
Armenia	592	46.4	5.0	46.4	25.9	11.0	11.6	0.1	48.4	44.9
Australia	580	23.4	10.1	23.4	40.0	22.7	1.3	2.5	18.3	29.6
Austria	687	29.0	6.6	29.0	42.6	19.7	2.0	0.1	25.3	32.8
Chinese Taipei	590	36.5	7.3	36.5	24.3	31.0	0.9	0.0	42.4	30.4
Colombia	701	23.2	10.2	23.2	30.4	23.0	4.5	8.7	24.6	21.3
Czech Republic	607	22.5	4.3	22.5	45.5	23.4	2.4	1.8	20.7	24.1
Denmark	490	28.1	9.8	28.1	42.1	15.0	2.2	2.9	32.1	24.3
El Salvador	599	30.0	11.6	30.0	20.2	23.0	6.7	8.5	32.0	28.4
England	630	33.2	4.2	33.2	41.2	16.7	4.0	0.6	33.5	32.9
Georgia	579	41.2	5.6	41.2	27.3	15.6	4.1	6.2	44.4	38.1
Germany	745	28.8	4.9	28.8	45.3	15.5	2.9	2.6	26.7	30.6
Hong Kong SAR	548	41.4	4.6	41.4	30.2	23.0	0.8	0.0	45.5	37.3
Hungary	579	27.7	5.0	27.7	42.8	21.6	1.5	1.4	26.6	29.0
Iran, Islamic Rep. of	540	31.0	7.1	31.0	27.4	23.2	3.7	7.6	29.9	32.3
Italy	642	38.5	5.5	38.5	37.6	14.2	2.0	2.1	39.8	37.4
Japan	629	53.1	4.0	53.1	30.7	10.8	0.8	0.5	60.3	46.3
Kazakhstan	569	27.4	14.1	27.4	18.3	40.0	0.1	0.2	27.3	27.5
Kuwait	544	26.1	9.7	26.1	27.7	25.4	6.4	4.7	23.7	28.4
Latvia	558	24.1	2.8	24.1	52.1	17.6	2.0	1.4	27.6	20.7
Lithuania	552	34.3	6.0	34.3	42.0	14.8	1.2	1.7	35.1	33.6
Morocco	528	35.1	9.5	35.1	24.1	16.8	6.2	8.4	34.5	35.5
Netherlands	480	15.5	8.9	15.5	35.5	38.8	0.3	1.0	14.9	16.1
New Zealand	714	25.9	8.6	25.9	33.3	27.1	4.1	1.1	27.9	24.1
Norway	576	23.3	8.2	23.3	39.0	21.9	3.2	4.4	21.3	25.2
Qatar	988	26.3	15.9	26.3	25.1	22.4	6.1	4.3	27.6	24.9
Russian Federation	635	41.5	2.7	41.5	36.9	16.3	1.3	1.3	42.1	40.6
Scotland	555	21.7	6.9	21.7	41.4	24.3	3.5	2.3	24.1	19.3
Singapore	716	65.2	7.6	65.2	9.9	16.6	0.6	0.1	68.9	62.0
Slovak Republic	712	39.6	5.4	39.6	37.4	13.9	2.7	1.0	39.2	40.0
Slovenia	615	30.5	3.9	30.5	36.1	25.1	1.9	2.5	30.3	30.7
Sweden	671	26.5	6.3	26.5	41.7	21.4	2.4	1.8	27.7	25.2
Tunisia	591	25.3	8.1	25.3	23.7	17.1	15.9	9.9	25.1	25.5
Ukraine	612	35.0	3.7	35.0	42.9	13.6	2.0	2.8	34.8	35.2
United States	1140	35.3	5.9	35.3	31.3	22.2	3.4	2.0	33.1	37.4
Yemen	827	21.9	11.8	21.9	28.5	21.1	10.4	6.3	20.9	22.7
International Avg.	636	31.7	7.3	31.7	33.5	20.9	3.6	3.0	32.4	31.1
Alberta, Canada	577	27.8	6.2	27.8	37.2	25.0	2.9	1.0	27.6	27.9
British Columbia, Canada	584	26.9	6.3	26.9	39.5	22.1	3.8	1.4	23.4	30.1
Dubai, UAE	430	28.6	9.9	28.6	29.4	25.2	5.1	1.7	29.2	28.2
Massachusetts, US	247	37.0	4.0	37.0	39.2	14.7	2.1	3.0	30.7	43.1
Minnesota, US	263	38.5	5.0	38.5	33.5	20.1	1.9	1.0	37.4	39.5
Ontario, Canada	504	25.8	4.4	25.8	34.6	31.4	2.1	1.6	22.4	29.5
Quebec, Canada	564	16.2	7.8	16.2	50.0	21.0	2.8	2.2	15.4	17.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Reasoning (S031076 - S09\_10)  
 Label: Two carts holding magnets  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT	V1	1.GIRL %Right	2.BOY %Right
						REACH ED			
Algeria	599	6.2	12.4	31.9	43.1	6.4	6.2	6.7	5.7
Armenia	595	26.3	16.4	17.8	34.8	4.7	26.3	29.6	23.8
Australia	580	41.0	32.6	14.9	9.0	2.5	41.0	33.0	50.6
Austria	687	54.0	27.0	6.8	12.1	0.1	54.0	50.1	57.9
Chinese Taipei	590	73.8	10.1	10.4	5.7	0.0	73.8	72.5	75.1
Colombia	701	8.6	16.2	40.2	26.0	8.9	8.6	6.9	10.7
Czech Republic	607	32.8	34.9	14.3	16.2	1.8	32.8	34.6	31.3
Denmark	492	44.5	18.1	21.5	12.8	3.0	44.5	38.5	50.2
El Salvador	599	4.4	13.3	44.8	27.2	10.3	4.4	3.0	5.6
England	630	58.9	22.5	11.8	6.0	0.8	58.9	58.7	59.1
Georgia	580	8.7	31.8	15.9	37.0	6.6	8.7	11.9	5.5
Germany	745	47.2	29.2	10.3	10.5	2.7	47.2	42.0	52.0
Hong Kong SAR	548	51.3	33.6	12.6	2.1	0.4	51.3	44.2	58.3
Hungary	579	38.8	41.0	9.9	8.5	1.8	38.8	37.6	40.3
Iran, Islamic Rep. of	541	44.5	10.3	18.3	18.7	8.1	44.5	44.5	44.5
Italy	644	25.6	35.5	20.0	16.3	2.6	25.6	19.5	31.0
Japan	629	88.1	3.8	5.4	2.2	0.5	88.1	87.5	88.6
Kazakhstan	569	52.3	29.5	11.0	7.0	0.2	52.3	47.7	57.8
Kuwait	544	11.0	10.2	29.2	44.0	5.6	11.0	12.6	9.3
Latvia	558	38.4	7.6	45.5	6.7	1.8	38.4	38.8	38.0
Lithuania	552	23.9	38.5	22.0	13.8	1.9	23.9	20.0	27.0
Morocco	567	2.6	5.7	17.9	64.5	9.4	2.6	1.5	3.6
Netherlands	480	35.8	38.9	20.3	4.0	1.0	35.8	31.1	39.5
New Zealand	714	37.9	36.4	18.5	5.7	1.5	37.9	32.6	42.9
Norway	576	24.4	26.9	26.5	17.5	4.8	24.4	20.4	28.4
Qatar	988	6.2	11.4	33.7	43.4	5.2	6.2	7.3	5.0
Russian Federation	635	46.5	34.7	6.2	11.3	1.3	46.5	41.6	52.2
Scotland	555	33.5	30.9	21.4	11.5	2.7	33.5	34.3	32.6
Singapore	716	76.1	7.4	15.0	1.3	0.2	76.1	77.5	74.8
Slovak Republic	712	43.1	37.0	9.3	9.2	1.4	43.1	41.3	44.7
Slovenia	615	48.3	30.4	12.5	5.9	2.9	48.3	45.4	51.0
Sweden	671	35.6	26.2	19.6	16.4	2.3	35.6	35.4	35.7
Tunisia	591	1.3	15.5	31.7	39.0	12.5	1.3	0.5	2.1
Ukraine	612	24.9	28.7	22.1	21.6	2.8	24.9	21.0	28.1
United States	1140	53.3	23.7	17.2	3.5	2.3	53.3	51.7	54.9
Yemen	826	4.0	2.6	42.9	43.5	7.1	4.0	4.4	3.6
International Avg.	638	34.8	23.1	20.3	18.3	3.6	34.8	32.9	36.7
Alberta, Canada	577	58.2	19.9	14.6	6.1	1.1	58.2	64.2	53.3
British Columbia, Canada	584	43.9	29.2	18.1	7.0	1.8	43.9	39.7	48.0
Dubai, UAE	430	40.6	20.4	15.7	21.4	1.9	40.6	43.7	37.9
Massachusetts, US	247	60.8	20.5	10.7	4.6	3.5	60.8	64.7	57.0
Minnesota, US	263	60.0	25.7	11.9	1.5	1.0	60.0	55.7	64.0
Ontario, Canada	504	68.9	14.0	7.6	6.9	2.4	68.9	67.2	70.9
Quebec, Canada	564	30.0	34.1	19.0	14.6	2.4	30.0	32.5	27.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S031275 - S09\_11)  
 Label: Explanation for day and night  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	553	23.6	25.0	32.4	23.6	5.3	1.2	12.5	24.1	23.0
Armenia	590	44.1	15.1	22.0	44.1	6.0	6.4	6.4	44.0	44.2
Australia	578	24.2	21.1	48.3	24.2	3.0	0.7	2.7	19.0	30.5
Austria	687	42.8	16.7	34.8	42.8	2.1	3.5	0.2	40.2	45.5
Chinese Taipei	590	24.8	16.9	55.7	24.8	0.9	0.6	1.0	18.4	31.3
Colombia	701	20.5	21.9	36.2	20.5	7.0	2.6	11.8	19.5	21.8
Czech Republic	607	44.2	14.6	29.0	44.2	7.9	1.6	2.8	46.2	42.5
Denmark	491	21.4	22.7	49.0	21.4	2.2	1.2	3.6	20.4	22.2
El Salvador	599	15.2	29.7	34.9	15.2	5.5	2.1	12.6	15.6	14.9
England	630	47.5	11.5	37.7	47.5	1.0	1.0	1.3	40.8	54.2
Georgia	580	34.5	16.1	34.4	34.5	5.1	2.3	7.6	38.1	30.8
Germany	745	32.7	20.9	37.6	32.7	1.4	4.1	3.3	28.2	36.7
Hong Kong SAR	548	40.2	9.4	47.3	40.2	2.3	0.3	0.4	38.5	41.9
Hungary	579	31.9	18.8	38.6	31.9	1.7	5.8	3.2	28.5	36.1
Iran, Islamic Rep. of	541	15.6	23.2	41.7	15.6	5.0	2.4	12.2	13.8	17.6
Italy	638	19.5	18.2	56.3	19.5	1.0	0.7	4.2	18.2	20.5
Japan	629	25.0	15.3	51.3	25.0	5.2	2.6	0.6	22.8	27.1
Kazakhstan	569	38.4	16.1	42.3	38.4	2.9	0.0	0.2	39.1	37.6
Kuwait	544	14.5	21.7	45.0	14.5	4.9	4.6	9.4	12.1	16.8
Latvia	558	51.6	10.2	28.4	51.6	4.4	2.5	2.9	48.3	54.8
Lithuania	552	54.0	6.3	30.4	54.0	4.8	1.8	2.7	49.6	57.5
Morocco	520	14.2	29.1	31.5	14.2	7.2	2.3	15.7	15.1	13.5
Netherlands	480	19.0	19.8	56.5	19.0	2.7	0.9	1.1	17.2	20.4
New Zealand	714	22.8	21.0	49.4	22.8	3.3	1.6	2.0	19.9	25.4
Norway	576	19.0	18.4	53.3	19.0	0.5	2.5	6.2	17.1	20.9
Qatar	988	18.1	27.0	35.8	18.1	6.3	3.3	9.4	18.6	17.6
Russian Federation	635	47.7	9.6	36.6	47.7	2.9	1.1	2.1	44.6	51.3
Scotland	555	14.6	24.8	49.2	14.6	4.2	3.1	4.1	14.7	14.5
Singapore	716	29.9	20.3	43.8	29.9	5.6	0.2	0.2	26.4	32.9
Slovak Republic	712	56.3	8.8	28.1	56.3	3.5	1.1	2.2	53.8	58.6
Slovenia	615	33.9	15.7	41.7	33.9	3.4	1.8	3.6	28.5	39.0
Sweden	669	32.8	17.0	45.2	32.8	1.2	1.0	2.8	33.6	31.8
Tunisia	591	14.1	20.8	29.0	14.1	6.4	13.8	16.0	8.8	19.2
Ukraine	612	44.1	11.6	32.0	44.1	7.6	1.7	3.1	46.9	41.7
United States	1140	38.6	15.6	37.4	38.6	4.1	1.8	2.6	33.3	43.7
Yemen	826	20.1	28.4	27.3	20.1	8.3	6.7	9.2	19.8	20.3
International Avg.	635	30.3	18.3	39.7	30.3	4.1	2.5	5.1	28.4	32.2
Alberta, Canada	577	24.1	23.6	46.4	24.1	1.9	2.1	1.8	18.8	28.6
British Columbia, Canada	584	28.8	13.7	52.4	28.8	1.5	1.5	2.1	21.8	35.6
Dubai, UAE	430	32.6	11.5	46.9	32.6	3.4	3.3	2.4	32.6	32.6
Massachusetts, US	247	41.0	10.8	36.0	41.0	2.9	3.5	5.7	36.4	45.4
Minnesota, US	263	36.0	12.2	47.0	36.0	3.0	0.9	1.0	31.0	40.6
Ontario, Canada	504	26.2	24.0	40.4	26.2	3.1	2.1	4.2	24.8	27.9
Quebec, Canada	564	20.3	14.8	54.7	20.3	2.2	3.8	4.2	17.3	23.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041311 - S10\_01)  
 Label: Thermometer reading hottest water  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	575	82.9	2.6	82.9	6.6	2.3	4.9	0.6	83.8	82.0
Armenia	590	84.3	2.8	84.3	3.4	1.1	8.2	0.2	87.7	81.2
Australia	575	96.0	0.3	96.0	2.0	1.0	0.5	0.2	96.1	95.8
Austria	695	96.5	0.3	96.5	1.0	0.3	1.9	0.0	96.8	96.2
Chinese Taipei	589	96.8	0.5	96.8	2.1	0.3	0.4	0.0	97.2	96.4
Colombia	699	83.3	4.3	83.3	6.1	1.6	4.5	0.2	82.6	84.1
Czech Republic	608	90.3	1.5	90.3	5.6	1.8	0.7	0.0	90.8	89.9
Denmark	484	97.1	0.0	97.1	1.3	0.5	1.1	0.0	96.9	97.3
El Salvador	601	87.2	4.0	87.2	2.9	1.7	3.9	0.4	86.8	87.4
England	613	94.4	0.1	94.4	3.1	1.1	1.3	0.0	96.0	92.9
Georgia	587	94.1	0.2	94.1	1.9	0.8	2.7	0.4	94.8	93.4
Germany	742	95.9	0.2	95.9	0.7	1.6	1.5	0.0	96.5	95.3
Hong Kong SAR	539	97.3	0.5	97.3	1.2	0.8	0.2	0.0	98.5	96.0
Hungary	574	95.6	0.5	95.6	1.8	0.4	1.5	0.1	96.7	94.5
Iran, Islamic Rep. of	550	79.2	1.8	79.2	11.9	2.3	4.7	0.0	80.5	77.8
Italy	645	94.8	0.5	94.8	3.1	0.3	1.2	0.0	95.0	94.6
Japan	643	97.6	0.0	97.6	1.8	0.1	0.5	0.0	97.3	97.9
Kazakhstan	571	93.7	1.9	93.7	4.3	0.0	0.1	0.0	93.2	94.3
Kuwait	537	76.9	3.5	76.9	6.4	2.8	9.2	1.2	78.7	74.9
Latvia	561	91.7	1.5	91.7	3.1	1.5	1.5	0.6	91.9	91.5
Lithuania	559	96.8	0.6	96.8	1.3	1.0	0.4	0.0	98.6	95.3
Morocco	539	78.3	3.5	78.3	8.5	1.4	7.7	0.6	75.9	80.4
Netherlands	479	97.9	0.3	97.9	1.0	0.5	0.3	0.0	99.0	97.0
New Zealand	702	92.3	0.3	92.3	4.0	1.5	1.8	0.0	92.9	91.8
Norway	586	88.9	1.7	88.9	3.0	1.9	4.7	0.0	87.6	90.3
Qatar	986	72.7	4.0	72.7	9.8	3.0	9.5	1.0	74.1	71.1
Russian Federation	632	97.7	0.2	97.7	1.6	0.3	0.1	0.0	98.3	97.1
Scotland	558	95.8	0.2	95.8	2.2	0.3	1.4	0.1	96.9	94.8
Singapore	712	96.4	0.4	96.4	1.7	1.0	0.5	0.0	96.3	96.4
Slovak Republic	711	94.6	0.1	94.6	3.7	0.8	0.9	0.0	93.4	95.7
Slovenia	625	95.5	0.9	95.5	1.7	1.3	0.6	0.0	96.1	94.9
Sweden	675	97.2	0.4	97.2	1.3	0.3	0.8	0.0	97.3	97.2
Tunisia	590	71.9	3.0	71.9	5.8	3.1	15.7	0.4	80.4	64.1
Ukraine	610	89.5	1.3	89.5	6.1	2.2	0.9	0.0	86.8	92.0
United States	1138	93.9	1.0	93.9	3.3	0.7	1.1	0.0	93.4	94.5
Yemen	821	49.2	6.3	49.2	18.3	6.2	18.9	1.0	51.5	47.4
International Avg.	636	89.8	1.4	89.8	4.0	1.3	3.2	0.2	90.5	89.3
Alberta, Canada	571	94.1	0.2	94.1	3.6	0.4	1.5	0.2	94.7	93.6
British Columbia, Canada	582	94.2	0.8	94.2	2.3	1.6	1.2	0.0	94.1	94.3
Dubai, UAE	436	81.6	3.8	81.6	5.5	2.1	6.7	0.2	84.6	78.9
Massachusetts, US	248	95.1	0.0	95.1	1.5	0.9	2.5	0.0	95.2	95.0
Minnesota, US	257	96.9	0.0	96.9	1.0	1.7	0.4	0.0	96.9	97.0
Ontario, Canada	500	92.4	2.3	92.4	2.7	0.5	1.1	0.9	94.1	90.9
Quebec, Canada	562	90.2	0.7	90.2	4.9	0.4	3.8	0.0	89.5	90.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041178 - S10\_02)  
 Label: What plants use energy for  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	36.2	36.2	29.8	18.7	9.9	4.5	0.9	37.7	34.4
Armenia	590	50.6	50.6	12.3	20.3	6.5	10.1	0.2	49.9	51.3
Australia	575	28.3	28.3	27.9	37.5	4.7	1.4	0.2	26.0	31.4
Austria	695	29.8	29.8	27.5	32.5	6.7	3.4	0.0	25.7	34.4
Chinese Taipei	589	81.5	81.5	3.5	10.5	4.1	0.4	0.0	79.6	83.2
Colombia	699	53.2	53.2	14.0	19.2	11.6	1.7	0.4	50.4	56.4
Czech Republic	608	64.3	64.3	22.4	7.4	3.3	2.5	0.0	64.8	63.9
Denmark	483	8.6	8.6	51.4	32.7	6.2	1.0	0.0	7.9	9.5
El Salvador	601	35.8	35.8	25.9	27.5	6.9	3.6	0.4	33.1	37.9
England	613	51.3	51.3	24.8	20.1	2.2	1.6	0.0	47.3	55.2
Georgia	587	31.4	31.4	8.0	46.3	11.1	2.5	0.6	31.9	30.8
Germany	742	35.1	35.1	25.7	29.4	7.3	2.5	0.0	32.2	38.0
Hong Kong SAR	539	87.8	87.8	3.0	4.0	4.6	0.7	0.0	85.4	90.2
Hungary	574	61.2	61.2	14.1	8.8	12.9	2.8	0.1	59.7	62.8
Iran, Islamic Rep. of	550	67.0	67.0	8.6	10.5	9.4	4.4	0.0	67.5	66.4
Italy	643	61.7	61.7	6.4	24.0	6.0	1.9	0.0	59.1	64.1
Japan	643	87.9	87.9	1.3	6.2	3.9	0.6	0.0	88.9	86.9
Kazakhstan	571	48.8	48.8	25.3	16.1	9.8	0.0	0.0	48.1	49.8
Kuwait	537	49.3	49.3	13.7	17.2	10.5	8.0	1.2	55.6	42.4
Latvia	561	47.3	47.3	26.2	12.4	12.0	1.5	0.6	49.4	45.0
Lithuania	559	48.3	48.3	29.2	11.3	8.3	3.0	0.0	44.0	51.8
Morocco	526	20.7	20.7	28.3	26.5	17.0	6.9	0.6	24.6	17.3
Netherlands	479	54.3	54.3	24.7	12.2	8.5	0.3	0.0	56.0	52.9
New Zealand	702	31.6	31.6	27.3	34.7	5.1	1.3	0.0	29.3	33.5
Norway	586	7.8	7.8	47.8	30.4	11.6	2.5	0.0	7.0	8.7
Qatar	986	46.7	46.7	18.8	17.5	11.9	4.1	1.0	44.2	49.4
Russian Federation	632	57.4	57.4	16.2	19.1	6.1	1.2	0.0	56.8	58.1
Scotland	558	31.2	31.2	25.9	35.1	5.6	2.1	0.1	27.3	34.9
Singapore	712	93.3	93.3	1.4	4.1	0.8	0.4	0.0	93.5	93.2
Slovak Republic	711	30.8	30.8	26.6	32.9	6.2	3.4	0.0	30.8	30.9
Slovenia	625	35.1	35.1	44.8	6.9	11.8	1.4	0.0	34.0	36.1
Sweden	673	15.9	15.9	36.8	40.6	5.4	1.4	0.0	15.7	16.0
Tunisia	590	21.4	21.4	22.7	22.8	17.1	15.6	0.5	19.9	22.7
Ukraine	610	61.0	61.0	17.0	16.0	3.9	2.1	0.0	59.9	62.1
United States	1138	53.5	53.5	16.6	26.1	2.4	1.4	0.0	50.0	56.9
Yemen	821	20.4	20.4	27.0	20.4	23.1	8.0	1.0	24.5	17.4
International Avg.	635	45.7	45.7	21.8	21.1	8.2	3.1	0.2	44.9	46.5
Alberta, Canada	571	42.6	42.6	24.0	27.1	3.8	2.4	0.2	37.0	47.9
British Columbia, Canada	582	53.7	53.7	16.9	26.0	2.0	1.4	0.0	52.8	54.6
Dubai, UAE	436	68.8	68.8	7.9	14.5	4.3	4.2	0.3	63.2	73.8
Massachusetts, US	248	54.3	54.3	14.6	26.2	1.7	3.3	0.0	50.2	58.7
Minnesota, US	257	47.9	47.9	25.6	22.2	4.1	0.1	0.0	44.2	51.1
Ontario, Canada	500	57.2	57.2	15.0	22.3	3.5	1.1	0.9	58.1	56.4
Quebec, Canada	562	17.9	17.9	41.0	32.4	5.7	3.0	0.0	18.5	17.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041182 - S10\_03)  
 Label: One thing to avoid flu  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	595	11.2	53.7	34.4	0.8	11.2	12.7	9.3
Armenia	591	46.0	32.0	21.8	0.2	46.0	49.0	43.3
Australia	575	35.6	57.7	6.5	0.2	35.6	38.2	32.1
Austria	695	30.7	53.5	15.7	0.0	30.7	28.3	33.4
Chinese Taipei	589	67.6	27.9	4.6	0.0	67.6	68.1	67.1
Colombia	699	23.4	60.6	15.6	0.4	23.4	20.6	26.6
Czech Republic	608	22.0	62.3	15.5	0.2	22.0	20.6	23.4
Denmark	483	42.1	42.3	15.5	0.0	42.1	41.5	42.8
El Salvador	601	18.3	60.2	20.9	0.6	18.3	23.2	14.3
England	613	44.4	50.3	5.2	0.0	44.4	48.0	41.0
Georgia	587	19.7	47.1	32.1	1.1	19.7	23.7	15.5
Germany	742	39.0	50.3	10.7	0.0	39.0	38.2	39.8
Hong Kong SAR	539	64.7	33.0	2.3	0.0	64.7	65.4	63.9
Hungary	574	22.9	69.3	7.7	0.1	22.9	20.2	25.7
Iran, Islamic Rep. of	550	59.2	26.1	14.6	0.1	59.2	64.9	52.8
Italy	645	62.1	29.2	8.7	0.0	62.1	67.1	57.3
Japan	643	88.1	11.0	0.9	0.0	88.1	91.0	85.3
Kazakhstan	571	67.2	26.6	6.3	0.0	67.2	65.7	69.0
Kuwait	537	12.8	35.4	50.4	1.5	12.8	16.2	8.9
Latvia	.	.	.	.	.	.	.	.
Lithuania	559	39.9	53.1	7.0	0.0	39.9	43.0	37.3
Morocco	559	5.1	35.7	58.7	0.5	5.1	4.9	5.3
Netherlands	479	33.0	64.2	2.7	0.0	33.0	32.7	33.3
New Zealand	702	38.7	55.5	5.8	0.0	38.7	43.5	34.9
Norway	586	41.8	47.8	10.3	0.1	41.8	41.5	42.1
Qatar	986	3.5	48.0	47.5	1.1	3.5	4.9	1.9
Russian Federation	632	58.6	36.5	4.9	0.0	58.6	60.5	56.6
Scotland	558	29.9	60.9	9.1	0.1	29.9	31.8	28.1
Singapore	712	60.8	37.6	1.6	0.0	60.8	64.3	57.8
Slovak Republic	711	27.4	63.3	9.3	0.0	27.4	25.6	29.0
Slovenia	625	28.5	64.4	7.1	0.0	28.5	32.7	24.5
Sweden	675	37.4	54.0	8.6	0.0	37.4	40.8	34.1
Tunisia	590	15.1	62.5	21.6	0.8	15.1	14.8	15.5
Ukraine	610	39.9	45.8	14.3	0.0	39.9	40.9	39.0
United States	1138	50.7	45.7	3.6	0.0	50.7	53.5	47.9
Yemen	821	1.1	40.9	56.9	1.1	1.1	1.7	0.6
International Avg.	639	36.8	47.0	16.0	0.3	36.8	38.3	35.4
Alberta, Canada	571	48.7	46.6	4.5	0.2	48.7	48.5	48.9
British Columbia, Canada	582	52.6	43.9	3.5	0.0	52.6	54.4	50.8
Dubai, UAE	436	16.0	57.5	26.2	0.3	16.0	11.4	20.1
Massachusetts, US	248	59.6	37.0	2.9	0.4	59.6	63.0	56.0
Minnesota, US	257	61.7	35.4	2.9	0.0	61.7	61.1	62.3
Ontario, Canada	500	44.0	50.6	4.5	0.9	44.0	53.1	35.7
Quebec, Canada	562	54.7	37.9	7.4	0.0	54.7	57.4	52.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041180 - S10\_04)  
 Label: Correct predator-prey relationship  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	539	45.4	14.3	15.1	45.4	17.9	6.5	0.9	45.1	45.8
Armenia	584	50.9	13.1	8.1	50.9	16.6	11.1	0.2	52.2	49.6
Australia	575	56.9	7.9	16.1	56.9	16.1	2.8	0.2	59.4	53.5
Austria	695	64.9	9.4	8.8	64.9	12.8	4.0	0.0	61.0	69.3
Chinese Taipei	589	68.8	7.5	11.5	68.8	11.4	0.7	0.0	67.9	69.7
Colombia	699	35.5	13.9	21.3	35.5	25.8	3.1	0.5	36.7	34.0
Czech Republic	609	70.4	9.7	6.7	70.4	9.3	3.7	0.2	67.1	73.6
Denmark	484	51.5	8.4	11.5	51.5	23.6	5.0	0.0	46.4	57.0
El Salvador	601	31.4	19.2	14.8	31.4	30.0	3.9	0.6	26.6	35.3
England	613	62.5	9.9	10.9	62.5	16.1	0.6	0.0	59.9	65.0
Georgia	588	29.1	10.7	20.2	29.1	31.5	6.9	1.7	33.0	25.0
Germany	742	66.0	7.8	12.4	66.0	10.7	3.0	0.0	65.4	66.6
Hong Kong SAR	539	73.4	3.9	12.1	73.4	9.5	1.0	0.0	69.0	78.1
Hungary	574	65.9	5.6	12.9	65.9	12.0	3.4	0.1	63.3	68.5
Iran, Islamic Rep. of	550	28.1	12.3	13.6	28.1	36.5	9.0	0.5	24.0	32.7
Italy	638	73.9	7.7	7.3	73.9	9.5	1.5	0.0	69.3	78.3
Japan	643	81.5	7.8	6.2	81.5	1.9	2.6	0.0	80.3	82.7
Kazakhstan	571	53.8	8.9	11.3	53.8	25.7	0.2	0.0	56.0	51.1
Kuwait	537	33.8	14.6	16.4	33.8	19.6	13.2	2.4	34.1	33.5
Latvia	561	66.0	4.7	13.1	66.0	12.3	3.2	0.6	67.1	64.9
Lithuania	559	77.7	4.9	6.2	77.7	7.1	4.0	0.0	81.0	75.0
Morocco	513	34.1	14.9	21.1	34.1	19.2	9.3	1.2	29.5	38.2
Netherlands	479	61.4	8.1	15.5	61.4	12.9	2.1	0.0	60.9	61.8
New Zealand	702	54.4	10.1	12.9	54.4	19.6	3.0	0.0	52.7	55.7
Norway	586	38.9	13.1	13.3	38.9	27.5	7.2	0.1	36.5	41.6
Qatar	986	28.8	19.4	22.8	28.8	18.0	9.9	1.1	26.7	31.0
Russian Federation	632	77.7	6.5	6.3	77.7	7.7	1.8	0.0	74.0	81.6
Scotland	558	47.0	11.0	17.7	47.0	22.2	2.0	0.1	41.5	52.2
Singapore	712	64.4	10.3	9.7	64.4	15.4	0.2	0.0	62.9	65.7
Slovak Republic	711	59.9	10.2	9.9	59.9	15.5	4.6	0.0	58.3	61.4
Slovenia	625	52.4	9.1	14.7	52.4	20.9	2.7	0.2	48.8	55.7
Sweden	672	63.3	8.6	9.0	63.3	16.4	2.7	0.0	63.9	62.6
Tunisia	590	32.5	7.5	16.8	32.5	14.2	28.2	0.9	29.5	35.2
Ukraine	610	66.0	8.7	11.3	66.0	11.4	2.1	0.3	65.4	66.6
United States	1138	63.1	8.3	13.2	63.1	15.1	0.3	0.1	57.8	68.2
Yemen	821	30.3	15.5	17.6	30.3	21.8	13.6	1.2	24.4	34.8
International Avg.	634	54.5	10.1	13.0	54.5	17.0	5.0	0.4	52.7	56.2
Alberta, Canada	571	54.8	12.0	15.5	54.8	15.2	2.4	0.2	48.3	61.0
British Columbia, Canada	582	61.3	8.4	10.9	61.3	17.1	2.1	0.2	53.7	68.3
Dubai, UAE	436	51.3	9.1	14.9	51.3	18.0	6.3	0.3	53.1	49.7
Massachusetts, US	248	72.7	5.7	10.3	72.7	9.9	1.0	0.4	74.4	70.9
Minnesota, US	257	69.9	8.0	7.5	69.9	14.6	0.0	0.0	60.4	78.1
Ontario, Canada	500	59.8	6.9	15.1	59.8	16.0	1.2	0.9	57.1	62.2
Quebec, Canada	562	56.6	9.1	9.5	56.6	22.1	2.7	0.0	56.1	57.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041187 - S10\_05)  
 Label: Describes condensation  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	538	16.6	27.1	25.8	22.6	16.6	6.8	1.0	17.1	16.0
Armenia	585	42.3	16.9	12.1	8.9	42.3	19.6	0.2	39.7	44.8
Australia	575	27.1	27.6	26.9	14.6	27.1	3.5	0.2	23.8	31.7
Austria	695	17.0	35.3	22.7	11.8	17.0	13.1	0.0	15.3	19.0
Chinese Taipei	589	8.1	80.3	7.8	3.5	8.1	0.3	0.0	6.3	9.8
Colombia	699	20.0	30.0	27.6	18.0	20.0	3.7	0.7	20.1	19.8
Czech Republic	609	26.0	27.7	37.4	3.5	26.0	5.1	0.2	27.3	24.8
Denmark	484	24.2	22.7	16.8	21.6	24.2	14.7	0.0	23.3	25.3
El Salvador	601	16.4	30.1	25.6	24.2	16.4	3.1	0.7	16.6	16.2
England	613	48.7	12.9	20.0	16.1	48.7	2.3	0.0	46.7	50.7
Georgia	588	32.9	23.9	16.1	11.1	32.9	14.4	1.7	34.8	30.8
Germany	742	21.4	29.3	22.8	18.2	21.4	8.4	0.0	16.3	26.4
Hong Kong SAR	.	.	.	.	.	.	.	.	.	.
Hungary	574	31.4	18.4	29.7	16.1	31.4	4.2	0.3	24.5	38.6
Iran, Islamic Rep. of	.	.	.	.	.	.	.	.	.	.
Italy	645	23.9	33.3	25.0	13.8	23.9	3.9	0.1	20.9	26.8
Japan	643	16.4	44.8	20.8	14.2	16.4	3.8	0.0	15.1	17.6
Kazakhstan	571	42.1	22.0	23.6	11.6	42.1	0.6	0.0	42.6	41.6
Kuwait	537	22.0	21.0	27.1	20.3	22.0	7.3	2.4	23.1	20.6
Latvia	561	28.1	24.1	27.9	15.8	28.1	3.5	0.6	25.3	31.1
Lithuania	559	38.9	23.0	23.1	7.7	38.9	7.3	0.0	41.9	36.3
Morocco	511	26.8	19.1	30.6	16.8	26.8	5.3	1.4	22.1	30.4
Netherlands	479	27.0	24.6	22.5	22.4	27.0	3.4	0.0	30.4	24.3
New Zealand	702	34.3	21.1	23.7	18.1	34.3	2.5	0.2	34.0	34.5
Norway	586	16.8	18.8	24.3	31.6	16.8	8.3	0.1	17.1	16.6
Qatar	986	26.1	21.0	23.3	23.4	26.1	4.9	1.2	27.5	24.7
Russian Federation	632	33.1	29.9	17.6	13.8	33.1	5.6	0.0	32.1	34.2
Scotland	558	29.2	26.5	22.9	16.9	29.2	4.3	0.1	33.3	25.3
Singapore	712	70.8	9.2	11.0	8.9	70.8	0.2	0.0	69.4	71.9
Slovak Republic	711	25.5	28.4	23.6	12.1	25.5	10.4	0.0	22.0	28.8
Slovenia	625	21.8	28.5	26.8	14.4	21.8	8.3	0.2	23.2	20.5
Sweden	670	28.8	25.7	22.6	16.8	28.8	6.1	0.0	25.9	31.5
Tunisia	590	16.3	14.7	25.7	20.5	16.3	21.0	1.8	16.3	16.2
Ukraine	610	25.8	29.4	27.3	13.1	25.8	4.1	0.3	21.9	29.5
United States	1138	32.2	26.4	24.7	15.8	32.2	0.8	0.1	30.9	33.5
Yemen	821	25.9	16.7	25.7	21.4	25.9	8.7	1.6	31.1	22.0
International Avg.	639	27.8	26.2	23.3	15.9	27.8	6.5	0.4	27.0	28.6
Alberta, Canada	571	23.8	30.0	24.5	17.4	23.8	4.1	0.2	20.5	26.9
British Columbia, Canada	582	41.1	20.9	21.1	12.2	41.1	4.4	0.2	40.6	41.6
Dubai, UAE	436	37.8	21.7	19.3	15.1	37.8	5.8	0.3	39.9	35.9
Massachusetts, US	248	33.8	23.5	24.1	16.0	33.8	2.2	0.4	35.0	32.4
Minnesota, US	257	38.2	23.5	19.9	18.3	38.2	0.1	0.0	34.4	41.4
Ontario, Canada	500	29.0	29.1	27.4	12.4	29.0	1.2	0.9	30.3	27.8
Quebec, Canada	562	36.0	24.3	17.5	18.5	36.0	3.6	0.1	33.5	37.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041013A - S10\_06A)  
 Label: Use of tiger canines  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	597	28.2	7.9	44.5	18.2	1.3	28.2	28.0	28.3
Armenia	592	64.4	7.5	12.0	15.6	0.4	64.4	68.2	61.0
Australia	575	42.9	7.0	45.6	4.3	0.2	42.9	44.0	41.5
Austria	695	36.3	8.6	47.2	7.9	0.0	36.3	32.5	40.6
Chinese Taipei	589	42.5	10.7	43.1	3.7	0.0	42.5	42.5	42.6
Colombia	699	16.2	3.2	73.2	6.3	1.1	16.2	12.1	20.8
Czech Republic	609	55.9	3.3	36.5	4.1	0.2	55.9	52.4	59.2
Denmark	483	61.0	7.6	26.1	5.0	0.3	61.0	58.9	63.3
El Salvador	601	33.6	4.1	44.8	16.7	0.8	33.6	30.0	36.5
England	613	52.2	7.8	37.6	2.5	0.0	52.2	44.5	59.6
Georgia	587	22.5	9.0	42.8	24.1	1.7	22.5	24.1	20.9
Germany	742	45.3	9.4	39.6	5.8	0.0	45.3	42.5	48.1
Hong Kong SAR	539	30.1	5.0	61.8	3.1	0.0	30.1	30.1	30.1
Hungary	574	46.8	5.6	39.5	7.8	0.3	46.8	43.5	50.3
Iran, Islamic Rep. of	551	37.1	1.3	48.0	13.1	0.5	37.1	35.4	39.1
Italy	645	42.9	1.3	50.2	5.3	0.4	42.9	40.9	44.8
Japan	643	29.6	9.6	59.6	1.3	0.0	29.6	25.2	33.8
Kazakhstan	571	33.4	3.1	59.1	4.4	0.0	33.4	31.5	35.8
Kuwait	537	12.7	1.6	55.9	27.0	2.7	12.7	14.3	11.0
Latvia	.	.	.	.	.	.	.	.	.
Lithuania	559	38.1	6.5	53.9	1.5	0.0	38.1	38.3	37.9
Morocco	559	19.2	6.9	34.1	38.0	1.8	19.2	19.9	18.5
Netherlands	479	45.3	9.0	44.7	1.0	0.0	45.3	41.0	48.8
New Zealand	702	47.9	6.3	42.1	3.5	0.2	47.9	47.8	48.0
Norway	586	30.5	6.8	55.0	7.4	0.2	30.5	28.1	33.3
Qatar	986	15.1	0.8	48.8	33.9	1.3	15.1	17.7	12.4
Russian Federation	632	40.9	12.2	44.7	2.3	0.0	40.9	39.6	42.2
Scotland	558	38.8	5.4	51.8	3.8	0.1	38.8	37.9	39.7
Singapore	712	28.8	6.7	63.5	1.0	0.0	28.8	27.5	29.9
Slovak Republic	711	39.7	7.3	44.3	8.6	0.1	39.7	35.3	43.8
Slovenia	625	54.9	10.7	30.6	3.6	0.2	54.9	53.2	56.4
Sweden	675	44.3	11.8	40.1	3.8	0.0	44.3	43.5	45.1
Tunisia	590	26.1	3.0	55.8	13.3	1.8	26.1	26.7	25.6
Ukraine	610	34.6	4.5	49.8	10.7	0.3	34.6	31.4	37.7
United States	1138	41.9	5.9	50.7	1.5	0.1	41.9	40.5	43.2
Yemen	821	3.5	1.0	61.6	31.9	2.0	3.5	3.3	3.6
International Avg.	640	36.7	6.2	46.8	9.8	0.5	36.7	35.2	38.1
Alberta, Canada	571	37.2	6.4	52.0	4.2	0.2	37.2	34.4	40.0
British Columbia, Canada	582	39.9	8.7	47.4	3.9	0.2	39.9	36.5	43.0
Dubai, UAE	436	36.5	4.1	49.5	9.6	0.3	36.5	33.4	39.4
Massachusetts, US	248	53.2	2.6	42.3	1.5	0.4	53.2	52.7	53.8
Minnesota, US	257	48.6	4.2	44.4	2.8	0.0	48.6	47.8	49.3
Ontario, Canada	500	35.0	6.2	55.5	2.4	0.9	35.0	31.0	38.7
Quebec, Canada	562	25.9	2.2	61.1	10.7	0.1	25.9	23.4	27.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Applying (S041013B - S10\_06B)  
 Label: Use of rat incisors  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	597	8.5	18.8	46.7	24.7	1.3	8.5	9.6	7.3
Armenia	592	51.1	10.0	17.0	21.5	0.4	51.1	54.8	47.8
Australia	575	16.7	15.4	61.6	5.7	0.7	16.7	16.4	17.1
Austria	695	22.2	21.8	43.1	12.9	0.0	22.2	21.3	23.2
Chinese Taipei	589	26.0	19.3	49.9	4.8	0.0	26.0	25.6	26.3
Colombia	699	7.9	6.2	73.1	10.2	2.7	7.9	7.4	8.4
Czech Republic	609	27.7	8.2	49.2	14.7	0.2	27.7	23.9	31.4
Denmark	483	47.9	4.2	38.6	9.0	0.3	47.9	43.0	53.2
El Salvador	601	16.4	40.8	21.8	19.1	1.8	16.4	13.7	18.7
England	613	16.9	18.0	60.4	4.7	0.0	16.9	16.7	17.0
Georgia	587	24.8	14.6	33.1	25.8	1.7	24.8	27.9	21.4
Germany	742	24.5	16.7	47.4	11.5	0.0	24.5	26.3	22.7
Hong Kong SAR	539	4.8	14.5	76.6	4.1	0.0	4.8	4.1	5.6
Hungary	574	33.2	25.6	31.6	9.1	0.5	33.2	30.8	35.7
Iran, Islamic Rep. of	551	13.9	11.2	57.8	16.0	1.1	13.9	14.0	13.8
Italy	645	35.3	8.0	48.3	7.9	0.6	35.3	36.2	34.4
Japan	643	33.0	29.3	34.4	3.3	0.0	33.0	38.3	27.8
Kazakhstan	571	29.9	6.5	52.8	10.7	0.0	29.9	30.3	29.4
Kuwait	537	9.0	15.7	37.6	34.6	3.1	9.0	11.0	6.8
Latvia	.	.	.	.	.	.	.	.	.
Lithuania	559	46.0	14.3	35.6	4.2	0.0	46.0	45.2	46.6
Morocco	559	3.7	15.0	32.2	46.1	2.9	3.7	3.9	3.6
Netherlands	479	21.7	26.5	49.2	2.7	0.0	21.7	20.3	22.8
New Zealand	702	19.6	11.9	62.4	5.9	0.2	19.6	19.5	19.7
Norway	586	45.2	8.4	38.3	7.7	0.3	45.2	46.1	44.2
Qatar	986	0.1	17.5	42.3	38.3	1.8	0.1	0.2	0.0
Russian Federation	632	42.6	13.6	35.5	8.3	0.0	42.6	38.3	47.1
Scotland	558	17.0	10.1	67.1	5.7	0.1	17.0	18.6	15.4
Singapore	712	19.2	15.0	64.2	1.7	0.0	19.2	17.2	20.8
Slovak Republic	711	26.3	10.5	51.1	12.1	0.1	26.3	26.7	25.9
Slovenia	625	36.8	5.0	52.4	5.6	0.2	36.8	34.9	38.5
Sweden	675	38.5	12.7	42.9	5.0	1.0	38.5	41.7	35.4
Tunisia	590	9.7	17.5	49.5	20.6	2.8	9.7	10.0	9.4
Ukraine	610	24.0	20.5	37.7	17.3	0.5	24.0	18.6	29.1
United States	1138	12.5	20.7	65.2	1.6	0.1	12.5	14.5	10.5
Yemen	821	1.0	3.8	50.8	41.0	3.3	1.0	1.1	0.9
International Avg.	640	23.2	15.1	47.4	13.5	0.8	23.2	23.1	23.4
Alberta, Canada	571	14.6	26.1	54.2	4.5	0.5	14.6	16.0	13.3
British Columbia, Canada	582	14.8	19.3	61.1	4.7	0.2	14.8	15.1	14.5
Dubai, UAE	436	13.9	19.4	53.2	13.1	0.3	13.9	13.3	14.3
Massachusetts, US	248	13.3	23.3	61.0	1.9	0.4	13.3	10.4	16.5
Minnesota, US	257	14.8	21.8	61.0	2.4	0.0	14.8	11.7	17.4
Ontario, Canada	500	15.6	21.7	58.1	3.7	0.9	15.6	16.1	15.1
Quebec, Canada	562	23.2	31.1	32.3	13.4	0.1	23.2	23.0	23.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041067 - S10\_07)  
 Label: Type of energy that runs objects  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	596	32.8	46.2	19.6	1.4	32.8	33.7	31.7
Armenia	592	59.5	23.3	16.8	0.4	59.5	60.4	58.6
Australia	575	67.9	27.0	4.4	0.7	67.9	70.1	64.9
Austria	695	70.5	23.5	5.9	0.0	70.5	69.6	71.6
Chinese Taipei	589	72.4	22.2	5.3	0.0	72.4	75.6	69.4
Colombia	699	30.5	51.9	14.5	3.1	30.5	32.6	28.2
Czech Republic	609	62.7	31.1	5.8	0.4	62.7	58.0	67.3
Denmark	483	67.2	24.9	7.4	0.5	67.2	64.5	69.9
El Salvador	601	43.8	35.6	18.2	2.4	43.8	42.3	45.0
England	613	81.9	16.1	1.9	0.0	81.9	83.5	80.4
Georgia	587	61.3	22.1	14.8	1.7	61.3	63.6	58.9
Germany	742	66.6	24.7	8.5	0.3	66.6	64.3	68.8
Hong Kong SAR	539	61.1	38.1	0.8	0.0	61.1	60.3	61.9
Hungary	574	75.7	17.4	6.4	0.5	75.7	74.4	77.0
Iran, Islamic Rep. of	551	34.4	58.2	6.4	1.1	34.4	29.4	39.8
Italy	645	60.5	25.3	13.6	0.6	60.5	57.8	63.1
Japan	643	81.8	14.9	3.3	0.1	81.8	80.2	83.4
Kazakhstan	571	61.5	33.9	4.6	0.0	61.5	65.0	57.0
Kuwait	537	25.1	52.8	19.0	3.1	25.1	29.0	20.9
Latvia	561	72.6	20.9	5.8	0.8	72.6	66.4	79.2
Lithuania	559	75.6	18.7	5.6	0.0	75.6	74.5	76.6
Morocco	559	23.7	42.4	31.0	2.9	23.7	21.6	25.7
Netherlands	479	74.9	22.2	2.9	0.0	74.9	72.9	76.5
New Zealand	702	52.9	41.9	4.9	0.2	52.9	52.2	53.5
Norway	586	48.2	39.6	11.8	0.3	48.2	39.1	58.8
Qatar	986	17.3	61.1	19.8	1.8	17.3	17.7	16.8
Russian Federation	632	83.9	14.0	2.1	0.0	83.9	80.8	87.1
Scotland	558	76.8	19.7	3.3	0.1	76.8	80.7	73.2
Singapore	712	59.8	38.4	1.9	0.0	59.8	57.8	61.5
Slovak Republic	711	55.8	36.9	7.2	0.1	55.8	54.9	56.6
Slovenia	625	65.3	30.8	3.7	0.2	65.3	63.7	66.8
Sweden	675	68.5	26.8	3.7	1.0	68.5	68.6	68.4
Tunisia	590	39.9	45.0	12.2	2.9	39.9	43.0	36.9
Ukraine	610	35.5	44.1	19.7	0.7	35.5	30.9	39.9
United States	1138	63.9	33.1	2.9	0.1	63.9	61.5	66.3
Yemen	821	9.7	66.2	20.5	3.6	9.7	12.1	7.9
International Avg.	637	56.7	33.1	9.3	0.9	56.7	55.9	57.5
Alberta, Canada	571	61.3	34.1	4.1	0.5	61.3	57.9	64.4
British Columbia, Canada	582	61.5	31.1	7.1	0.4	61.5	57.6	65.1
Dubai, UAE	436	47.7	39.0	12.6	0.6	47.7	44.8	50.4
Massachusetts, US	248	76.5	21.5	1.6	0.4	76.5	75.7	77.3
Minnesota, US	257	67.7	28.9	3.4	0.0	67.7	62.6	72.0
Ontario, Canada	500	67.6	28.0	3.5	0.9	67.6	61.5	73.2
Quebec, Canada	562	70.0	24.5	5.5	0.1	70.0	68.9	70.8

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041305 - S10\_08)  
 Label: A balance and four cubes  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	553	27.0	27.0	31.8	20.0	9.5	9.9	1.9	26.6	27.3
Armenia	589	42.0	42.0	15.5	13.0	8.4	20.7	0.4	43.5	40.5
Australia	575	47.7	47.7	28.2	10.0	11.1	2.3	0.7	45.7	50.4
Austria	695	48.0	48.0	26.0	10.7	10.5	4.8	0.0	44.3	52.1
Chinese Taipei	589	67.4	67.4	17.5	8.5	6.0	0.6	0.0	68.4	66.6
Colombia	699	30.0	30.0	33.2	12.4	17.0	3.8	3.7	28.3	31.9
Czech Republic	609	33.6	33.6	35.6	9.7	13.0	7.7	0.4	31.7	35.4
Denmark	483	43.1	43.1	32.3	7.2	7.4	9.5	0.5	41.8	44.5
El Salvador	601	29.3	29.3	29.5	15.6	16.4	6.1	3.1	26.4	31.7
England	613	52.7	52.7	26.1	9.3	10.0	1.9	0.0	49.7	55.6
Georgia	586	26.2	26.2	25.9	14.0	16.4	15.1	2.4	27.3	25.1
Germany	742	50.1	50.1	27.7	7.4	10.3	3.9	0.6	47.1	53.2
Hong Kong SAR	539	68.2	68.2	20.1	5.0	5.7	0.9	0.0	66.4	70.1
Hungary	574	42.7	42.7	22.1	14.8	13.5	6.4	0.5	41.2	44.3
Iran, Islamic Rep. of	551	28.2	28.2	32.6	13.0	16.1	8.4	1.8	31.4	24.5
Italy	645	46.0	46.0	22.9	9.1	16.0	5.4	0.7	41.6	50.2
Japan	643	65.8	65.8	20.1	5.5	4.0	4.4	0.1	66.1	65.6
Kazakhstan	571	56.4	56.4	19.0	9.8	14.1	0.7	0.0	57.0	55.6
Kuwait	537	26.9	26.9	33.3	15.1	12.8	8.7	3.2	27.2	26.7
Latvia	561	51.9	51.9	27.3	9.2	7.6	3.1	0.9	48.2	55.8
Lithuania	559	43.3	43.3	30.2	9.1	13.4	3.9	0.0	39.1	46.8
Morocco	515	20.9	20.9	29.5	26.4	12.3	7.5	3.4	20.8	21.1
Netherlands	479	49.1	49.1	28.0	12.8	9.1	0.9	0.0	44.1	53.2
New Zealand	702	43.6	43.6	27.9	12.0	14.1	2.3	0.2	40.6	45.9
Norway	586	40.8	40.8	37.5	5.3	12.8	2.9	0.6	38.5	43.6
Qatar	986	25.0	25.0	33.4	18.4	13.9	7.3	1.9	23.7	26.5
Russian Federation	632	50.5	50.5	27.5	9.1	11.6	1.3	0.0	53.8	46.9
Scotland	558	47.7	47.7	26.7	10.6	10.7	3.6	0.7	46.2	49.2
Singapore	712	74.7	74.7	15.6	4.6	5.1	0.0	0.0	72.7	76.4
Slovak Republic	711	39.5	39.5	32.6	9.5	12.0	6.3	0.1	34.9	43.7
Slovenia	625	43.9	43.9	29.2	11.1	12.5	3.2	0.2	39.5	48.0
Sweden	674	44.7	44.7	33.0	9.4	8.0	3.9	1.1	44.8	44.5
Tunisia	590	17.8	17.8	28.7	16.4	10.4	23.7	3.0	14.5	20.8
Ukraine	610	39.4	39.4	30.5	12.0	15.5	1.9	0.7	37.7	41.0
United States	1138	55.1	55.1	26.1	8.6	9.4	0.6	0.2	54.6	55.5
Yemen	821	21.3	21.3	27.6	22.3	16.5	8.7	3.6	23.0	20.0
International Avg.	635	42.8	42.8	27.5	11.6	11.5	5.6	1.0	41.3	44.2
Alberta, Canada	571	46.5	46.5	30.1	7.7	13.1	2.2	0.5	47.8	45.2
British Columbia, Canada	582	42.9	42.9	31.4	10.3	11.4	3.6	0.4	34.7	50.7
Dubai, UAE	436	37.3	37.3	32.8	12.1	10.3	6.8	0.7	35.2	39.2
Massachusetts, US	248	57.1	57.1	28.3	2.3	9.9	1.9	0.4	53.1	61.5
Minnesota, US	257	55.4	55.4	26.8	7.0	9.3	1.5	0.0	48.3	61.6
Ontario, Canada	500	46.9	46.9	30.0	9.6	11.7	0.9	1.0	43.5	49.9
Quebec, Canada	562	43.2	43.2	34.9	11.2	8.2	2.5	0.1	44.5	42.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041048 - S10\_09)  
 Label: Styrofoam-brick-apple weigh more  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
-----										
Algeria	598	8.8	30.9	18.0	32.9	7.4	1.9	8.8	11.1	6.2
Armenia	591	41.3	21.5	24.2	11.8	0.8	0.4	41.3	47.4	35.8
Australia	575	43.5	12.9	21.2	20.4	0.4	1.6	43.5	48.7	36.6
Austria	695	72.3	11.5	8.1	7.1	1.0	0.1	72.3	74.6	69.6
Chinese Taipei	589	71.6	20.4	5.1	2.6	0.4	0.0	71.6	74.3	69.1
Colombia	699	22.0	18.0	17.2	35.4	3.2	4.1	22.0	23.1	20.6
Czech Republic	609	54.7	18.2	14.5	10.7	1.4	0.4	54.7	59.3	50.3
Denmark	483	59.1	16.2	10.8	10.9	2.3	0.8	59.1	58.2	60.0
El Salvador	601	10.8	16.9	13.5	50.4	5.3	3.1	10.8	12.5	9.5
England	613	45.5	16.7	18.4	16.3	3.1	0.0	45.5	45.3	45.7
Georgia	586	14.7	23.5	19.4	28.8	10.6	3.0	14.7	19.6	9.5
Germany	742	53.1	20.9	11.8	10.7	2.8	0.6	53.1	53.1	53.1
Hong Kong SAR	539	57.1	32.0	6.7	3.7	0.5	0.0	57.1	61.9	52.1
Hungary	574	63.4	14.1	8.1	12.7	0.9	0.8	63.4	62.2	64.6
Iran, Islamic Rep. of	551	17.8	20.1	24.0	34.1	1.3	2.6	17.8	16.1	19.7
Italy	645	56.4	14.0	8.8	15.4	4.3	1.0	56.4	56.9	55.9
Japan	643	49.0	35.7	7.9	7.2	0.2	0.1	49.0	55.5	42.7
Kazakhstan	571	50.3	28.1	16.9	4.3	0.4	0.0	50.3	54.7	44.9
Kuwait	537	16.6	26.7	37.1	12.0	3.6	3.9	16.6	19.4	13.4
Latvia	561	59.2	17.8	11.2	10.0	0.9	0.9	59.2	58.8	59.5
Lithuania	559	48.1	18.0	30.6	2.5	0.8	0.0	48.1	43.9	51.6
Morocco	558	6.4	29.9	14.8	36.2	8.2	4.5	6.4	6.9	6.0
Netherlands	479	37.0	28.4	20.6	13.1	0.5	0.4	37.0	43.3	31.9
New Zealand	702	40.0	16.8	14.2	27.6	1.2	0.2	40.0	46.3	35.0
Norway	586	58.6	13.9	11.0	14.2	1.4	0.8	58.6	62.3	54.3
Qatar	986	5.1	21.7	8.3	59.6	3.1	2.2	5.1	5.7	4.4
Russian Federation	632	66.3	15.5	16.9	0.6	0.3	0.4	66.3	63.2	69.7
Scotland	558	33.2	17.4	20.2	26.1	2.3	0.7	33.2	32.2	34.2
Singapore	712	50.9	18.6	26.6	3.9	0.0	0.0	50.9	55.9	46.6
Slovak Republic	711	48.2	16.0	21.4	12.5	1.8	0.1	48.2	47.0	49.4
Slovenia	625	47.4	26.2	10.6	14.3	1.2	0.2	47.4	44.9	49.8
Sweden	675	59.2	17.1	11.8	9.5	0.8	1.5	59.2	58.0	60.4
Tunisia	590	18.8	23.6	16.0	34.3	3.9	3.4	18.8	21.1	16.7
Ukraine	610	48.5	23.6	12.8	13.1	1.3	0.7	48.5	45.9	50.9
United States	1138	41.8	20.9	13.5	22.4	1.1	0.2	41.8	42.2	41.5
Yemen	822	0.8	21.0	26.5	38.5	9.3	3.9	0.8	0.6	0.9
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International Avg.	637	41.0	20.7	16.1	18.5	2.4	1.2	41.0	42.6	39.5
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Alberta, Canada	571	50.4	15.1	19.1	12.3	2.2	0.9	50.4	50.7	50.1
British Columbia, Canada	582	50.1	13.2	19.1	14.8	2.3	0.6	50.1	51.2	49.1
Dubai, UAE	436	18.3	20.6	28.7	27.3	4.3	0.7	18.3	21.0	16.0
Massachusetts, US	248	64.4	14.6	9.9	9.2	1.4	0.4	64.4	65.1	63.7
Minnesota, US	257	46.1	26.1	12.2	15.0	0.0	0.5	46.1	47.9	44.6
Ontario, Canada	500	49.8	13.3	20.5	13.9	1.5	1.0	49.8	49.7	49.9
Quebec, Canada	562	56.3	10.0	13.2	17.9	2.5	0.1	56.3	55.4	57.1
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V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041110 - S10\_10)  
 Label: Energy received from the sun  
 Type: CR Key: -

COUNTRY	N	10	11	12	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
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Algeria	597	10.2	9.9	3.4	30.2	43.9	2.4	23.5	25.1	21.7
Armenia	592	33.4	18.5	4.5	9.5	33.7	0.4	56.4	62.1	51.2
Australia	575	28.6	16.3	24.8	20.5	8.3	1.6	69.7	68.8	70.9
Austria	695	22.5	18.8	20.9	18.6	19.0	0.1	62.3	56.1	69.2
Chinese Taipei	589	21.7	1.5	42.5	21.8	12.4	0.0	65.7	62.0	69.3
Colombia	699	19.9	6.7	9.3	37.0	22.0	5.0	36.0	33.2	39.2
Czech Republic	609	34.5	22.8	5.1	21.2	15.7	0.7	62.4	61.4	63.3
Denmark	482	26.2	21.6	10.7	23.1	17.5	1.1	58.4	51.2	66.1
El Salvador	601	19.3	6.8	8.5	36.0	25.5	4.0	34.6	32.0	36.6
England	613	32.5	26.3	10.2	22.0	9.1	0.0	69.0	66.4	71.5
Georgia	588	19.2	31.0	0.7	11.3	34.8	3.1	50.8	51.4	50.2
Germany	742	17.5	19.9	14.5	29.2	18.2	0.6	51.9	44.7	59.1
Hong Kong SAR	539	24.2	6.0	41.5	21.7	6.5	0.0	71.7	71.9	71.5
Hungary	574	31.2	9.2	19.1	21.0	18.8	0.8	59.4	52.0	67.2
Iran, Islamic Rep. of	551	32.8	11.3	0.4	28.8	23.9	2.8	44.5	44.9	44.0
Italy	645	23.2	19.5	22.2	20.2	13.8	1.1	64.9	62.0	67.6
Japan	643	41.2	13.1	4.0	34.6	7.0	0.1	58.3	56.8	59.8
Kazakhstan	571	28.5	36.0	6.6	15.4	13.3	0.2	71.1	72.2	69.8
Kuwait	537	10.8	2.2	0.9	29.6	52.4	4.1	13.9	16.3	11.3
Latvia	561	32.7	47.6	4.8	11.5	2.3	0.9	85.2	84.5	86.0
Lithuania	559	25.1	29.7	7.7	24.2	13.3	0.0	62.5	62.3	62.6
Morocco	558	5.4	4.7	5.4	21.7	57.2	5.5	15.6	13.1	17.8
Netherlands	479	18.1	10.9	38.7	28.6	3.0	0.6	67.7	63.6	71.1
New Zealand	702	20.8	24.3	15.9	28.0	10.5	0.5	61.0	56.6	64.5
Norway	586	25.4	21.8	5.1	26.1	20.8	0.8	52.3	50.9	53.9
Qatar	986	6.6	3.7	1.2	34.2	52.0	2.3	11.5	13.8	9.0
Russian Federation	632	32.7	37.5	6.2	13.3	10.0	0.4	76.4	79.0	73.6
Scotland	558	24.2	27.3	10.8	26.9	9.9	0.8	62.3	53.8	70.3
Singapore	712	36.7	43.0	1.8	17.0	1.5	0.0	81.5	79.5	83.1
Slovak Republic	711	33.6	25.4	8.8	15.7	16.3	0.2	67.8	64.0	71.3
Slovenia	625	44.5	14.3	2.4	27.4	11.0	0.5	61.1	58.9	63.3
Sweden	675	14.2	22.0	10.9	35.3	16.1	1.6	47.1	47.4	46.7
Tunisia	590	5.2	13.1	6.4	38.2	32.7	4.4	24.7	25.0	24.4
Ukraine	610	24.0	25.9	2.7	21.0	25.2	1.1	52.7	54.7	50.9
United States	1138	30.8	21.4	14.0	28.3	5.2	0.3	66.2	66.3	66.1
Yemen	822	4.2	7.0	0.8	30.4	53.3	4.3	12.0	13.4	10.9
-----										
International Avg.	637	23.9	18.8	10.9	24.4	20.4	1.5	53.7	52.1	55.1
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Alberta, Canada	571	32.6	15.6	17.3	27.5	6.2	0.9	65.5	63.6	67.4
British Columbia, Canada	582	36.7	24.0	9.2	21.2	8.3	0.6	69.9	69.4	70.4
Dubai, UAE	436	31.1	8.4	7.3	28.5	24.0	0.7	46.8	49.9	44.1
Massachusetts, US	248	28.2	25.6	16.2	25.9	3.7	0.4	70.0	64.1	76.3
Minnesota, US	257	33.9	18.4	18.1	22.7	6.3	0.5	70.4	68.7	71.9
Ontario, Canada	500	39.2	16.9	13.3	22.9	6.5	1.2	69.4	65.1	73.3
Quebec, Canada	562	24.8	18.7	12.2	31.7	12.5	0.1	55.7	51.4	59.0
-----										

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041069 - S10\_11)  
 Label: Shadow along which line  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	559	42.2	12.5	42.2	20.0	16.2	3.8	5.4	37.6	47.5
Armenia	586	49.6	15.2	49.6	5.4	19.4	4.6	5.9	51.4	47.9
Australia	575	50.7	19.2	50.7	7.5	20.5	0.3	1.7	46.7	56.1
Austria	695	57.7	18.2	57.7	8.0	13.4	2.4	0.2	51.3	65.0
Chinese Taipei	589	79.7	8.9	79.7	3.2	8.2	0.0	0.0	75.0	84.1
Colombia	699	36.2	20.9	36.2	11.9	18.1	4.6	8.4	34.6	38.0
Czech Republic	609	57.2	14.1	57.2	9.2	16.4	1.9	1.2	50.8	63.5
Denmark	482	57.1	20.7	57.1	8.0	11.7	1.4	1.1	47.4	67.4
El Salvador	601	33.6	21.8	33.6	12.1	20.4	6.0	6.1	27.9	38.1
England	613	62.9	17.1	62.9	6.0	13.1	0.1	0.7	60.1	65.7
Georgia	588	41.3	20.0	41.3	11.8	19.4	4.0	3.5	37.0	45.8
Germany	742	60.5	15.9	60.5	7.2	13.1	2.4	0.9	57.9	63.1
Hong Kong SAR	539	79.9	6.7	79.9	3.6	9.0	0.5	0.3	77.9	82.0
Hungary	574	61.9	13.9	61.9	6.4	12.6	4.2	1.0	60.1	63.8
Iran, Islamic Rep. of	551	46.6	19.7	46.6	10.1	15.4	5.0	3.2	46.6	46.6
Italy	632	52.9	19.2	52.9	8.5	15.9	1.9	1.6	49.5	56.2
Japan	643	81.1	7.0	81.1	4.5	6.3	1.1	0.1	79.2	82.8
Kazakhstan	571	79.2	9.7	79.2	4.7	6.0	0.1	0.3	77.2	81.6
Kuwait	537	39.3	16.5	39.3	13.1	19.2	6.0	5.9	40.2	38.4
Latvia	561	70.1	11.3	70.1	4.7	11.3	1.7	0.9	65.0	75.4
Lithuania	559	61.7	15.3	61.7	6.7	15.0	1.3	0.0	55.9	66.6
Morocco	522	45.7	11.0	45.7	20.1	11.8	4.9	6.6	39.9	51.0
Netherlands	479	63.5	14.3	63.5	9.3	12.0	0.0	0.8	56.9	68.9
New Zealand	702	53.7	18.4	53.7	7.3	18.9	0.8	0.9	47.3	58.8
Norway	586	53.8	18.4	53.8	9.9	14.6	1.1	2.2	46.7	62.1
Qatar	986	39.5	19.5	39.5	15.7	18.9	2.9	3.5	41.5	37.4
Russian Federation	632	68.1	14.2	68.1	5.0	11.1	1.0	0.6	65.4	71.1
Scotland	558	50.4	18.9	50.4	8.3	19.4	1.8	1.2	46.9	53.7
Singapore	712	89.4	3.0	89.4	2.6	4.9	0.0	0.1	89.0	89.7
Slovak Republic	711	59.0	16.6	59.0	7.9	12.8	2.9	0.9	52.5	65.0
Slovenia	625	63.9	6.6	63.9	15.9	11.2	1.1	1.3	56.2	71.2
Sweden	672	63.5	14.3	63.5	7.1	12.4	0.5	2.1	56.6	70.0
Tunisia	590	34.0	10.8	34.0	15.4	17.3	13.0	9.5	36.0	32.1
Ukraine	610	58.4	13.6	58.4	8.1	15.8	2.8	1.3	59.1	57.8
United States	1138	59.1	15.0	59.1	6.9	17.7	0.6	0.6	55.2	63.0
Yemen	822	28.1	11.2	28.1	24.6	22.4	8.2	5.6	32.5	24.8
International Avg.	635	56.4	14.7	56.4	9.4	14.5	2.6	2.4	53.1	59.8
Alberta, Canada	571	69.5	13.1	69.5	6.5	9.3	0.6	1.0	64.0	74.8
British Columbia, Canada	582	65.2	15.7	65.2	5.3	12.4	0.6	0.9	59.9	70.2
Dubai, UAE	436	48.1	15.1	48.1	15.2	17.6	2.5	1.4	42.4	53.2
Massachusetts, US	248	66.0	13.6	66.0	4.7	14.8	0.3	0.4	63.5	68.7
Minnesota, US	257	66.2	13.3	66.2	7.8	11.7	0.0	1.0	58.1	73.2
Ontario, Canada	500	59.8	14.8	59.8	4.4	18.5	0.5	1.9	56.1	63.2
Quebec, Canada	562	51.6	12.6	51.6	12.7	21.6	0.8	0.7	47.1	55.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041100 - S10\_12)  
 Label: Reason for direction of river flow  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	571	27.5	36.6	27.5	12.4	9.0	7.5	7.0	25.4	29.8
Armenia	591	50.6	17.7	50.6	7.1	12.8	3.4	8.4	56.7	45.1
Australia	575	53.7	19.7	53.7	14.6	8.0	2.3	1.7	56.8	49.6
Austria	695	50.0	16.6	50.0	17.5	13.3	2.3	0.2	40.1	61.2
Chinese Taipei	589	76.9	11.1	76.9	2.8	8.6	0.5	0.0	76.6	77.2
Colombia	699	13.2	38.2	13.2	18.2	15.9	5.1	9.4	11.2	15.4
Czech Republic	609	45.8	20.0	45.8	25.5	6.0	1.4	1.2	43.2	48.4
Denmark	484	38.8	21.3	38.8	22.8	9.8	5.8	1.5	38.6	39.0
El Salvador	601	14.6	41.1	14.6	21.5	12.2	3.7	6.9	15.1	14.2
England	613	59.8	15.3	59.8	10.1	12.9	1.3	0.7	61.1	58.5
Georgia	588	43.6	19.9	43.6	22.2	7.0	3.7	3.6	40.1	47.5
Germany	742	56.0	12.0	56.0	14.7	14.6	1.7	0.9	48.0	63.9
Hong Kong SAR	539	66.5	15.7	66.5	8.4	8.0	1.1	0.3	66.0	67.0
Hungary	574	54.4	9.6	54.4	14.5	14.3	6.1	1.1	48.7	60.5
Iran, Islamic Rep. of	551	30.1	21.1	30.1	20.9	19.6	5.0	3.2	27.6	33.0
Italy	642	56.1	16.8	56.1	15.0	8.6	2.0	1.6	52.2	59.9
Japan	643	71.6	3.7	71.6	10.1	13.9	0.3	0.5	69.1	74.1
Kazakhstan	571	61.3	13.7	61.3	14.1	10.5	0.0	0.3	62.6	59.7
Kuwait	537	22.2	32.6	22.2	20.2	13.6	4.5	6.9	19.4	25.3
Latvia	561	56.1	11.2	56.1	17.4	13.2	1.0	1.1	46.9	65.7
Lithuania	559	39.7	16.5	39.7	29.5	11.7	2.6	0.0	36.0	42.7
Morocco	537	23.9	32.7	23.9	17.4	9.3	9.2	7.5	16.6	30.4
Netherlands	479	57.6	13.6	57.6	10.2	16.2	1.5	0.8	51.6	62.5
New Zealand	702	57.2	13.6	57.2	12.0	14.3	1.8	1.1	54.5	59.3
Norway	586	43.7	27.7	43.7	12.5	11.3	2.7	2.2	41.5	46.2
Qatar	986	20.4	41.6	20.4	21.6	7.6	5.2	3.6	21.7	19.1
Russian Federation	632	53.5	12.3	53.5	21.7	10.4	1.5	0.6	55.1	51.7
Scotland	558	48.6	19.9	48.6	14.4	14.1	1.5	1.6	52.6	44.8
Singapore	712	58.2	15.6	58.2	8.3	17.5	0.3	0.1	57.3	59.0
Slovak Republic	711	49.4	18.8	49.4	17.7	11.5	1.8	0.9	44.7	53.8
Slovenia	625	41.3	16.6	41.3	14.8	22.8	3.2	1.3	37.5	45.0
Sweden	675	61.5	13.3	61.5	8.0	11.8	3.5	2.1	59.4	63.4
Tunisia	590	18.8	30.1	18.8	17.6	10.1	11.4	12.0	17.1	20.4
Ukraine	610	43.7	17.0	43.7	31.2	4.9	1.9	1.3	39.4	47.6
United States	1138	53.2	23.5	53.2	13.3	7.8	1.5	0.8	51.6	54.8
Yemen	822	23.4	26.9	23.4	24.6	12.8	5.4	6.9	24.2	22.8
International Avg.	636	45.6	20.4	45.6	16.2	11.8	3.2	2.8	43.5	47.7
Alberta, Canada	571	62.5	16.4	62.5	10.3	7.6	2.2	1.0	58.8	66.0
British Columbia, Canada	582	52.9	23.0	52.9	11.6	7.7	3.7	1.1	48.7	56.7
Dubai, UAE	436	30.3	34.2	30.3	17.7	13.7	2.7	1.4	28.8	31.7
Massachusetts, US	248	67.4	15.0	67.4	5.4	10.6	1.1	0.4	62.2	73.0
Minnesota, US	257	65.9	21.6	65.9	4.7	6.8	0.1	1.0	59.7	71.3
Ontario, Canada	500	53.9	21.9	53.9	10.7	10.6	1.0	1.9	46.9	60.2
Quebec, Canada	562	43.3	26.9	43.3	14.8	11.8	2.5	0.7	41.0	45.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041092 - S10\_13)  
 Label: Drinking water comes from  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	36.1	23.3	15.0	12.3	36.1	3.5	9.7	36.0	36.4
Armenia	590	38.9	30.3	8.4	10.0	38.9	2.4	10.0	41.2	36.8
Australia	575	57.8	17.4	12.5	8.2	57.8	1.4	2.7	59.5	55.4
Austria	695	66.4	24.1	5.2	2.8	66.4	0.7	0.8	65.3	67.7
Chinese Taipei	589	69.2	17.0	9.9	3.8	69.2	0.0	0.1	71.6	67.0
Colombia	699	45.8	16.6	13.0	7.9	45.8	3.9	12.9	43.4	48.5
Czech Republic	609	77.0	14.3	4.0	2.7	77.0	0.7	1.3	75.3	78.6
Denmark	482	59.1	24.9	6.1	5.5	59.1	1.6	2.7	58.1	60.2
El Salvador	601	13.2	38.0	28.1	9.5	13.2	3.5	7.7	14.9	11.9
England	613	71.8	10.7	9.5	6.2	71.8	0.6	1.1	71.2	72.4
Georgia	588	42.1	31.8	11.7	7.8	42.1	2.2	4.4	42.0	42.3
Germany	742	64.7	28.1	2.0	2.6	64.7	1.0	1.5	63.5	65.9
Hong Kong SAR	539	74.2	7.9	9.6	7.3	74.2	0.2	0.8	74.6	73.8
Hungary	574	68.2	16.1	6.2	4.1	68.2	1.4	4.1	61.0	75.8
Iran, Islamic Rep. of	551	55.7	12.9	9.9	14.5	55.7	2.2	4.8	57.9	53.2
Italy	645	48.5	25.3	16.6	6.3	48.5	1.1	2.2	46.7	50.2
Japan	643	83.2	5.5	6.2	3.8	83.2	0.8	0.5	88.2	78.4
Kazakhstan	571	36.4	42.6	11.4	9.2	36.4	0.2	0.3	34.6	38.5
Kuwait	537	51.3	9.8	17.1	11.2	51.3	2.1	8.5	58.3	43.7
Latvia	561	62.5	30.1	4.0	1.5	62.5	0.9	1.1	63.2	61.7
Lithuania	559	31.7	57.0	6.6	3.3	31.7	1.2	0.2	32.8	30.8
Morocco	527	34.3	17.8	17.4	14.7	34.3	3.0	12.8	27.8	39.5
Netherlands	479	68.8	12.9	10.5	6.3	68.8	0.6	1.0	68.7	68.9
New Zealand	702	58.8	15.0	12.5	11.8	58.8	0.8	1.1	62.8	55.5
Norway	586	54.6	11.1	13.8	15.6	54.6	1.7	3.3	51.8	57.9
Qatar	986	43.5	14.4	20.5	12.8	43.5	2.3	6.4	44.1	42.9
Russian Federation	632	75.5	9.3	5.9	8.0	75.5	0.3	0.9	78.6	72.1
Scotland	558	63.0	13.2	11.1	9.6	63.0	0.8	2.3	60.1	65.6
Singapore	712	71.8	9.2	10.0	9.0	71.8	0.0	0.1	73.5	70.2
Slovak Republic	711	69.3	19.4	6.0	3.4	69.3	0.5	1.4	68.2	70.4
Slovenia	625	67.2	21.5	5.6	3.2	67.2	0.3	2.2	65.5	68.9
Sweden	674	66.0	13.0	3.6	13.4	66.0	0.3	3.7	68.4	63.7
Tunisia	590	28.1	13.3	15.9	18.7	28.1	9.2	14.8	34.2	22.4
Ukraine	610	39.0	37.5	11.5	9.0	39.0	1.7	1.3	39.5	38.4
United States	1138	66.9	11.8	9.5	9.4	66.9	1.2	1.3	68.9	64.9
Yemen	822	29.1	15.2	19.4	23.6	29.1	4.7	8.0	28.6	29.4
International Avg.	635	55.3	20.0	10.7	8.6	55.3	1.6	3.8	55.6	55.0
Alberta, Canada	571	59.3	13.0	15.1	9.8	59.3	1.0	1.8	53.9	64.5
British Columbia, Canada	582	65.3	11.0	10.9	8.0	65.3	1.8	2.9	62.9	67.5
Dubai, UAE	436	55.9	20.3	9.8	10.5	55.9	1.2	2.3	52.3	59.2
Massachusetts, US	248	66.2	9.0	10.8	12.2	66.2	1.4	0.4	61.4	71.4
Minnesota, US	257	73.8	11.5	6.4	6.3	73.8	0.9	1.0	71.7	75.7
Ontario, Canada	500	60.7	12.4	10.5	12.5	60.7	1.1	2.9	62.5	59.0
Quebec, Canada	562	54.2	18.0	14.7	9.4	54.2	1.9	1.7	48.1	59.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Knowing (S031254 - S11\_01)  
 Label: Animal with young and adult forms  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	572	38.6	15.4	38.6	17.4	20.0	5.3	3.3	40.2	36.7
Armenia	550	57.8	14.9	57.8	10.0	12.2	5.1	0.0	57.4	58.3
Australia	582	50.3	19.9	50.3	12.4	15.9	1.5	0.0	48.1	52.9
Austria	694	52.2	25.5	52.2	8.5	12.1	1.7	0.0	50.3	54.1
Chinese Taipei	591	83.0	5.0	83.0	7.0	3.8	1.3	0.0	85.1	81.1
Colombia	681	53.8	13.6	53.8	11.6	13.1	3.2	4.7	52.2	55.3
Czech Republic	602	71.9	10.4	71.9	7.1	5.9	4.6	0.0	75.7	68.5
Denmark	496	63.9	13.5	63.9	10.8	8.6	2.5	0.6	58.0	70.0
El Salvador	585	53.7	10.7	53.7	11.3	19.0	2.6	2.7	55.0	52.5
England	601	52.9	20.9	52.9	13.8	11.5	0.9	0.0	53.1	52.7
Georgia	590	55.0	15.1	55.0	18.0	8.0	3.6	0.4	50.4	59.1
Germany	727	49.0	26.9	49.0	8.8	13.4	1.9	0.0	47.6	50.6
Hong Kong SAR	535	71.0	18.1	71.0	7.7	2.8	0.4	0.0	69.9	72.2
Hungary	572	76.0	9.8	76.0	8.3	2.7	2.4	0.8	75.9	76.0
Iran, Islamic Rep. of	554	55.6	7.3	55.6	21.6	12.5	2.0	0.8	50.1	61.4
Italy	638	81.7	7.5	81.7	6.4	3.2	1.0	0.2	82.0	81.4
Japan	648	80.8	6.5	80.8	9.5	2.5	0.7	0.0	78.6	83.0
Kazakhstan	573	85.5	4.8	85.5	4.8	5.0	0.0	0.0	85.8	85.2
Kuwait	533	35.6	18.2	35.6	20.9	19.8	4.6	1.0	31.6	40.1
Latvia	568	69.6	6.0	69.6	17.7	4.7	2.0	0.0	69.3	69.9
Lithuania	565	47.4	22.9	47.4	15.0	13.0	1.3	0.3	47.6	47.3
Morocco	529	40.1	13.2	40.1	23.2	16.6	5.8	1.1	38.8	41.2
Netherlands	473	43.2	33.7	43.2	16.1	5.5	1.2	0.2	45.3	41.2
New Zealand	703	53.1	18.7	53.1	12.1	15.3	0.8	0.1	46.3	58.5
Norway	594	50.9	23.7	50.9	14.9	8.7	1.1	0.7	48.6	53.8
Qatar	986	28.4	21.2	28.4	22.1	22.3	5.1	0.9	25.1	31.9
Russian Federation	632	73.0	7.1	73.0	10.0	8.7	1.2	0.0	70.6	75.7
Scotland	565	51.4	23.2	51.4	12.6	11.8	0.8	0.3	50.6	52.1
Singapore	728	71.4	14.1	71.4	8.3	6.1	0.1	0.0	70.6	72.2
Slovak Republic	706	72.5	8.3	72.5	9.5	7.5	1.9	0.3	72.1	72.9
Slovenia	631	72.3	12.5	72.3	5.7	7.1	1.6	0.8	70.6	74.0
Sweden	668	52.4	27.4	52.4	10.7	5.6	2.9	0.9	58.2	47.5
Tunisia	584	22.6	10.1	22.6	23.7	22.7	16.6	4.3	20.6	24.4
Ukraine	618	70.2	9.1	70.2	10.8	6.9	2.7	0.3	71.9	68.3
United States	1131	50.0	23.9	50.0	14.0	10.7	1.2	0.2	48.6	51.5
Yemen	820	33.5	12.4	33.5	23.2	22.0	6.9	2.0	31.7	34.8
International Avg.	634	57.5	15.3	57.5	12.9	10.7	2.7	0.7	56.5	58.6
Alberta, Canada	572	56.4	19.1	56.4	13.3	10.0	1.1	0.0	53.8	58.9
British Columbia, Canada	588	53.7	17.1	53.7	16.1	10.2	2.6	0.4	57.3	50.4
Dubai, UAE	455	46.5	18.8	46.5	15.4	15.1	4.2	0.0	43.3	49.3
Massachusetts, US	258	56.4	23.8	56.4	9.1	8.9	1.8	0.0	57.1	55.5
Minnesota, US	254	54.7	22.8	54.7	11.4	10.6	0.5	0.0	48.1	62.3
Ontario, Canada	487	49.0	26.2	49.0	12.8	10.7	0.6	0.8	46.3	51.6
Quebec, Canada	563	51.8	20.8	51.8	13.7	10.9	2.5	0.2	51.9	51.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S031266 - S11\_02)  
 Label: Only Siberian tigers left are female  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	24.2	19.2	22.4	20.5	24.2	9.0	4.7	20.8	28.1
Armenia	552	58.1	14.0	8.1	9.3	58.1	10.4	0.0	58.4	57.8
Australia	582	63.2	14.3	13.1	6.8	63.2	2.6	0.0	65.0	61.0
Austria	694	56.0	20.1	14.7	5.1	56.0	3.9	0.2	50.5	61.7
Chinese Taipei	591	56.0	22.2	11.7	8.9	56.0	1.1	0.0	59.6	52.9
Colombia	679	33.9	25.9	14.6	14.8	33.9	5.6	5.3	33.2	34.6
Czech Republic	602	51.7	24.9	8.1	11.5	51.7	3.7	0.1	54.3	49.3
Denmark	496	65.2	11.8	8.2	8.7	65.2	5.3	0.7	66.9	63.4
El Salvador	585	41.1	27.6	10.9	12.5	41.1	4.8	3.0	39.6	42.6
England	601	65.2	16.2	12.1	5.0	65.2	1.5	0.0	70.2	60.4
Georgia	590	37.5	30.9	14.0	8.4	37.5	8.1	1.1	37.0	38.0
Germany	727	61.2	21.8	8.5	4.4	61.2	3.8	0.4	61.9	60.3
Hong Kong SAR	535	68.5	11.7	9.1	9.8	68.5	0.9	0.0	69.3	67.8
Hungary	572	72.8	7.3	10.5	6.2	72.8	2.3	0.9	70.1	75.3
Iran, Islamic Rep. of	554	31.1	19.9	22.1	18.3	31.1	7.6	1.0	35.0	26.9
Italy	640	57.9	25.0	8.4	5.6	57.9	2.8	0.2	55.7	60.0
Japan	648	60.3	20.2	12.4	6.6	60.3	0.5	0.0	59.6	61.0
Kazakhstan	573	68.3	16.7	7.0	7.7	68.3	0.3	0.0	69.9	67.0
Kuwait	533	25.3	13.2	24.8	23.2	25.3	12.4	1.2	27.4	22.9
Latvia	568	67.9	13.1	12.2	5.8	67.9	1.0	0.0	68.2	67.6
Lithuania	565	67.4	23.1	3.8	3.9	67.4	1.5	0.3	69.3	65.5
Morocco	536	26.5	13.4	20.5	25.4	26.5	12.7	1.5	27.8	25.7
Netherlands	473	67.2	19.1	7.1	4.8	67.2	1.6	0.2	69.7	64.9
New Zealand	703	56.7	15.4	13.9	12.4	56.7	1.5	0.1	58.3	55.4
Norway	594	55.9	17.3	12.6	10.4	55.9	2.9	0.8	58.4	52.8
Qatar	986	15.1	23.5	28.9	22.7	15.1	8.7	1.0	15.1	15.1
Russian Federation	632	75.1	13.4	5.4	4.4	75.1	1.6	0.0	76.7	73.3
Scotland	565	59.1	15.3	15.6	8.2	59.1	1.5	0.3	58.9	59.3
Singapore	728	66.9	15.4	10.9	6.7	66.9	0.1	0.0	67.2	66.6
Slovak Republic	706	73.5	11.0	6.5	6.6	73.5	2.1	0.4	75.8	71.2
Slovenia	631	66.3	12.1	10.4	7.5	66.3	2.9	0.8	65.1	67.4
Sweden	669	71.2	13.9	9.6	3.2	71.2	1.2	0.9	73.3	69.4
Tunisia	584	24.9	8.7	17.0	26.7	24.9	18.3	4.5	25.8	24.1
Ukraine	618	62.1	15.1	8.5	10.2	62.1	3.9	0.3	62.4	61.8
United States	1131	58.4	18.6	12.3	8.2	58.4	2.2	0.2	58.8	58.1
Yemen	820	19.5	13.1	22.7	32.1	19.5	10.5	2.1	21.3	18.2
International Avg.	635	53.6	17.3	12.7	10.9	53.6	4.5	0.9	54.3	53.0
Alberta, Canada	572	59.5	20.3	12.9	5.8	59.5	1.5	0.0	59.3	59.7
British Columbia, Canada	588	63.1	14.5	11.8	7.6	63.1	2.5	0.4	59.7	66.3
Dubai, UAE	455	34.4	16.6	20.3	20.9	34.4	7.4	0.4	35.0	33.9
Massachusetts, US	258	69.3	14.2	11.4	3.6	69.3	1.5	0.0	65.2	73.9
Minnesota, US	254	66.7	16.0	12.2	4.3	66.7	0.7	0.0	61.3	72.9
Ontario, Canada	487	59.3	18.7	12.1	7.9	59.3	1.2	0.8	58.7	59.9
Quebec, Canada	563	66.8	15.1	10.7	4.4	66.8	2.8	0.2	68.3	65.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031233 - S11\_03)  
 Label: Main features of four animals shown  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT	NOT	V1	1.GIRL	2.BOY
						TED	REACH		%Right	%Right
Algeria	603	26.2	22.5	18.7	19.4	8.3	4.9	26.2	26.9	25.4
Armenia	554	54.1	14.1	12.6	8.1	11.1	0.0	54.1	54.7	53.4
Australia	582	68.7	12.9	11.4	5.2	1.5	0.3	68.7	72.6	64.0
Austria	694	64.1	13.0	15.4	6.0	1.1	0.3	64.1	63.0	65.4
Chinese Taipei	591	66.0	3.1	29.1	1.4	0.4	0.0	66.0	68.7	63.6
Colombia	681	32.5	30.4	14.1	13.9	3.1	6.0	32.5	31.3	33.5
Czech Republic	602	64.8	26.1	6.1	2.2	0.7	0.1	64.8	66.7	63.1
Denmark	495	70.1	11.0	13.7	3.1	1.3	0.7	70.1	72.7	67.5
El Salvador	585	34.5	27.7	13.8	16.5	3.4	4.1	34.5	32.2	36.8
England	601	65.1	17.0	12.5	4.8	0.5	0.0	65.1	63.2	67.0
Georgia	590	33.3	17.6	26.1	13.6	7.5	1.9	33.3	34.9	32.0
Germany	727	66.8	13.5	11.4	4.8	2.8	0.7	66.8	64.9	68.9
Hong Kong SAR	535	71.3	6.3	19.5	2.8	0.2	0.0	71.3	73.5	68.9
Hungary	572	74.4	10.8	9.8	3.7	0.3	1.0	74.4	74.8	74.0
Iran, Islamic Rep. of	554	45.4	24.6	16.1	9.1	3.6	1.2	45.4	45.6	45.2
Italy	641	75.8	5.7	14.0	2.4	1.8	0.2	75.8	75.4	76.2
Japan	648	69.3	3.0	26.9	0.7	0.1	0.1	69.3	70.8	67.7
Kazakhstan	573	58.9	20.0	11.6	7.9	1.6	0.0	58.9	59.3	58.5
Kuwait	533	24.3	24.4	24.8	18.3	7.1	1.2	24.3	28.4	19.5
Latvia	568	72.2	12.9	10.9	3.2	0.9	0.0	72.2	71.0	73.3
Lithuania	565	58.6	19.9	14.1	6.2	0.8	0.4	58.6	56.0	61.2
Morocco	551	9.8	26.7	21.9	22.9	15.7	3.2	9.8	11.2	8.4
Netherlands	473	58.2	19.5	16.5	5.0	0.6	0.2	58.2	56.9	59.5
New Zealand	703	62.2	15.5	14.8	5.5	1.8	0.1	62.2	61.5	62.8
Norway	594	60.9	14.0	18.7	3.9	1.5	0.9	60.9	60.8	61.1
Qatar	986	20.5	29.6	18.6	21.3	8.6	1.3	20.5	22.5	18.4
Russian Federation	632	64.2	16.3	10.8	6.5	1.5	0.6	64.2	62.8	65.7
Scotland	565	63.5	17.3	11.9	7.0	0.0	0.3	63.5	64.0	62.9
Singapore	728	80.1	7.7	9.7	2.2	0.3	0.0	80.1	79.8	80.4
Slovak Republic	706	67.2	17.4	8.3	4.5	2.0	0.6	67.2	71.1	63.3
Slovenia	631	44.0	32.2	9.1	12.7	1.1	0.8	44.0	39.2	48.6
Sweden	669	66.1	10.6	18.2	3.4	0.6	1.1	66.1	72.8	60.4
Tunisia	584	22.3	26.1	14.4	23.2	8.9	5.2	22.3	25.6	19.3
Ukraine	618	57.7	16.6	15.5	6.9	2.8	0.4	57.7	59.8	55.4
United States	1131	65.5	18.4	9.9	4.9	0.9	0.4	65.5	65.6	65.4
Yemen	821	9.4	25.5	11.3	39.0	12.7	2.2	9.4	11.3	7.9
International Avg.	636	54.1	17.5	15.1	9.0	3.3	1.1	54.1	54.8	53.5
Alberta, Canada	572	62.3	14.7	15.5	5.3	1.9	0.2	62.3	56.5	67.9
British Columbia, Canada	588	63.6	12.0	15.4	6.2	1.8	1.0	63.6	65.4	62.0
Dubai, UAE	455	42.1	24.6	19.6	9.8	3.1	0.9	42.1	41.3	42.7
Massachusetts, US	258	73.1	13.7	9.6	3.2	0.3	0.0	73.1	67.7	79.3
Minnesota, US	254	69.1	12.8	14.4	3.1	0.6	0.0	69.1	70.4	67.5
Ontario, Canada	487	55.1	18.7	13.8	9.7	1.9	0.8	55.1	52.0	58.1
Quebec, Canada	563	67.1	14.6	12.0	5.0	1.0	0.2	67.1	70.8	63.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031204 - S11\_04)  
 Label: Coarse and fine salt added to water  
 Type: CR Key: -

COUNTRY	N	10	70	71	72	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	603	18.9	35.3	8.5	10.6	15.8	4.7	6.3	18.9	20.1	17.7
Armenia	554	32.6	38.6	3.1	1.9	20.0	4.0	0.0	32.6	41.4	23.7
Australia	582	49.5	24.8	13.3	10.5	0.5	1.0	0.3	49.5	51.6	47.1
Austria	694	37.6	39.4	9.3	11.0	0.3	2.1	0.3	37.6	40.0	35.1
Chinese Taipei	591	59.6	27.5	5.3	0.0	7.4	0.2	0.0	59.6	68.3	52.0
Colombia	.	.	.	.	.	.	.	.	.	.	.
Czech Republic	602	33.9	41.8	8.0	13.5	0.9	1.7	0.1	33.9	38.5	29.7
Denmark	495	33.3	30.6	18.5	13.4	1.4	1.7	1.1	33.3	39.3	27.2
El Salvador	585	21.5	45.3	8.4	11.9	3.2	4.9	4.8	21.5	24.8	18.5
England	601	46.0	32.9	12.3	6.7	0.7	1.5	0.0	46.0	50.8	41.2
Georgia	590	8.3	61.8	7.9	8.2	4.7	6.6	2.4	8.3	10.0	6.8
Germany	727	48.9	33.4	6.3	8.5	0.5	1.3	1.1	48.9	53.5	44.0
Hong Kong SAR	535	48.8	32.3	6.4	11.1	1.2	0.3	0.0	48.8	54.9	42.4
Hungary	572	40.7	37.0	5.0	11.9	3.1	1.1	1.0	40.7	40.4	41.1
Iran, Islamic Rep. of	554	32.1	52.3	4.9	4.5	1.8	2.7	1.7	32.1	36.2	27.7
Italy	641	40.6	38.6	3.0	10.5	3.1	3.7	0.5	40.6	42.8	38.5
Japan	648	53.6	29.8	8.8	6.5	0.8	0.5	0.1	53.6	55.0	52.1
Kazakhstan	573	44.9	42.4	5.0	7.4	0.3	0.1	0.0	44.9	49.1	41.2
Kuwait	.	.	.	.	.	.	.	.	.	.	.
Latvia	568	58.0	24.5	8.2	8.3	0.7	0.3	0.0	58.0	62.6	54.0
Lithuania	565	47.3	33.0	6.2	12.3	0.5	0.2	0.4	47.3	54.4	40.1
Morocco	551	6.8	44.5	10.9	19.8	6.0	8.6	3.5	6.8	6.9	6.7
Netherlands	473	40.7	37.5	10.4	8.0	2.5	0.7	0.2	40.7	47.1	34.4
New Zealand	703	40.7	30.4	12.4	14.4	0.5	1.5	0.1	40.7	44.3	37.9
Norway	594	20.3	38.8	20.7	14.7	2.3	2.3	0.9	20.3	24.7	15.0
Qatar	986	4.9	64.1	15.4	8.7	1.3	3.7	1.8	4.9	7.5	2.2
Russian Federation	632	40.9	38.2	2.3	16.5	0.7	0.5	0.8	40.9	41.5	40.3
Scotland	565	31.3	36.5	12.6	13.4	3.7	2.2	0.3	31.3	38.0	24.4
Singapore	728	50.5	32.1	6.6	10.4	0.3	0.2	0.0	50.5	54.1	46.8
Slovak Republic	706	40.4	41.7	4.6	10.8	0.6	1.3	0.6	40.4	47.9	33.0
Slovenia	631	45.4	37.6	7.1	7.2	1.0	0.8	1.0	45.4	46.9	43.9
Sweden	669	35.0	30.4	18.6	12.2	1.3	1.3	1.3	35.0	38.5	31.9
Tunisia	584	11.7	54.0	5.3	7.3	11.6	4.5	5.5	11.7	13.0	10.6
Ukraine	618	23.2	55.4	3.3	14.6	1.9	0.7	0.8	23.2	27.1	18.9
United States	1131	53.6	23.1	8.8	10.7	2.1	1.0	0.6	53.6	57.2	50.0
Yemen	821	1.5	49.6	15.8	12.4	9.6	7.9	3.1	1.5	1.8	1.3
International Avg.	637	35.4	38.7	8.9	10.3	3.3	2.2	1.2	35.4	39.1	31.7
Alberta, Canada	572	52.0	22.8	12.2	10.0	0.9	1.9	0.2	52.0	58.5	45.7
British Columbia, Canada	588	49.1	21.4	13.7	10.3	2.0	2.5	1.0	49.1	54.0	44.7
Dubai, UAE	455	31.0	41.0	9.5	11.4	1.9	4.0	1.1	31.0	34.3	28.1
Massachusetts, US	258	62.5	18.5	5.0	11.1	1.7	1.2	0.0	62.5	63.8	61.0
Minnesota, US	254	65.3	15.5	7.8	10.5	0.4	0.5	0.0	65.3	69.2	60.8
Ontario, Canada	487	52.7	21.6	9.8	10.8	1.3	2.6	1.1	52.7	55.7	49.8
Quebec, Canada	563	39.5	26.0	12.7	17.3	2.2	2.1	0.2	39.5	41.5	37.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031273 - S11\_05)  
 Label: Metal spoon and wooden spoon  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	576	21.1	28.5	21.1	23.2	11.3	7.3	8.7	20.3	22.0
Armenia	553	46.9	15.4	46.9	9.2	21.5	7.0	0.0	47.1	46.7
Australia	582	58.0	17.6	58.0	11.5	11.2	1.0	0.6	60.7	54.9
Austria	694	65.7	10.9	65.7	11.7	8.4	2.7	0.5	61.0	70.7
Chinese Taipei	591	55.6	22.9	55.6	12.1	8.8	0.6	0.0	54.0	57.0
Colombia	680	27.6	36.3	27.6	10.6	11.9	6.0	7.7	27.8	27.4
Czech Republic	602	44.7	32.7	44.7	9.1	11.3	1.7	0.5	42.7	46.6
Denmark	495	48.6	20.4	48.6	12.9	14.3	2.3	1.6	44.7	52.6
El Salvador	585	22.9	36.6	22.9	12.3	14.7	6.5	7.0	22.6	23.1
England	601	71.7	11.2	71.7	7.2	8.6	1.3	0.1	67.6	75.6
Georgia	590	29.9	31.9	29.9	11.5	18.2	4.4	4.1	27.0	32.4
Germany	727	63.5	9.8	63.5	12.9	9.7	2.9	1.2	62.1	64.9
Hong Kong SAR	535	85.2	4.9	85.2	6.3	3.3	0.3	0.0	85.0	85.4
Hungary	572	60.1	18.7	60.1	9.3	8.2	2.5	1.3	61.1	59.1
Iran, Islamic Rep. of	553	35.0	21.1	35.0	24.6	11.1	5.7	2.5	34.5	35.5
Italy	639	63.0	20.5	63.0	6.3	6.8	2.5	0.8	57.7	68.0
Japan	648	88.4	3.7	88.4	1.8	5.4	0.3	0.3	89.2	87.6
Kazakhstan	573	70.5	10.5	70.5	9.0	9.8	0.2	0.0	68.7	72.2
Kuwait	533	33.2	27.4	33.2	15.4	17.2	4.9	1.9	35.1	31.0
Latvia	568	52.8	23.0	52.8	8.9	13.9	1.3	0.1	50.5	54.7
Lithuania	565	50.5	29.7	50.5	6.6	11.3	1.4	0.4	51.0	50.0
Morocco	530	35.1	19.3	35.1	21.6	10.7	7.5	5.8	32.4	37.4
Netherlands	473	58.9	12.3	58.9	6.8	21.2	0.6	0.2	58.3	59.5
New Zealand	703	57.4	15.9	57.4	12.1	12.9	1.6	0.2	57.2	57.4
Norway	594	41.5	22.1	41.5	15.7	16.7	2.2	1.8	35.5	48.8
Qatar	986	32.4	30.5	32.4	16.6	13.5	4.4	2.6	33.6	31.1
Russian Federation	632	61.5	23.3	61.5	3.6	9.7	1.0	0.8	64.8	57.9
Scotland	565	55.4	19.5	55.4	11.6	12.8	0.2	0.6	54.1	56.7
Singapore	728	89.9	3.1	89.9	3.4	3.6	0.0	0.0	93.2	86.6
Slovak Republic	706	36.5	27.0	36.5	20.1	12.5	3.2	0.7	34.2	38.7
Slovenia	631	52.6	16.0	52.6	12.0	15.2	2.9	1.2	52.0	53.3
Sweden	669	59.6	10.1	59.6	16.6	11.5	0.7	1.4	58.0	61.0
Tunisia	584	37.9	17.1	37.9	13.1	6.3	18.8	6.8	37.2	38.6
Ukraine	618	48.0	23.9	48.0	8.1	16.8	2.3	1.0	44.0	52.4
United States	1131	68.1	11.4	68.1	11.5	7.4	1.0	0.6	69.1	67.0
Yemen	821	28.1	14.6	28.1	25.4	19.8	7.8	4.3	29.0	27.4
International Avg.	634	51.6	19.4	51.6	12.0	11.9	3.3	1.9	50.6	52.5
Alberta, Canada	572	62.8	13.9	62.8	9.0	11.5	2.0	0.8	61.6	64.0
British Columbia, Canada	588	60.9	12.0	60.9	12.6	11.7	1.6	1.2	59.8	61.9
Dubai, UAE	455	42.6	26.2	42.6	8.4	17.7	3.9	1.1	41.1	43.9
Massachusetts, US	258	77.6	6.9	77.6	9.8	4.3	1.1	0.4	76.6	78.7
Minnesota, US	254	71.1	12.7	71.1	8.3	6.1	1.7	0.0	68.1	74.6
Ontario, Canada	487	57.4	12.6	57.4	13.3	13.5	1.5	1.6	60.1	54.9
Quebec, Canada	563	39.3	27.6	39.3	11.0	19.4	2.2	0.5	37.4	41.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031299 - S11\_06)  
 Label: Sunlight made up of colors  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	604	10.6	12.5	0.9	0.2	37.0	28.4	10.4	24.2	26.3	21.9
Armenia	555	28.0	15.2	1.9	2.4	19.1	33.2	0.3	47.4	50.4	44.4
Australia	582	7.6	34.4	8.7	0.5	38.7	9.5	0.7	51.2	52.4	49.7
Austria	694	4.1	23.8	5.6	1.7	32.9	31.3	0.5	35.2	39.3	30.9
Chinese Taipei	591	5.9	19.3	3.5	0.3	48.6	22.4	0.0	29.0	31.3	27.0
Colombia	681	4.2	19.6	0.9	0.7	41.1	22.6	10.9	25.4	29.5	21.7
Czech Republic	602	2.2	26.2	4.5	1.0	35.9	29.6	0.7	33.9	34.9	32.9
Denmark	495	2.7	31.2	11.0	2.8	32.3	17.9	2.0	47.7	46.5	49.0
El Salvador	585	1.0	25.4	1.0	0.1	37.1	25.3	10.1	27.5	26.2	28.7
England	601	1.3	26.5	11.1	0.6	47.4	12.9	0.3	39.5	40.5	38.5
Georgia	590	3.4	22.2	3.8	1.0	19.6	44.9	5.2	30.3	34.9	26.3
Germany	727	6.2	31.4	9.1	1.1	27.3	23.4	1.5	47.9	48.3	47.4
Hong Kong SAR	535	5.2	45.6	1.1	3.0	40.7	4.4	0.0	54.9	51.4	58.6
Hungary	572	5.3	28.5	6.6	1.2	31.1	25.5	1.7	41.6	39.8	43.3
Iran, Islamic Rep. of	553	2.2	26.5	5.2	0.3	37.9	23.5	4.4	34.2	34.8	33.6
Italy	641	1.8	40.2	4.2	0.1	29.2	22.9	1.6	46.3	47.7	45.0
Japan	648	2.7	23.9	4.5	1.5	56.8	10.3	0.4	32.5	32.6	32.5
Kazakhstan	573	5.3	29.7	6.5	0.9	45.3	12.3	0.0	42.4	46.8	38.6
Kuwait	533	5.3	8.1	2.0	0.0	37.8	44.5	2.4	15.4	18.5	11.8
Latvia	568	0.4	47.5	9.7	0.2	29.4	12.6	0.1	57.9	64.9	51.6
Lithuania	565	3.1	17.3	17.7	1.1	26.4	33.8	0.6	39.2	44.6	33.8
Morocco	551	0.6	13.1	0.9	0.7	29.5	47.6	7.6	15.3	14.6	16.0
Netherlands	473	2.1	23.2	11.6	1.1	54.6	7.2	0.2	38.0	37.8	38.2
New Zealand	703	4.5	27.8	6.9	1.1	47.0	12.4	0.4	40.2	41.4	39.3
Norway	594	1.6	25.1	4.4	2.8	43.9	20.0	2.3	33.9	34.9	32.5
Qatar	986	0.3	9.5	2.1	0.0	42.7	42.1	3.3	12.0	15.8	8.0
Russian Federation	632	4.6	24.4	10.5	0.1	38.3	21.4	0.8	39.6	39.3	39.8
Scotland	565	1.3	28.8	7.7	1.9	42.4	17.3	0.6	39.7	39.9	39.5
Singapore	728	3.1	57.5	3.1	1.1	33.3	1.9	0.0	64.8	68.3	61.3
Slovak Republic	706	1.9	26.0	5.1	1.6	36.3	27.8	1.3	34.6	35.8	33.5
Slovenia	631	2.0	28.7	5.9	0.6	43.7	16.7	2.4	37.2	37.9	36.5
Sweden	669	4.5	32.8	8.6	0.5	34.4	17.5	1.7	46.5	48.4	44.8
Tunisia	584	4.7	11.4	1.3	0.9	38.2	33.3	10.2	18.3	17.8	18.8
Ukraine	618	0.6	14.6	7.8	0.1	32.8	42.6	1.5	23.1	23.8	22.3
United States	1131	4.5	28.9	12.5	1.0	46.6	5.8	0.8	46.9	48.1	45.6
Yemen	821	0.1	2.4	0.7	0.1	41.3	49.7	5.7	3.3	4.6	2.2
International Avg.	636	4.0	25.3	5.8	1.0	37.7	23.7	2.6	36.0	37.5	34.6
Alberta, Canada	572	14.1	32.4	8.2	2.7	31.5	10.2	0.8	57.5	60.8	54.2
British Columbia, Canada	588	9.0	30.7	6.6	4.4	36.8	11.3	1.2	50.7	50.9	50.6
Dubai, UAE	455	6.1	21.7	6.0	0.8	40.4	23.4	1.5	34.7	43.3	27.2
Massachusetts, US	258	3.8	30.2	19.9	1.0	40.2	4.4	0.4	55.0	60.2	49.0
Minnesota, US	254	2.9	23.7	20.4	2.8	45.5	4.7	0.0	49.8	52.1	47.2
Ontario, Canada	487	10.3	31.9	7.5	3.1	35.2	10.3	1.6	52.9	55.7	50.2
Quebec, Canada	563	2.4	19.6	8.5	1.1	49.8	18.2	0.5	31.6	31.7	31.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031281 - S11\_07)  
 Label: Why birds sit on their eggs  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	561	40.3	25.6	40.3	14.1	5.5	3.0	11.5	37.7	43.2
Armenia	550	78.3	9.2	78.3	3.7	2.8	5.4	0.5	77.9	78.8
Australia	582	95.3	1.4	95.3	1.2	0.5	1.0	0.7	97.4	92.8
Austria	694	93.6	2.1	93.6	0.9	0.5	2.2	0.7	93.6	93.7
Chinese Taipei	591	82.0	13.2	82.0	3.3	0.7	0.9	0.0	81.2	82.6
Colombia	681	62.5	10.4	62.5	4.3	7.2	2.8	12.8	60.4	64.3
Czech Republic	602	94.1	2.9	94.1	1.2	0.1	0.8	1.0	93.9	94.3
Denmark	495	92.3	2.0	92.3	2.5	0.7	0.5	2.0	94.9	89.7
El Salvador	585	62.5	9.4	62.5	4.2	9.5	3.9	10.5	59.1	65.7
England	601	91.6	2.9	91.6	2.4	0.8	2.1	0.3	94.0	89.3
Georgia	590	73.8	7.8	73.8	4.5	5.8	2.8	5.2	74.6	73.1
Germany	727	93.9	1.0	93.9	0.9	0.3	2.4	1.6	95.4	92.2
Hong Kong SAR	535	83.3	7.3	83.3	4.5	4.3	0.6	0.0	83.3	83.3
Hungary	572	92.0	2.1	92.0	1.2	1.6	1.2	1.9	93.2	90.8
Iran, Islamic Rep. of	552	64.4	14.6	64.4	8.4	5.0	2.7	4.9	67.1	61.6
Italy	639	86.8	5.3	86.8	3.3	1.7	1.2	1.8	85.4	88.0
Japan	648	85.9	3.8	85.9	5.4	3.8	0.6	0.6	85.7	86.1
Kazakhstan	573	88.1	7.8	88.1	2.7	1.1	0.3	0.0	86.3	89.7
Kuwait	533	54.0	19.5	54.0	12.4	6.3	5.2	2.6	59.5	47.7
Latvia	568	95.2	1.3	95.2	1.8	0.2	1.3	0.1	96.5	94.1
Lithuania	565	79.5	5.3	79.5	6.8	2.4	4.9	1.0	78.6	80.5
Morocco	526	36.0	22.3	36.0	15.9	11.7	5.9	8.3	29.4	41.1
Netherlands	473	96.0	1.4	96.0	1.3	0.4	0.6	0.2	96.9	95.2
New Zealand	703	92.2	2.1	92.2	2.5	1.0	1.8	0.4	93.3	91.3
Norway	594	89.0	2.3	89.0	2.2	1.2	2.4	3.0	89.5	88.4
Qatar	986	46.1	21.7	46.1	15.4	8.7	4.3	3.7	48.5	43.7
Russian Federation	632	88.0	5.4	88.0	2.0	1.9	1.7	0.9	88.1	87.9
Scotland	565	88.3	3.3	88.3	4.9	2.0	0.8	0.7	88.8	87.7
Singapore	728	92.8	2.7	92.8	2.2	2.1	0.1	0.0	92.0	93.6
Slovak Republic	706	86.3	3.7	86.3	4.8	1.3	2.3	1.5	85.1	87.6
Slovenia	631	88.6	2.9	88.6	2.4	1.5	1.9	2.8	89.6	87.6
Sweden	669	92.7	2.8	92.7	0.7	1.2	1.0	1.7	95.5	90.2
Tunisia	584	39.7	14.6	39.7	12.5	5.0	17.7	10.5	43.5	36.3
Ukraine	618	85.8	7.3	85.8	2.7	0.5	2.1	1.7	87.4	84.0
United States	1131	89.8	2.5	89.8	3.8	1.1	1.9	0.9	90.6	89.1
Yemen	821	26.7	22.7	26.7	22.1	14.6	7.9	6.0	29.0	25.0
International Avg.	634	78.5	7.6	78.5	5.1	3.2	2.7	2.8	79.0	78.1
Alberta, Canada	572	92.9	2.3	92.9	1.5	0.1	2.0	1.1	94.7	91.2
British Columbia, Canada	588	92.2	0.9	92.2	2.6	0.9	2.1	1.3	93.4	91.1
Dubai, UAE	455	70.3	11.2	70.3	6.7	5.4	4.8	1.5	74.0	67.0
Massachusetts, US	258	94.2	2.1	94.2	1.4	0.3	1.6	0.4	91.9	96.8
Minnesota, US	254	95.0	2.2	95.0	1.2	0.0	1.6	0.0	94.8	95.2
Ontario, Canada	487	90.1	2.4	90.1	2.3	1.7	1.7	1.8	90.3	89.9
Quebec, Canada	563	88.4	4.1	88.4	3.5	0.5	3.0	0.5	88.8	88.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031077 - S11\_08)  
 Label: Object in circuit for bulb to glow  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	562	41.3	41.3	6.7	29.4	7.3	2.8	12.5	37.3	45.9
Armenia	550	66.7	66.7	6.6	7.6	8.9	9.7	0.5	70.3	63.1
Australia	582	71.4	71.4	4.7	17.3	3.8	2.1	0.7	64.1	80.1
Austria	694	86.5	86.5	1.9	6.8	1.6	2.4	0.7	85.1	87.9
Chinese Taipei	591	92.9	92.9	2.1	1.8	2.9	0.2	0.0	92.7	93.0
Colombia	681	55.1	55.1	5.1	15.1	8.8	2.8	13.1	51.0	58.8
Czech Republic	602	74.2	74.2	3.5	13.5	4.4	3.4	1.0	69.1	78.9
Denmark	493	67.8	67.8	6.9	18.7	1.7	2.7	2.1	63.5	72.2
El Salvador	585	51.2	51.2	5.8	20.9	7.0	4.2	10.8	45.2	57.0
England	601	83.7	83.7	3.7	9.7	1.6	1.1	0.3	83.2	84.2
Georgia	590	47.4	47.4	4.5	26.9	6.7	9.1	5.3	47.2	47.5
Germany	727	86.0	86.0	2.0	7.1	1.3	1.6	2.0	84.3	87.9
Hong Kong SAR	535	82.7	82.7	2.5	9.4	4.5	0.9	0.0	78.4	87.2
Hungary	572	70.6	70.6	2.9	13.7	3.9	6.5	2.4	65.5	75.2
Iran, Islamic Rep. of	553	79.1	79.1	2.6	4.6	4.6	3.6	5.5	80.0	78.0
Italy	640	66.7	66.7	1.5	21.5	3.8	4.7	1.8	62.8	70.4
Japan	648	95.3	95.3	2.4	1.2	0.0	0.5	0.6	95.9	94.8
Kazakhstan	573	72.9	72.9	6.7	17.6	2.8	0.1	0.0	69.6	75.8
Kuwait	533	32.0	32.0	8.9	47.9	4.7	3.8	2.7	29.9	34.5
Latvia	568	70.9	70.9	2.7	21.7	3.2	1.3	0.2	61.8	79.0
Lithuania	565	69.7	69.7	2.7	16.5	7.2	2.9	1.0	63.6	75.8
Morocco	535	40.3	40.3	7.4	34.1	4.4	5.2	8.7	37.7	42.5
Netherlands	473	60.5	60.5	4.7	25.9	7.7	1.0	0.2	58.2	62.7
New Zealand	703	78.5	78.5	3.6	12.3	2.9	2.0	0.6	75.8	80.8
Norway	594	57.5	57.5	6.4	22.2	6.9	3.5	3.4	53.9	62.0
Qatar	986	25.2	25.2	20.7	37.8	9.6	2.9	3.8	28.0	22.3
Russian Federation	632	72.7	72.7	2.9	14.6	7.5	1.3	0.9	71.4	74.3
Scotland	565	69.2	69.2	2.8	21.4	4.5	1.4	0.7	65.1	73.4
Singapore	728	92.7	92.7	1.9	3.2	2.0	0.2	0.0	91.6	93.8
Slovak Republic	706	82.7	82.7	3.2	5.2	3.0	3.8	2.1	78.8	86.6
Slovenia	631	75.2	75.2	5.7	12.1	2.9	1.2	2.8	70.3	79.9
Sweden	669	70.9	70.9	2.1	20.4	3.2	1.7	1.7	70.8	71.0
Tunisia	584	40.9	40.9	12.0	17.8	8.2	9.9	11.2	41.5	40.4
Ukraine	618	66.9	66.9	3.3	21.7	3.9	2.5	1.7	60.7	73.8
United States	1131	78.8	78.8	1.6	12.8	3.0	2.7	1.1	77.0	80.6
Yemen	821	35.3	35.3	19.2	21.4	13.5	4.3	6.2	34.7	35.8
International Avg.	634	67.0	67.0	5.1	17.0	4.8	3.1	3.0	64.3	69.6
Alberta, Canada	572	74.2	74.2	1.2	18.1	2.5	3.0	1.1	68.6	79.6
British Columbia, Canada	588	74.3	74.3	1.5	17.6	3.2	2.1	1.3	72.0	76.5
Dubai, UAE	455	63.1	63.1	9.1	14.4	6.9	5.0	1.5	64.1	62.2
Massachusetts, US	258	88.8	88.8	0.7	7.1	1.0	2.1	0.4	83.7	94.5
Minnesota, US	254	81.9	81.9	1.1	12.1	3.3	1.7	0.0	78.4	85.8
Ontario, Canada	487	75.2	75.2	1.5	14.5	4.7	1.9	2.1	74.5	75.9
Quebec, Canada	563	73.3	73.3	1.5	16.3	6.6	1.2	1.0	68.2	78.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Knowing (S031311 - S11\_09)  
 Label: Force that causes object to fall  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	31.2	13.6	31.2	19.8	19.5	2.8	13.0	25.9	37.3
Armenia	553	49.2	13.8	49.2	10.8	21.5	4.2	0.5	46.0	52.4
Australia	582	74.4	3.6	74.4	10.0	9.2	1.8	0.9	74.3	74.5
Austria	694	61.0	8.2	61.0	10.3	16.0	3.6	0.9	53.2	69.4
Chinese Taipei	591	78.8	6.4	78.8	3.8	11.0	0.0	0.0	74.2	82.8
Colombia	681	35.8	7.3	35.8	11.8	27.8	3.3	14.0	29.5	41.4
Czech Republic	602	44.9	27.1	44.9	9.3	14.1	2.8	1.7	37.0	52.0
Denmark	495	73.3	4.8	73.3	6.3	11.3	2.2	2.1	66.3	80.4
El Salvador	585	36.0	9.5	36.0	10.3	29.3	2.9	12.0	32.7	39.2
England	601	81.2	2.4	81.2	8.3	6.7	1.0	0.4	80.3	82.0
Georgia	590	32.8	12.7	32.8	11.0	33.9	2.8	6.8	25.6	39.1
Germany	727	59.2	9.0	59.2	9.6	16.7	3.3	2.2	51.0	68.0
Hong Kong SAR	535	78.5	3.8	78.5	5.8	11.3	0.6	0.0	72.6	84.7
Hungary	572	57.4	9.6	57.4	7.5	20.5	2.0	3.0	50.3	64.0
Iran, Islamic Rep. of	553	51.7	21.3	51.7	5.8	13.3	1.2	6.7	48.2	55.2
Italy	638	60.0	4.9	60.0	6.2	23.3	3.0	2.6	50.3	69.1
Japan	648	64.3	15.3	64.3	13.0	6.1	0.8	0.6	61.6	67.3
Kazakhstan	573	55.4	19.3	55.4	5.4	19.5	0.4	0.0	58.8	52.5
Kuwait	533	49.8	16.6	49.8	10.5	14.9	5.2	3.1	52.1	47.1
Latvia	568	56.2	11.7	56.2	7.5	21.0	3.5	0.2	49.1	62.5
Lithuania	564	26.8	34.4	26.8	12.0	23.0	2.0	1.7	25.6	28.1
Morocco	535	21.4	12.4	21.4	25.8	20.9	8.7	10.9	17.9	24.1
Netherlands	473	66.1	8.0	66.1	11.0	12.6	2.2	0.2	62.5	69.5
New Zealand	703	67.5	5.2	67.5	11.6	12.5	2.5	0.8	64.0	70.4
Norway	594	69.8	10.0	69.8	6.3	8.4	1.5	4.1	68.2	71.7
Qatar	986	27.2	25.8	27.2	19.6	18.5	4.9	4.0	26.7	27.6
Russian Federation	632	52.6	10.1	52.6	9.1	26.0	1.0	1.1	50.0	55.3
Scotland	565	64.8	2.0	64.8	10.8	18.6	2.9	1.0	61.3	68.3
Singapore	728	69.7	8.3	69.7	9.9	11.8	0.3	0.0	65.6	73.7
Slovak Republic	706	79.8	6.5	79.8	3.1	7.0	0.8	2.8	79.6	80.0
Slovenia	631	54.8	15.6	54.8	8.8	15.8	1.7	3.2	52.3	57.2
Sweden	669	70.2	7.9	70.2	9.2	8.9	2.0	1.8	61.6	77.5
Tunisia	584	33.6	9.6	33.6	16.7	16.7	11.2	12.3	30.1	36.7
Ukraine	618	51.9	10.4	51.9	8.8	25.0	2.1	1.7	46.9	57.3
United States	1131	77.4	4.1	77.4	7.0	6.7	3.6	1.1	76.9	77.9
Yemen	821	30.2	18.0	30.2	24.3	12.8	7.8	6.8	31.5	29.3
International Avg.	634	55.4	11.4	55.4	10.5	16.4	2.9	3.5	51.7	59.1
Alberta, Canada	572	74.7	3.3	74.7	7.5	9.8	3.7	1.1	70.7	78.5
British Columbia, Canada	588	80.5	2.5	80.5	6.3	6.8	2.5	1.3	76.3	84.4
Dubai, UAE	455	53.8	15.1	53.8	7.2	17.0	5.0	1.8	48.3	58.6
Massachusetts, US	258	84.0	1.1	84.0	6.6	5.4	2.2	0.8	80.2	88.2
Minnesota, US	254	84.0	5.4	84.0	5.8	3.0	1.8	0.0	83.2	84.8
Ontario, Canada	487	83.0	2.0	83.0	3.3	6.2	3.1	2.4	79.2	86.5
Quebec, Canada	563	55.9	5.8	55.9	11.0	24.4	1.8	1.1	48.9	62.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031088A - S11\_10A)  
 Label: Two ways to use air  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	603	29.1	0.5	3.5	2.1	0.4	0.6	1.4	30.0	19.0	13.4	35.6	37.6	33.5
Armenia	555	56.7	4.2	2.8	0.1	0.4	2.6	0.5	11.6	20.4	0.7	64.1	66.1	62.1
Australia	582	80.9	0.0	1.7	2.6	0.6	5.6	0.9	2.7	4.0	1.1	85.8	87.8	83.3
Austria	694	65.8	0.1	0.0	0.7	0.0	23.2	0.6	4.2	4.3	1.0	66.7	69.0	64.2
Chinese Taipei	591	67.1	0.8	5.0	5.7	0.0	3.5	0.6	10.8	6.5	0.0	78.6	79.6	77.8
Colombia	681	35.1	0.1	1.2	5.8	7.4	9.8	1.5	13.8	10.1	15.2	49.6	48.2	50.9
Czech Republic	602	72.5	0.2	0.4	2.4	0.0	6.3	0.5	7.2	8.6	1.9	75.5	74.9	76.0
Denmark	495	71.8	0.7	0.0	2.7	0.1	7.6	0.0	10.6	4.3	2.2	75.3	79.1	71.4
El Salvador	585	43.5	0.8	0.0	1.4	0.5	10.5	1.2	17.1	12.7	12.3	46.2	44.6	47.8
England	601	75.9	0.0	0.8	3.8	0.0	9.3	0.7	6.6	2.4	0.4	80.5	83.0	78.1
Georgia	590	52.4	0.9	0.4	0.2	0.3	10.0	0.0	14.1	14.8	6.8	54.2	53.6	54.8
Germany	727	67.0	0.3	0.1	2.9	0.1	18.9	0.6	4.8	3.0	2.4	70.3	73.2	67.2
Hong Kong SAR	535	62.3	1.8	2.7	1.3	0.2	16.4	1.4	11.7	1.9	0.3	68.3	69.6	67.0
Hungary	572	50.7	0.2	1.5	6.2	0.6	20.1	1.0	10.3	6.3	3.2	59.1	61.5	56.8
Iran, Islamic Rep. of	553	46.1	0.7	0.5	1.9	0.0	10.5	4.7	18.7	9.7	7.2	49.2	53.6	44.7
Italy	641	71.2	0.0	1.1	1.4	0.3	7.5	0.3	9.2	6.1	3.0	73.9	72.8	75.0
Japan	648	52.0	0.4	2.1	4.5	1.3	18.7	0.1	15.5	4.8	0.6	60.3	57.4	63.4
Kazakhstan	573	68.0	0.7	0.7	0.0	0.0	10.5	0.7	15.1	4.4	0.0	69.4	71.4	67.6
Kuwait	533	35.2	0.3	4.1	2.2	4.1	0.8	0.1	20.5	28.8	4.0	45.9	55.0	35.5
Latvia	568	81.6	0.1	0.3	0.2	1.2	5.4	0.0	9.2	1.0	1.0	83.4	92.3	75.5
Lithuania	565	68.8	0.1	0.8	4.0	0.6	5.8	0.6	9.9	7.3	2.2	74.2	76.8	71.6
Morocco	550	26.1	0.2	1.7	0.6	4.0	0.3	0.1	17.3	36.1	13.7	32.6	29.3	35.0
Netherlands	473	66.5	0.0	1.0	3.9	0.0	14.6	0.4	12.2	1.1	0.2	71.4	71.1	71.8
New Zealand	703	74.4	0.0	1.4	5.5	0.0	8.2	0.4	5.4	4.0	0.8	81.2	85.6	77.7
Norway	594	63.3	0.3	1.1	5.4	0.0	8.2	0.0	11.4	5.8	4.4	70.1	71.2	68.8
Qatar	986	19.6	1.7	5.7	4.0	1.9	1.0	1.0	34.2	26.4	4.4	33.0	35.5	30.4
Russian Federation	632	84.4	0.3	0.3	0.7	0.0	2.3	0.1	3.6	7.0	1.4	85.7	87.3	83.9
Scotland	565	72.6	0.0	1.0	5.1	0.1	9.3	0.3	6.1	3.7	1.6	78.9	79.5	78.2
Singapore	728	71.5	2.8	2.5	2.4	3.2	8.7	0.4	7.8	0.7	0.0	82.5	83.1	81.8
Slovak Republic	706	72.3	0.1	0.8	1.5	0.1	5.2	0.2	6.4	10.5	2.8	74.9	74.3	75.5
Slovenia	631	70.5	0.0	0.4	0.9	0.0	13.7	0.1	7.1	3.7	3.5	71.8	72.5	71.1
Sweden	669	74.0	0.0	1.4	3.0	0.0	6.7	0.4	9.1	3.5	2.0	78.3	77.5	79.0
Tunisia	584	18.7	0.5	1.4	8.2	5.1	1.0	0.3	35.2	16.3	13.4	33.9	34.9	33.0
Ukraine	618	69.0	0.0	1.2	0.8	0.0	1.7	0.9	11.2	12.8	2.5	71.0	74.9	66.7
United States	1131	75.5	0.0	0.3	2.2	0.0	11.6	1.5	5.0	2.9	1.1	78.0	78.7	77.2
Yemen	821	10.2	0.0	0.0	1.5	0.3	1.9	6.2	28.1	43.3	8.5	12.0	13.6	10.8
International Avg.	636	59.0	0.5	1.4	2.7	0.9	8.3	0.8	12.6	10.0	3.9	64.5	66.0	62.9
Alberta, Canada	572	79.0	0.0	2.0	3.2	0.5	4.7	1.2	5.0	3.4	1.1	84.7	84.8	84.6
British Columbia, Canada	588	82.4	0.1	0.6	1.1	0.3	6.0	0.6	5.1	2.6	1.3	84.5	85.4	83.6
Dubai, UAE	455	55.5	0.7	0.8	4.0	0.0	7.0	3.2	13.4	13.1	2.2	61.0	68.1	54.8
Massachusetts, US	258	82.6	0.5	0.3	2.0	0.0	9.5	0.9	2.8	0.7	0.8	85.4	85.0	85.8
Minnesota, US	254	85.3	0.0	0.0	0.0	0.0	11.2	0.0	2.3	1.3	0.0	85.3	90.2	79.6
Ontario, Canada	487	80.3	0.0	0.3	3.1	0.7	4.0	0.6	5.8	1.8	3.4	84.4	85.7	83.2
Quebec, Canada	563	72.7	0.0	1.1	1.2	0.8	10.3	0.4	7.6	5.0	1.1	75.7	76.5	74.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031088B - S11\_10B)  
 Label: Two ways to use air  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	603	6.7	0.4	5.5	0.8	1.1	2.4	2.0	40.3	27.5	13.4	14.4	15.8	12.9
Armenia	554	22.5	9.7	4.3	1.6	1.2	4.8	2.0	19.0	34.2	0.7	39.4	44.2	34.5
Australia	582	6.9	0.7	3.7	15.3	2.0	27.6	8.8	26.1	7.8	1.1	28.6	27.2	30.1
Austria	694	11.1	1.5	2.7	4.2	0.4	30.1	10.8	22.8	15.5	1.0	19.8	17.7	22.1
Chinese Taipei	591	5.9	3.5	13.2	11.9	0.7	10.7	6.3	28.0	19.8	0.0	35.2	31.5	38.5
Colombia	681	6.0	0.4	1.2	3.7	9.3	10.5	1.9	36.1	15.8	15.2	20.6	22.4	19.0
Czech Republic	602	3.9	4.3	1.8	7.2	0.3	12.6	7.8	26.6	33.6	1.9	17.5	9.9	24.5
Denmark	495	5.1	1.2	3.4	12.5	2.5	13.9	6.2	37.0	15.9	2.2	24.8	20.2	29.5
El Salvador	585	3.1	0.3	0.3	2.0	3.8	17.4	3.6	37.4	19.9	12.3	9.4	7.2	11.6
England	601	5.6	0.0	3.1	10.3	0.0	26.9	11.0	32.4	10.4	0.4	18.9	16.7	21.1
Georgia	590	7.2	1.7	1.6	2.3	1.6	9.8	1.9	35.7	31.4	6.8	14.5	12.3	16.4
Germany	727	7.0	1.6	1.5	8.0	0.6	25.7	9.5	28.5	15.2	2.4	18.7	14.7	22.9
Hong Kong SAR	535	10.2	3.1	9.8	9.6	2.6	17.6	6.7	30.9	9.1	0.3	35.4	35.3	35.6
Hungary	572	7.9	1.0	4.9	7.0	0.7	11.9	7.8	33.6	22.0	3.2	21.5	20.9	22.0
Iran, Islamic Rep. of	553	6.6	0.9	1.5	2.8	0.0	13.4	13.0	35.8	18.8	7.2	11.8	11.6	12.0
Italy	641	6.8	2.4	4.0	6.7	3.1	16.6	4.6	35.0	17.8	3.0	23.0	22.4	23.6
Japan	648	4.6	2.5	4.2	6.7	2.2	22.8	2.8	39.9	13.7	0.6	20.3	17.3	23.4
Kazakhstan	573	5.8	4.5	4.2	0.7	0.0	20.9	6.2	47.6	10.1	0.0	15.2	14.1	16.1
Kuwait	533	6.4	0.6	4.4	3.6	8.6	3.0	1.6	29.2	38.7	4.0	23.6	29.7	16.6
Latvia	568	4.4	1.2	7.5	3.1	8.5	22.7	3.2	34.9	13.6	1.0	24.6	27.1	22.3
Lithuania	565	4.5	0.6	5.1	5.0	0.8	16.7	3.2	37.5	24.4	2.2	16.0	13.6	18.4
Morocco	549	3.1	0.4	2.0	0.3	2.6	0.3	1.5	27.8	48.4	13.7	8.4	7.4	9.1
Netherlands	473	5.8	0.6	5.9	11.9	1.0	25.7	6.3	39.3	3.3	0.2	25.2	20.0	30.2
New Zealand	703	7.9	0.6	4.4	10.6	0.6	25.8	7.9	32.2	9.3	0.8	24.1	23.2	24.7
Norway	594	7.0	1.1	2.0	10.9	0.2	25.0	3.0	30.0	16.4	4.4	21.3	21.8	20.5
Qatar	986	3.7	1.3	5.1	5.6	2.2	2.1	0.6	44.5	30.5	4.4	17.8	21.2	14.4
Russian Federation	632	1.6	2.5	7.2	5.6	1.0	16.6	9.1	31.2	23.8	1.4	17.9	14.6	21.6
Scotland	565	7.2	0.0	2.8	9.5	0.3	27.4	7.8	29.1	14.3	1.6	19.8	18.7	20.9
Singapore	728	8.8	12.9	4.9	7.8	20.2	16.4	2.3	24.7	2.0	0.0	54.6	57.3	51.9
Slovak Republic	706	3.9	0.4	4.1	9.3	0.8	9.6	4.1	30.6	34.2	2.8	18.5	13.6	23.5
Slovenia	631	8.1	1.1	4.0	5.5	1.1	29.4	1.6	31.9	14.0	3.5	19.6	20.6	18.7
Sweden	669	5.2	0.5	4.9	9.5	0.7	20.3	7.1	36.5	13.4	2.0	20.7	21.6	20.0
Tunisia	584	2.9	0.9	1.4	9.7	2.9	1.4	2.1	44.1	21.2	13.4	17.8	18.5	17.2
Ukraine	618	4.3	1.2	1.9	3.1	0.5	3.6	3.6	43.9	35.4	2.5	10.9	10.6	11.3
United States	1131	6.0	0.5	3.4	6.7	0.3	36.0	11.7	29.8	4.5	1.1	16.9	16.0	17.9
Yemen	821	2.2	0.2	0.1	0.2	0.0	0.9	7.3	33.4	47.1	8.5	2.8	4.3	1.6
International Avg.	636	6.3	1.8	3.9	6.4	2.3	16.1	5.5	33.4	20.4	3.9	20.8	20.0	21.6
Alberta, Canada	572	5.3	1.3	7.5	12.2	2.8	16.9	12.9	33.5	6.4	1.1	29.1	27.5	30.8
British Columbia, Canada	588	4.0	0.5	3.4	9.8	3.6	20.4	12.8	35.2	8.9	1.3	21.3	16.2	26.0
Dubai, UAE	455	6.4	1.9	4.3	5.9	3.4	16.6	7.5	31.0	20.8	2.2	21.9	21.8	22.0
Massachusetts, US	258	5.6	0.6	4.9	5.9	0.3	40.1	13.3	26.8	1.7	0.8	17.3	18.6	16.0
Minnesota, US	254	3.1	0.9	10.5	7.1	0.4	39.7	9.9	26.2	2.2	0.0	22.0	18.8	25.7
Ontario, Canada	487	4.8	0.6	5.1	13.6	3.2	18.3	12.3	31.9	6.8	3.4	27.3	19.9	34.4
Quebec, Canada	563	7.1	1.5	3.2	9.4	1.5	23.0	7.4	34.3	11.5	1.1	22.8	21.3	24.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031088D - S11\_10D)  
 Label: Two ways to use air/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT	V1	V2	1.GIRL %Right	2.BOY %Right
						REACH ED				
Algeria	603	11.8	26.5	29.6	18.7	13.4	38.3	11.8	13.5	9.9
Armenia	554	36.8	29.9	12.8	19.8	0.7	66.7	36.8	41.4	32.1
Australia	582	23.3	67.8	3.8	4.0	1.1	91.1	23.3	22.1	24.7
Austria	694	8.7	69.0	17.1	4.2	1.0	77.8	8.7	7.6	9.9
Chinese Taipei	591	31.2	51.4	11.0	6.4	0.0	82.6	31.2	27.1	34.9
Colombia	681	14.1	41.9	19.7	9.0	15.2	56.1	14.1	14.5	13.8
Czech Republic	602	13.8	65.4	10.3	8.6	1.9	79.2	13.8	7.5	19.5
Denmark	495	19.1	61.9	12.5	4.3	2.2	81.0	19.1	16.1	22.1
El Salvador	585	6.0	43.6	26.0	12.0	12.3	49.6	6.0	3.2	8.7
England	601	13.7	72.1	11.6	2.3	0.4	85.8	13.7	11.4	15.9
Georgia	590	7.5	53.7	17.2	14.8	6.8	61.2	7.5	4.5	10.1
Germany	727	10.0	68.9	15.7	3.0	2.4	79.0	10.0	8.3	11.9
Hong Kong SAR	535	24.6	54.5	18.7	1.9	0.3	79.1	24.6	23.9	25.4
Hungary	572	14.8	51.0	25.0	6.1	3.2	65.8	14.8	12.8	16.5
Iran, Islamic Rep. of	553	6.1	48.8	28.2	9.7	7.2	54.9	6.1	4.6	7.7
Italy	641	16.8	63.2	11.0	5.9	3.0	80.1	16.8	15.6	18.0
Japan	648	14.7	51.1	29.0	4.6	0.6	65.8	14.7	12.6	17.0
Kazakhstan	573	9.4	65.7	20.7	4.2	0.0	75.1	9.4	7.7	10.9
Kuwait	533	19.6	30.2	18.9	27.3	4.0	49.8	19.6	25.7	12.8
Latvia	568	21.5	64.9	11.5	1.0	1.0	86.4	21.5	25.0	18.4
Lithuania	565	11.6	67.1	12.1	7.1	2.2	78.6	11.6	10.3	12.9
Morocco	549	7.1	26.9	17.5	34.8	13.7	33.9	7.1	6.5	7.6
Netherlands	473	17.4	61.8	19.6	1.1	0.2	79.2	17.4	12.1	22.6
New Zealand	703	17.8	69.7	7.9	3.9	0.8	87.5	17.8	16.0	19.2
Norway	594	14.7	61.9	13.1	5.8	4.4	76.7	14.7	13.8	15.8
Qatar	986	14.9	21.1	33.7	25.9	4.4	35.9	14.9	18.3	11.3
Russian Federation	632	16.8	70.0	4.9	6.9	1.4	86.8	16.8	13.8	20.0
Scotland	565	12.0	74.7	8.1	3.6	1.6	86.7	12.0	10.6	13.5
Singapore	728	47.0	43.1	9.2	0.7	0.0	90.0	47.0	48.9	45.1
Slovak Republic	706	15.6	62.2	9.1	10.2	2.8	77.8	15.6	11.7	19.5
Slovenia	631	11.4	68.6	12.7	3.7	3.5	80.1	11.4	9.9	12.8
Sweden	669	16.7	65.6	12.2	3.5	2.0	82.3	16.7	17.1	16.4
Tunisia	584	13.5	24.8	32.3	16.1	13.4	38.3	13.5	13.9	13.1
Ukraine	618	7.2	67.6	10.3	12.4	2.5	74.7	7.2	6.4	8.0
United States	1131	11.6	71.7	12.7	2.9	1.1	83.3	11.6	10.3	12.9
Yemen	821	1.6	11.7	37.1	41.1	8.5	13.2	1.6	2.5	0.8
International Avg.	636	15.6	54.2	16.7	9.7	3.9	69.7	15.6	14.6	16.4
Alberta, Canada	572	26.2	61.5	7.9	3.4	1.1	87.7	26.2	24.0	28.3
British Columbia, Canada	588	18.2	69.4	8.6	2.5	1.3	87.6	18.2	14.0	22.0
Dubai, UAE	455	15.8	51.2	18.0	12.7	2.2	67.0	15.8	16.3	15.4
Massachusetts, US	258	13.1	76.5	8.9	0.7	0.8	89.6	13.1	14.5	11.5
Minnesota, US	254	18.1	71.1	9.6	1.3	0.0	89.2	18.1	17.7	18.6
Ontario, Canada	487	22.7	66.4	5.8	1.8	3.4	89.1	22.7	16.5	28.6
Quebec, Canada	563	14.9	68.7	10.4	5.0	1.1	83.6	14.9	12.5	17.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031389 - S11\_11)  
 Label: Soil change due to natural causes  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	575	21.4	18.5	20.1	19.6	21.4	3.1	17.3	24.3	18.0
Armenia	550	46.2	14.2	8.5	11.7	46.2	13.7	5.6	48.7	43.7
Australia	582	45.2	19.4	13.2	18.2	45.2	1.8	2.2	48.6	41.0
Austria	694	32.2	19.8	17.1	22.4	32.2	5.8	2.6	29.7	34.9
Chinese Taipei	591	46.2	21.1	18.4	13.8	46.2	0.3	0.2	49.3	43.5
Colombia	681	31.9	15.1	20.7	12.8	31.9	1.8	17.6	30.5	33.1
Czech Republic	602	40.0	22.2	15.2	12.3	40.0	4.8	5.5	40.1	39.9
Denmark	493	35.0	16.6	17.2	18.0	35.0	7.6	5.4	31.9	38.1
El Salvador	585	22.3	23.0	29.4	8.8	22.3	2.1	14.4	22.4	22.3
England	601	49.5	16.8	11.9	19.5	49.5	1.3	0.9	47.7	51.2
Georgia	590	33.4	8.7	28.5	13.6	33.4	4.1	11.6	36.7	30.5
Germany	727	30.6	17.7	20.6	19.8	30.6	7.0	4.3	27.6	33.8
Hong Kong SAR	535	46.0	25.6	16.6	10.6	46.0	0.9	0.3	44.5	47.7
Hungary	572	51.2	20.6	12.2	8.6	51.2	3.2	4.2	51.8	50.7
Iran, Islamic Rep. of	553	26.9	29.1	17.3	14.0	26.9	3.1	9.6	29.3	24.4
Italy	636	45.9	17.4	17.1	11.2	45.9	4.1	4.1	44.0	47.7
Japan	648	56.4	10.1	19.2	12.6	56.4	1.0	0.7	57.2	55.5
Kazakhstan	573	64.3	15.8	11.5	8.0	64.3	0.2	0.3	64.0	64.5
Kuwait	533	24.3	18.6	25.8	18.1	24.3	4.8	8.4	26.8	21.5
Latvia	568	47.2	15.4	16.9	15.7	47.2	3.0	1.8	44.2	49.8
Lithuania	565	43.0	18.7	15.6	12.6	43.0	5.9	4.1	43.6	42.3
Morocco	537	21.5	12.8	22.6	18.7	21.5	7.4	17.0	19.9	22.8
Netherlands	473	34.4	22.8	23.4	18.1	34.4	1.0	0.3	32.2	36.4
New Zealand	703	42.6	17.3	14.9	21.5	42.6	2.2	1.6	46.1	39.7
Norway	594	25.4	26.1	16.1	19.6	25.4	5.4	7.4	23.4	27.8
Qatar	986	17.9	21.2	28.8	18.7	17.9	4.1	9.3	21.3	14.4
Russian Federation	632	58.6	13.5	13.8	9.0	58.6	2.3	2.9	62.3	54.5
Scotland	565	41.3	23.8	13.5	15.7	41.3	2.7	2.9	42.8	39.8
Singapore	728	42.1	17.0	17.4	23.3	42.1	0.2	0.0	39.7	44.5
Slovak Republic	706	51.5	13.4	12.5	11.4	51.5	6.2	5.0	52.4	50.7
Slovenia	631	41.9	11.7	21.6	14.6	41.9	5.0	5.1	43.6	40.3
Sweden	668	39.0	31.3	12.4	9.6	39.0	4.1	3.5	39.0	39.1
Tunisia	584	17.2	12.3	22.5	19.4	17.2	11.8	16.8	21.9	13.1
Ukraine	618	40.9	19.8	19.1	13.5	40.9	3.0	3.7	41.6	40.0
United States	1131	49.9	15.9	11.0	18.8	49.9	2.7	1.8	50.3	49.6
Yemen	821	20.6	16.4	23.0	21.8	20.6	4.4	13.8	23.0	18.8
International Avg.	634	38.4	18.3	17.9	15.4	38.4	4.0	5.9	39.0	37.9
Alberta, Canada	572	44.5	19.1	12.8	18.6	44.5	3.4	1.5	41.4	47.5
British Columbia, Canada	588	46.7	16.6	11.8	19.7	46.7	2.6	2.5	46.5	47.0
Dubai, UAE	455	31.9	21.0	18.0	18.9	31.9	5.7	4.4	32.7	31.3
Massachusetts, US	258	57.1	16.3	10.5	12.4	57.1	2.3	1.4	57.0	57.3
Minnesota, US	254	51.9	15.6	9.0	21.5	51.9	1.7	0.4	51.5	52.4
Ontario, Canada	487	48.7	20.0	9.4	15.5	48.7	2.7	3.7	44.8	52.3
Quebec, Canada	563	29.7	18.8	19.5	24.2	29.7	4.8	2.9	33.4	26.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041027 - S12\_01)  
 Label: Ecosystem and name of animal  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	57.1	41.6	1.2	0.2	57.1	52.8	61.4
Armenia	550	80.6	13.4	5.8	0.2	80.6	81.5	79.6
Australia	590	96.6	3.0	0.3	0.2	96.6	97.2	95.9
Austria	698	92.2	6.5	1.2	0.1	92.2	92.2	92.2
Chinese Taipei	593	89.0	10.9	0.1	0.0	89.0	87.2	90.6
Colombia	683	55.3	41.8	2.4	0.4	55.3	51.2	58.5
Czech Republic	604	95.6	4.0	0.4	0.0	95.6	95.6	95.6
Denmark	510	88.1	10.4	1.0	0.5	88.1	91.1	85.4
El Salvador	584	56.5	40.0	2.9	0.6	56.5	53.1	60.1
England	622	95.0	4.7	0.3	0.0	95.0	95.3	94.6
Georgia	595	72.7	22.1	4.4	0.7	72.7	73.7	71.9
Germany	719	93.2	6.8	0.0	0.0	93.2	93.5	93.0
Hong Kong SAR	537	93.2	6.6	0.2	0.0	93.2	91.4	94.9
Hungary	583	93.7	5.5	0.7	0.1	93.7	93.0	94.3
Iran, Islamic Rep. of	533	69.5	28.4	1.5	0.6	69.5	69.6	69.4
Italy	641	89.2	9.5	1.3	0.0	89.2	88.8	89.6
Japan	641	97.9	1.8	0.0	0.3	97.9	96.8	99.0
Kazakhstan	571	77.5	22.3	0.2	0.0	77.5	74.9	79.6
Kuwait	536	36.5	57.1	5.8	0.6	36.5	32.9	40.4
Latvia	563	95.1	4.9	0.0	0.0	95.1	94.3	95.7
Lithuania	579	93.7	5.8	0.6	0.0	93.7	91.4	96.4
Morocco	552	50.3	44.4	4.3	1.0	50.3	51.4	49.5
Netherlands	472	95.0	4.7	0.3	0.0	95.0	95.9	94.2
New Zealand	723	93.0	6.2	0.9	0.0	93.0	94.5	91.4
Norway	596	90.4	8.5	0.7	0.3	90.4	91.2	89.5
Qatar	988	41.7	53.4	4.1	0.7	41.7	41.1	42.4
Russian Federation	643	84.9	14.5	0.6	0.0	84.9	81.0	88.7
Scotland	565	93.4	5.7	0.8	0.1	93.4	93.7	93.0
Singapore	730	95.3	4.7	0.0	0.0	95.3	96.6	93.8
Slovak Republic	706	90.6	8.8	0.4	0.1	90.6	90.2	91.1
Slovenia	630	78.6	21.0	0.4	0.0	78.6	74.9	81.9
Sweden	666	92.3	7.2	0.5	0.0	92.3	93.3	91.3
Tunisia	589	45.5	51.0	2.6	0.8	45.5	47.2	44.0
Ukraine	619	83.0	16.7	0.3	0.1	83.0	81.2	84.8
United States	1131	96.0	3.5	0.5	0.0	96.0	95.3	96.6
Yemen	822	16.7	75.8	6.6	0.9	16.7	20.3	13.8
International Avg.	638	79.6	18.7	1.5	0.2	79.6	79.0	80.1
Alberta, Canada	577	95.1	3.2	1.6	0.0	95.1	95.8	94.5
British Columbia, Canada	590	97.0	2.0	1.0	0.0	97.0	97.4	96.5
Dubai, UAE	453	80.9	16.4	2.7	0.0	80.9	79.3	82.3
Massachusetts, US	250	98.5	1.5	0.0	0.0	98.5	97.8	99.4
Minnesota, US	262	99.3	0.7	0.0	0.0	99.3	99.0	99.6
Ontario, Canada	492	95.8	3.8	0.4	0.0	95.8	96.3	95.2
Quebec, Canada	567	93.5	6.1	0.4	0.1	93.5	91.7	95.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041043 - S12\_02)  
 Label: How to protect teeth from decay  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	587	17.1	18.2	3.2	1.1	30.6	29.6	0.2	39.6	45.5	33.6
Armenia	551	22.8	14.6	5.3	7.8	23.7	25.4	0.4	50.5	48.8	52.2
Australia	590	15.0	33.9	4.5	2.8	37.8	5.9	0.2	56.2	58.5	53.9
Austria	698	41.1	15.3	9.1	0.7	18.8	14.9	0.1	66.2	68.6	64.0
Chinese Taipei	593	25.0	34.4	15.1	0.6	17.5	7.5	0.0	75.0	77.9	72.6
Colombia	683	8.7	21.4	7.9	1.2	40.1	19.5	1.2	39.2	40.5	38.3
Czech Republic	604	41.2	14.0	7.1	1.1	24.9	11.6	0.0	63.5	71.7	55.7
Denmark	510	30.6	23.3	6.6	5.4	22.0	11.6	0.5	65.9	69.3	62.9
El Salvador	584	17.8	10.0	7.0	0.0	42.2	22.3	0.6	34.8	36.7	32.9
England	622	22.0	27.0	3.3	3.1	34.4	10.2	0.0	55.3	57.1	53.5
Georgia	595	8.9	7.1	4.4	13.8	29.2	35.9	0.7	34.2	42.5	27.0
Germany	719	46.4	16.0	9.1	0.3	17.0	11.2	0.0	71.7	76.6	66.8
Hong Kong SAR	537	28.7	37.5	12.0	3.2	16.7	2.0	0.0	81.3	81.6	81.1
Hungary	583	44.1	10.5	11.1	3.2	18.5	12.5	0.1	68.9	72.0	66.0
Iran, Islamic Rep. of	533	33.1	19.2	1.0	5.1	24.2	16.5	0.9	58.5	63.8	53.0
Italy	641	34.5	17.0	6.8	2.1	27.5	12.0	0.0	60.5	63.8	57.5
Japan	641	29.6	18.8	5.6	3.5	38.8	3.4	0.3	57.5	56.0	58.9
Kazakhstan	571	25.9	12.8	12.3	5.3	32.3	11.4	0.0	56.3	60.8	52.7
Kuwait	536	10.6	13.9	3.2	6.7	14.6	50.2	0.7	34.5	47.2	21.0
Latvia	563	48.6	17.0	13.4	1.7	15.6	3.6	0.0	80.7	83.8	78.2
Lithuania	579	42.0	15.9	7.8	5.3	22.3	6.6	0.0	71.1	70.9	71.4
Morocco	552	14.4	7.9	2.5	1.4	27.3	45.3	1.1	26.2	28.0	24.8
Netherlands	472	30.8	29.4	8.4	0.9	25.8	4.7	0.0	69.5	76.8	62.8
New Zealand	723	15.6	31.6	3.0	0.4	40.9	8.3	0.2	50.6	55.5	45.4
Norway	596	21.3	43.5	2.3	0.9	23.6	8.1	0.3	67.9	70.7	64.7
Qatar	988	6.3	6.0	3.8	4.8	28.4	50.0	0.7	20.9	25.9	15.7
Russian Federation	643	26.9	13.7	14.3	3.4	32.6	9.0	0.0	58.4	65.2	51.7
Scotland	565	18.7	29.3	4.8	3.1	35.3	8.7	0.1	55.9	65.5	45.7
Singapore	730	29.2	32.7	10.6	0.9	24.3	2.4	0.0	73.3	79.6	66.6
Slovak Republic	706	44.8	6.5	8.0	3.2	29.0	8.3	0.1	62.6	65.2	59.9
Slovenia	630	27.1	8.7	21.3	6.3	32.1	4.5	0.0	63.4	67.5	59.9
Sweden	666	22.6	39.3	2.8	1.0	26.5	7.8	0.0	65.7	68.7	62.7
Tunisia	589	19.7	6.1	3.9	3.6	37.9	27.9	1.0	33.3	36.8	30.1
Ukraine	619	15.4	10.5	18.0	7.2	30.9	18.0	0.1	51.0	54.4	47.8
United States	1131	11.0	54.2	2.8	1.5	24.3	6.3	0.0	69.4	71.6	67.3
Yemen	822	2.0	12.9	0.3	2.7	22.1	58.7	1.3	17.9	18.1	17.8
International Avg.	638	25.0	20.3	7.3	3.2	27.5	16.4	0.3	55.8	59.5	52.1
Alberta, Canada	577	9.2	51.6	2.8	6.8	20.0	9.6	0.0	70.3	74.1	66.7
British Columbia, Canada	590	11.8	44.2	5.2	3.4	28.5	7.0	0.0	64.6	68.6	60.7
Dubai, UAE	453	20.9	17.9	4.3	2.8	29.1	24.9	0.1	45.9	48.5	43.7
Massachusetts, US	250	11.2	62.1	3.5	1.4	17.4	4.4	0.0	78.2	81.4	74.6
Minnesota, US	262	7.6	57.9	2.5	1.2	25.9	4.7	0.0	69.3	69.5	69.2
Ontario, Canada	492	11.3	54.5	4.0	2.9	24.1	3.2	0.0	72.7	74.9	70.5
Quebec, Canada	567	24.8	30.4	8.2	6.6	19.6	10.4	0.1	70.0	75.3	64.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041050 - S12\_03)  
 Label: Classifying item  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	546	26.5	29.6	26.1	26.5	12.9	4.3	0.7	24.4	28.8
Armenia	539	47.0	23.0	10.5	47.0	6.6	12.4	0.4	46.8	47.2
Australia	590	43.4	34.2	8.3	43.4	12.9	1.1	0.2	44.1	42.7
Austria	698	57.6	18.3	7.4	57.6	7.2	9.4	0.1	59.1	56.3
Chinese Taipei	593	59.4	19.3	10.8	59.4	8.4	2.1	0.0	58.4	60.3
Colombia	683	23.9	34.2	17.0	23.9	17.3	6.0	1.5	21.0	26.2
Czech Republic	604	45.7	12.8	12.7	45.7	19.3	9.6	0.0	43.9	47.3
Denmark	496	48.1	35.9	8.4	48.1	3.9	3.2	0.5	45.7	50.2
El Salvador	584	22.9	42.3	15.2	22.9	13.8	4.8	1.1	22.3	23.4
England	622	56.7	29.8	4.0	56.7	6.7	2.6	0.0	56.2	57.3
Georgia	597	27.0	47.0	11.1	27.0	8.3	5.9	0.7	27.2	26.8
Germany	719	53.3	15.3	7.2	53.3	8.2	15.3	0.6	52.7	53.9
Hong Kong SAR	537	59.2	24.9	5.4	59.2	10.0	0.5	0.0	58.1	60.3
Hungary	583	37.0	25.9	6.5	37.0	8.9	20.4	1.3	36.1	37.9
Iran, Islamic Rep. of	534	16.6	41.3	26.9	16.6	10.5	3.7	0.9	20.5	12.6
Italy	610	79.0	10.7	4.8	79.0	3.1	2.2	0.1	80.8	77.4
Japan	641	78.6	10.0	4.4	78.6	3.6	3.1	0.3	77.8	79.3
Kazakhstan	571	68.5	19.8	6.5	68.5	5.3	0.0	0.0	67.8	69.1
Kuwait	536	33.2	31.6	18.2	33.2	9.7	5.7	1.7	32.0	34.4
Latvia	563	48.4	25.7	7.6	48.4	13.5	4.8	0.0	51.9	45.6
Lithuania	579	50.9	23.1	7.1	50.9	9.7	9.3	0.0	51.3	50.4
Morocco	534	26.2	20.1	21.4	26.2	19.9	9.5	2.8	21.8	29.8
Netherlands	472	53.6	27.9	5.9	53.6	7.3	5.2	0.0	52.5	54.5
New Zealand	723	52.1	28.4	7.3	52.1	8.0	4.0	0.2	53.6	50.5
Norway	596	48.0	27.5	8.8	48.0	8.5	6.7	0.5	48.5	47.5
Qatar	988	27.4	33.9	20.1	27.4	11.3	6.0	1.3	27.2	27.6
Russian Federation	643	56.8	22.7	5.2	56.8	7.7	7.3	0.2	60.3	53.3
Scotland	565	49.5	31.3	7.7	49.5	8.1	3.2	0.1	50.3	48.8
Singapore	730	49.7	40.9	3.3	49.7	5.9	0.2	0.0	49.4	50.1
Slovak Republic	706	51.5	28.6	5.4	51.5	8.8	5.5	0.1	53.0	50.0
Slovenia	630	58.5	25.0	6.3	58.5	4.6	5.6	0.0	58.9	58.1
Sweden	666	56.5	25.1	8.4	56.5	6.1	3.8	0.1	60.0	53.0
Tunisia	589	26.6	23.9	17.8	26.6	9.6	20.0	2.0	24.4	28.5
Ukraine	619	45.8	24.8	10.8	45.8	12.8	5.7	0.1	43.5	48.0
United States	1131	47.3	34.8	6.7	47.3	10.8	0.5	0.0	46.4	48.1
Yemen	822	26.1	20.0	26.5	26.1	17.2	8.4	1.7	24.4	27.5
International Avg.	634	46.1	26.9	10.8	46.1	9.6	6.1	0.5	45.9	46.2
Alberta, Canada	577	47.6	34.4	6.7	47.6	9.7	1.7	0.0	46.3	48.8
British Columbia, Canada	590	45.7	30.1	10.1	45.7	10.4	3.5	0.2	46.3	45.2
Dubai, UAE	453	42.5	34.4	7.9	42.5	8.4	6.5	0.3	45.8	39.7
Massachusetts, US	250	56.3	30.9	4.0	56.3	8.5	0.0	0.3	60.2	52.0
Minnesota, US	262	51.7	36.8	3.5	51.7	7.7	0.4	0.0	50.7	52.7
Ontario, Canada	492	55.1	31.5	5.1	55.1	6.5	1.7	0.0	55.3	54.9
Quebec, Canada	567	56.3	24.1	10.0	56.3	5.4	4.1	0.1	55.5	57.2

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Knowing (S041070 - S12\_04)  
 Label: Why shadow forms  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	18.4	18.4	19.4	22.0	30.5	8.9	0.8	22.4	14.3
Armenia	550	53.9	53.9	16.9	7.9	10.6	10.4	0.4	55.3	52.5
Australia	590	59.9	59.9	10.0	17.2	11.8	1.0	0.2	56.0	63.9
Austria	698	64.9	64.9	8.9	3.9	19.5	2.6	0.1	57.0	72.0
Chinese Taipei	593	55.5	55.5	12.9	4.4	26.3	0.9	0.0	49.6	60.6
Colombia	683	33.8	33.8	9.6	32.4	18.7	3.9	1.6	23.1	41.9
Czech Republic	604	53.3	53.3	12.3	3.5	26.5	4.3	0.1	50.1	56.3
Denmark	509	49.6	49.6	12.8	10.0	24.0	2.7	1.0	41.1	57.1
El Salvador	584	33.5	33.5	21.6	28.3	12.2	3.0	1.4	27.0	40.1
England	622	75.5	75.5	9.5	7.7	6.1	1.0	0.4	71.2	80.0
Georgia	597	33.4	33.4	22.0	25.7	13.0	5.2	0.7	29.9	36.4
Germany	719	67.5	67.5	8.6	3.8	16.9	2.5	0.7	59.9	75.1
Hong Kong SAR	537	49.8	49.8	11.7	3.3	35.1	0.1	0.0	42.0	57.8
Hungary	583	60.4	60.4	12.6	9.2	13.8	2.6	1.3	50.6	69.4
Iran, Islamic Rep. of	534	50.9	50.9	24.7	9.0	11.9	2.6	1.0	47.1	54.8
Italy	637	44.8	44.8	16.9	10.9	24.1	3.1	0.1	42.2	47.2
Japan	641	73.2	73.2	12.3	6.2	7.5	0.5	0.3	72.9	73.5
Kazakhstan	571	62.6	62.6	7.3	7.9	21.0	1.3	0.0	58.5	65.9
Kuwait	536	17.4	17.4	19.8	16.7	36.0	8.3	1.7	14.9	20.2
Latvia	563	61.8	61.8	5.0	15.3	17.7	0.2	0.0	54.3	68.1
Lithuania	579	58.5	58.5	8.7	13.6	16.8	2.3	0.0	51.5	67.0
Morocco	536	22.3	22.3	16.0	25.1	27.8	5.5	3.2	17.2	26.7
Netherlands	472	57.5	57.5	7.4	12.2	21.5	1.4	0.0	49.1	65.3
New Zealand	723	56.6	56.6	12.1	14.2	15.0	1.9	0.2	53.2	60.1
Norway	596	45.0	45.0	13.8	15.6	23.0	2.1	0.6	42.3	48.1
Qatar	988	17.5	17.5	21.2	23.5	29.6	6.8	1.4	18.1	17.0
Russian Federation	643	66.4	66.4	5.7	8.8	16.8	1.5	0.9	59.4	73.4
Scotland	565	61.4	61.4	12.5	12.1	12.1	1.8	0.1	57.0	66.1
Singapore	730	81.6	81.6	10.8	3.1	4.4	0.1	0.0	81.5	81.6
Slovak Republic	706	50.2	50.2	15.8	16.2	13.3	4.3	0.2	43.2	57.3
Slovenia	630	34.8	34.8	44.8	9.9	9.0	1.2	0.2	22.9	45.3
Sweden	666	59.1	59.1	10.0	12.5	17.0	1.2	0.2	57.4	60.8
Tunisia	589	14.4	14.4	20.4	23.2	22.7	17.2	2.1	14.0	14.8
Ukraine	619	48.5	48.5	9.5	10.6	29.3	2.0	0.1	42.3	54.5
United States	1131	60.8	60.8	12.2	13.5	12.4	1.0	0.1	58.2	63.4
Yemen	822	14.1	14.1	21.0	30.1	23.8	9.0	2.0	11.7	16.0
International Avg.	637	49.1	49.1	14.4	13.6	18.8	3.5	0.6	44.6	53.5
Alberta, Canada	577	69.6	69.6	7.8	8.8	12.8	0.8	0.2	64.9	74.3
British Columbia, Canada	590	59.7	59.7	11.0	11.7	14.5	2.9	0.2	59.5	59.9
Dubai, UAE	453	47.9	47.9	16.1	11.8	19.4	4.4	0.3	46.1	49.5
Massachusetts, US	250	66.3	66.3	7.6	16.9	8.4	0.5	0.3	58.1	75.3
Minnesota, US	262	68.5	68.5	10.9	11.6	8.6	0.4	0.0	63.8	73.5
Ontario, Canada	492	61.9	61.9	12.5	12.4	12.7	0.4	0.1	60.2	63.6
Quebec, Canada	567	49.3	49.3	14.3	10.6	24.2	1.6	0.1	37.7	61.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041006 - S12\_05)  
 Label: A tree and lion are living  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL	2.BOY
									%Right	%Right
Algeria	591	12.0	10.0	49.8	27.0	1.2	21.9	12.0	13.6	10.3
Armenia	550	31.5	19.0	31.1	18.0	0.4	50.5	31.5	32.1	30.9
Australia	590	23.9	42.4	27.0	6.5	0.2	66.3	23.9	21.6	26.3
Austria	698	13.9	38.7	31.1	16.2	0.1	52.5	13.9	9.6	17.7
Chinese Taipei	593	31.8	37.6	20.4	10.2	0.0	69.4	31.8	33.1	30.7
Colombia	683	13.6	30.9	44.8	9.1	1.6	44.5	13.6	13.6	13.7
Czech Republic	604	38.0	28.5	20.7	12.7	0.1	66.5	38.0	39.9	36.2
Denmark	509	20.7	33.6	33.1	11.6	1.0	54.4	20.7	18.8	22.4
El Salvador	584	16.7	27.8	41.5	12.4	1.6	44.5	16.7	16.9	16.4
England	622	28.3	44.4	22.4	4.5	0.4	72.7	28.3	27.5	29.2
Georgia	597	21.1	29.1	29.1	19.5	1.2	50.2	21.1	23.7	18.9
Germany	719	20.7	28.1	37.7	12.8	0.7	48.7	20.7	20.7	20.7
Hong Kong SAR	537	26.4	39.5	27.9	6.2	0.0	65.9	26.4	25.7	27.1
Hungary	583	25.1	31.6	32.7	9.3	1.3	56.7	25.1	28.8	21.6
Iran, Islamic Rep. of	534	27.1	26.9	33.0	12.0	1.0	54.0	27.1	28.7	25.4
Italy	641	38.4	28.3	24.0	9.0	0.3	66.7	38.4	42.0	35.2
Japan	641	10.2	31.0	53.4	5.1	0.3	41.2	10.2	9.9	10.5
Kazakhstan	571	35.5	31.5	28.5	3.6	1.0	67.0	35.5	36.8	34.4
Kuwait	536	4.7	12.2	47.1	33.9	2.0	16.9	4.7	6.7	2.6
Latvia	563	28.2	36.3	33.3	2.2	0.0	64.6	28.2	38.6	19.6
Lithuania	579	16.3	33.6	41.0	9.0	0.0	50.0	16.3	18.1	14.2
Morocco	552	7.7	6.2	35.8	47.0	3.2	14.0	7.7	7.6	7.7
Netherlands	472	15.0	33.8	47.8	3.5	0.0	48.7	15.0	11.9	17.8
New Zealand	723	15.8	38.2	39.4	6.5	0.2	53.9	15.8	16.2	15.3
Norway	596	14.8	33.1	41.8	9.6	0.7	47.9	14.8	17.8	11.4
Qatar	988	6.6	8.7	52.5	30.5	1.6	15.4	6.6	8.0	5.2
Russian Federation	643	39.8	29.0	23.8	6.5	0.9	68.8	39.8	44.3	35.3
Scotland	565	19.5	41.6	27.0	11.8	0.1	61.1	19.5	18.4	20.7
Singapore	730	61.7	27.6	10.0	0.7	0.0	89.3	61.7	63.1	60.2
Slovak Republic	706	36.7	33.4	20.1	9.7	0.2	70.0	36.7	37.3	36.0
Slovenia	630	27.0	39.5	28.2	5.1	0.2	66.5	27.0	26.0	28.0
Sweden	666	22.3	40.6	28.9	7.8	0.4	62.9	22.3	23.8	20.8
Tunisia	589	6.6	12.6	59.3	19.4	2.1	19.2	6.6	9.1	4.3
Ukraine	619	31.7	24.6	31.7	11.7	0.3	56.3	31.7	31.8	31.6
United States	1131	24.8	32.1	41.1	1.9	0.1	56.9	24.8	23.7	25.8
Yemen	822	3.3	9.9	49.0	35.7	2.0	13.2	3.3	5.4	1.7
International Avg.	638	22.7	29.2	34.6	12.7	0.7	51.9	22.7	23.6	21.8
Alberta, Canada	577	28.8	40.2	26.1	4.7	0.2	69.0	28.8	30.2	27.4
British Columbia, Canada	590	27.4	46.8	22.7	2.9	0.2	74.2	27.4	28.2	26.6
Dubai, UAE	453	26.5	21.7	33.1	18.4	0.3	48.3	26.5	28.2	25.1
Massachusetts, US	250	34.5	30.3	31.6	3.3	0.3	64.7	34.5	32.2	37.0
Minnesota, US	262	19.8	35.4	43.7	1.0	0.0	55.2	19.8	15.1	24.9
Ontario, Canada	492	33.0	41.6	22.1	3.2	0.1	74.6	33.0	29.8	36.2
Quebec, Canada	567	12.0	34.8	40.4	12.8	0.1	46.8	12.0	11.4	12.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041052 - S12\_06)  
 Label: Which one is a solid  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	551	63.4	12.8	63.4	7.9	9.5	4.3	2.2	65.0	61.7
Armenia	552	83.5	7.2	83.5	2.5	2.2	3.8	0.7	83.7	83.4
Australia	590	79.0	6.5	79.0	4.3	7.6	2.3	0.2	76.7	81.4
Austria	698	77.6	9.2	77.6	4.5	5.4	3.2	0.1	76.4	78.7
Chinese Taipei	593	83.4	7.5	83.4	5.2	2.6	1.3	0.0	83.4	83.4
Colombia	683	38.6	26.9	38.6	8.2	22.7	1.6	2.0	33.4	42.6
Czech Republic	604	78.4	9.5	78.4	4.4	4.9	2.3	0.5	77.8	78.9
Denmark	506	51.0	15.0	51.0	12.6	18.1	2.3	1.0	53.5	48.9
El Salvador	584	39.4	23.4	39.4	9.8	20.8	3.8	2.6	34.3	44.6
England	622	88.1	3.2	88.1	3.9	2.3	1.9	0.6	88.4	87.8
Georgia	597	58.4	14.6	58.4	9.0	15.0	1.9	1.2	56.2	60.4
Germany	719	83.1	4.6	83.1	3.8	4.4	3.4	0.7	81.6	84.6
Hong Kong SAR	537	91.2	2.8	91.2	3.3	2.0	0.7	0.0	90.8	91.5
Hungary	583	72.3	8.6	72.3	3.6	11.4	2.6	1.5	70.3	74.2
Iran, Islamic Rep. of	534	68.6	15.0	68.6	8.4	5.0	1.8	1.3	68.9	68.3
Italy	636	84.6	6.6	84.6	2.9	4.1	0.9	0.8	84.2	85.0
Japan	641	82.9	7.5	82.9	2.1	5.6	1.6	0.3	84.7	81.0
Kazakhstan	571	90.1	3.9	90.1	1.7	3.0	0.3	1.0	91.3	89.0
Kuwait	536	57.9	13.6	57.9	9.2	10.5	5.3	3.5	64.4	50.8
Latvia	563	93.7	2.8	93.7	2.2	1.1	0.3	0.0	95.2	92.4
Lithuania	579	90.4	2.4	90.4	1.5	5.3	0.4	0.0	91.0	89.7
Morocco	528	49.6	12.0	49.6	9.4	18.6	6.0	4.5	45.3	53.2
Netherlands	472	28.3	26.6	28.3	29.2	14.4	1.5	0.0	27.5	29.1
New Zealand	723	72.1	12.1	72.1	5.0	7.5	3.0	0.2	74.0	70.0
Norway	596	19.8	33.6	19.8	18.4	24.8	2.6	0.7	15.4	25.0
Qatar	988	49.7	19.5	49.7	12.9	12.1	4.1	1.7	51.2	48.2
Russian Federation	643	87.5	5.2	87.5	1.5	3.7	0.8	1.3	87.9	87.1
Scotland	565	76.8	10.6	76.8	6.5	3.9	1.8	0.5	78.1	75.3
Singapore	730	93.4	2.5	93.4	2.3	1.3	0.5	0.0	92.0	94.9
Slovak Republic	706	71.4	12.9	71.4	6.5	6.7	1.9	0.5	71.5	71.4
Slovenia	630	82.6	8.6	82.6	3.8	2.3	2.3	0.3	81.1	83.9
Sweden	666	56.9	19.8	56.9	14.7	6.7	1.5	0.4	57.4	56.5
Tunisia	589	58.6	5.3	58.6	7.4	8.0	17.5	3.3	64.0	53.8
Ukraine	619	83.5	6.0	83.5	3.2	5.7	1.3	0.3	85.6	81.5
United States	1131	83.0	6.3	83.0	3.9	5.4	1.3	0.1	81.2	84.8
Yemen	822	37.9	15.8	37.9	18.0	19.4	6.5	2.4	40.8	35.5
International Avg.	636	69.6	11.1	69.6	7.1	8.4	2.7	1.0	69.6	69.7
Alberta, Canada	577	78.1	7.5	78.1	3.9	9.1	1.1	0.3	78.2	78.0
British Columbia, Canada	590	83.7	4.8	83.7	4.7	5.6	1.0	0.2	84.2	83.2
Dubai, UAE	453	71.6	15.8	71.6	4.6	5.2	2.4	0.3	69.1	73.7
Massachusetts, US	250	86.7	5.3	86.7	3.8	2.5	1.0	0.6	84.1	89.6
Minnesota, US	262	85.9	6.7	85.9	1.6	4.8	0.9	0.0	81.0	91.1
Ontario, Canada	492	81.7	6.3	81.7	2.8	7.2	1.8	0.1	79.4	83.9
Quebec, Canada	567	87.3	6.1	87.3	1.7	3.0	1.7	0.3	88.9	85.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041301 - S12\_07)  
 Label: Importance of drinking water  
 Type: CR Key: -

COUNTRY	N	10	11	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	593	3.4	1.6	0.7	57.4	34.6	2.4	5.7	8.2	3.2
Armenia	553	25.1	7.4	8.6	41.4	16.5	1.0	41.1	44.3	37.9
Australia	590	6.3	40.0	0.0	48.2	5.1	0.3	46.3	46.1	46.5
Austria	698	4.9	36.0	0.1	45.5	13.3	0.1	41.0	40.7	41.3
Chinese Taipei	593	36.9	11.5	0.1	44.6	7.0	0.0	48.4	50.3	46.8
Colombia	683	1.3	10.2	0.8	76.1	9.6	2.0	12.3	12.2	12.3
Czech Republic	603	6.7	23.8	0.6	51.9	16.4	0.5	31.2	33.8	28.7
Denmark	510	8.2	18.6	0.2	63.6	8.4	1.0	27.0	30.6	23.8
El Salvador	584	3.3	33.3	2.4	42.4	15.8	2.8	39.0	36.5	41.6
England	622	16.0	35.6	0.1	44.8	2.9	0.6	51.7	50.9	52.6
Georgia	597	4.9	5.9	3.6	60.9	23.0	1.7	14.5	15.5	13.6
Germany	719	15.7	35.6	0.1	38.3	9.6	0.7	51.4	53.7	49.2
Hong Kong SAR	537	24.9	5.5	4.1	60.7	4.8	0.0	34.5	39.1	29.7
Hungary	583	8.4	59.8	0.1	22.3	7.9	1.6	68.2	67.1	69.3
Iran, Islamic Rep. of	534	7.4	4.1	5.1	59.8	22.3	1.3	16.7	18.2	15.1
Italy	641	11.2	9.5	1.2	69.4	7.9	0.8	21.8	21.1	22.5
Japan	641	7.3	25.8	1.7	57.5	7.0	0.7	34.8	39.5	30.1
Kazakhstan	571	13.0	6.6	0.0	72.0	7.4	1.0	19.6	18.9	20.1
Kuwait	536	2.4	5.3	3.1	44.2	41.3	3.8	10.8	11.9	9.6
Latvia	563	5.7	14.3	21.4	53.7	4.9	0.0	41.4	42.9	40.1
Lithuania	579	11.2	13.8	3.0	62.1	9.7	0.1	28.0	26.3	30.0
Morocco	552	1.7	1.0	1.4	44.4	47.1	4.5	4.1	2.8	5.1
Netherlands	472	4.6	51.1	1.0	42.2	1.0	0.0	56.7	57.3	56.2
New Zealand	723	7.6	34.8	0.0	52.4	4.9	0.3	42.4	43.8	40.9
Norway	596	3.3	16.8	0.0	67.3	11.8	0.9	20.1	22.0	17.8
Qatar	988	2.8	1.4	0.1	50.3	43.6	1.7	4.3	5.5	3.0
Russian Federation	643	17.4	8.7	0.0	62.1	10.5	1.3	26.1	29.8	22.5
Scotland	565	11.6	27.2	0.2	53.9	6.7	0.5	39.0	42.2	35.6
Singapore	730	22.0	12.2	5.7	58.6	1.4	0.0	39.9	39.5	40.4
Slovak Republic	706	7.2	30.7	2.7	52.3	6.6	0.5	40.6	41.2	40.1
Slovenia	630	4.0	11.4	2.6	77.7	3.9	0.3	18.1	17.6	18.5
Sweden	666	4.0	38.7	0.0	50.6	6.2	0.5	42.7	45.6	39.8
Tunisia	589	1.0	2.1	0.3	71.8	20.6	4.2	3.5	3.1	3.8
Ukraine	619	5.7	9.6	6.8	58.6	18.9	0.4	22.1	23.8	20.5
United States	1131	7.7	33.9	0.0	55.8	2.4	0.3	41.5	41.3	41.8
Yemen	820	1.0	0.0	0.1	39.9	56.3	2.7	1.1	2.1	0.3
International Avg.	638	9.1	19.0	2.2	54.3	14.4	1.1	30.2	31.3	29.2
Alberta, Canada	577	9.6	36.8	3.7	46.4	3.3	0.3	50.1	50.2	50.0
British Columbia, Canada	590	14.9	35.8	3.0	41.5	4.6	0.2	53.6	56.0	51.3
Dubai, UAE	453	11.0	8.7	2.0	57.7	20.3	0.3	21.6	24.9	18.8
Massachusetts, US	250	8.5	51.9	0.0	36.4	2.6	0.6	60.4	58.5	62.5
Minnesota, US	262	7.1	44.3	0.0	47.3	1.3	0.0	51.4	48.7	54.2
Ontario, Canada	492	9.2	43.1	0.7	44.5	2.1	0.3	53.1	54.9	51.2
Quebec, Canada	567	8.5	43.2	0.2	41.1	6.5	0.5	52.0	53.8	50.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S041080 - S12\_08)  
 Label: Weight of Y and Z objects that sink  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	560	22.8	4.7	38.0	26.3	22.8	4.8	3.3	27.2	18.2
Armenia	549	41.4	10.6	15.1	22.5	41.4	9.4	1.0	41.4	41.3
Australia	590	32.1	2.8	18.5	43.7	32.1	2.5	0.4	32.5	31.6
Austria	698	33.9	6.0	26.5	30.6	33.9	2.9	0.1	34.3	33.5
Chinese Taipei	593	38.6	4.9	24.0	32.0	38.6	0.5	0.0	39.8	37.6
Colombia	682	19.4	9.8	36.3	29.4	19.4	3.1	2.1	24.2	15.7
Czech Republic	603	39.2	2.1	19.8	36.4	39.2	2.0	0.5	37.4	41.0
Denmark	510	30.2	5.0	23.9	38.8	30.2	0.7	1.4	28.5	31.6
El Salvador	584	18.7	11.8	35.9	26.4	18.7	3.2	3.9	18.8	18.7
England	622	39.1	2.6	21.0	35.8	39.1	0.9	0.6	37.7	40.6
Georgia	597	29.3	6.0	16.8	40.0	29.3	5.3	2.6	29.9	28.8
Germany	719	38.0	4.9	24.7	29.6	38.0	1.9	0.9	34.0	42.2
Hong Kong SAR	537	47.5	3.9	16.0	32.0	47.5	0.5	0.0	44.2	51.0
Hungary	583	35.4	2.9	17.0	40.2	35.4	2.7	1.7	35.5	35.3
Iran, Islamic Rep. of	534	30.4	8.8	35.4	20.6	30.4	3.2	1.6	29.3	31.6
Italy	635	33.9	1.6	23.7	39.0	33.9	0.9	0.8	34.5	33.4
Japan	641	13.9	9.9	15.9	59.1	13.9	0.4	0.8	12.5	15.4
Kazakhstan	571	20.7	11.3	16.4	50.2	20.7	0.3	1.0	24.1	18.0
Kuwait	536	19.5	7.1	42.2	20.9	19.5	6.1	4.2	21.0	17.8
Latvia	563	42.9	4.0	20.8	30.4	42.9	1.9	0.1	45.1	41.0
Lithuania	578	33.2	2.5	18.2	43.3	33.2	2.2	0.6	30.1	37.0
Morocco	538	26.1	7.9	33.3	23.7	26.1	3.3	5.6	28.8	24.0
Netherlands	472	41.3	3.6	20.8	33.8	41.3	0.3	0.2	40.0	42.5
New Zealand	723	28.8	4.7	25.2	38.0	28.8	2.8	0.6	27.0	30.6
Norway	596	21.7	8.2	29.6	37.5	21.7	2.1	1.0	19.7	24.0
Qatar	988	12.7	12.4	50.3	18.2	12.7	4.0	2.4	13.3	12.1
Russian Federation	643	36.4	4.2	17.3	39.4	36.4	1.4	1.3	36.9	36.0
Scotland	564	31.7	5.7	25.0	34.9	31.7	2.3	0.5	31.5	31.9
Singapore	730	56.4	3.0	13.6	26.9	56.4	0.1	0.0	54.5	58.4
Slovak Republic	706	28.4	2.7	28.0	38.1	28.4	2.1	0.7	27.4	29.5
Slovenia	630	30.0	3.5	25.7	39.5	30.0	0.9	0.3	25.0	34.4
Sweden	666	35.5	7.9	14.9	40.2	35.5	0.9	0.5	33.9	37.2
Tunisia	589	18.9	6.5	35.4	17.0	18.9	17.7	4.6	18.7	19.0
Ukraine	619	23.2	4.0	24.4	46.7	23.2	0.8	0.9	26.1	20.4
United States	1131	29.4	2.7	30.9	35.6	29.4	1.1	0.4	28.0	30.7
Yemen	820	13.1	11.2	37.4	27.7	13.1	7.4	3.1	14.9	11.6
International Avg.	636	30.4	5.9	25.5	34.0	30.4	2.8	1.4	30.2	30.7
Alberta, Canada	577	25.0	1.9	26.0	46.0	25.0	0.8	0.3	21.3	28.8
British Columbia, Canada	590	31.5	3.4	24.8	38.2	31.5	1.9	0.2	28.3	34.6
Dubai, UAE	453	27.5	5.4	35.5	27.5	27.5	3.3	0.7	30.3	25.2
Massachusetts, US	250	34.7	0.9	24.9	38.1	34.7	0.8	0.6	33.3	36.2
Minnesota, US	262	34.0	2.5	20.6	42.4	34.0	0.6	0.0	35.6	32.3
Ontario, Canada	492	29.7	2.6	25.3	41.0	29.7	1.0	0.4	29.7	29.8
Quebec, Canada	567	33.6	4.5	24.0	36.4	33.6	1.0	0.5	31.4	36.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041033 - S12\_09)  
 Label: Physical change in mammals in winter  
 Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT	1.GIRL	2.BOY	
						REACH ED			%Right
Algeria	593	1.2	2.8	43.1	48.6	4.3	4.0	4.6	3.5
Armenia	553	30.1	11.3	27.7	29.7	1.1	41.4	43.0	39.8
Australia	590	13.5	16.2	55.6	14.0	0.8	29.6	29.9	29.3
Austria	698	27.6	7.3	33.9	31.1	0.1	34.9	39.2	31.0
Chinese Taipei	593	11.4	31.1	38.0	19.3	0.2	42.6	38.6	46.0
Colombia	683	4.0	1.9	54.5	36.2	3.4	6.0	4.4	7.1
Czech Republic	604	13.3	8.2	48.1	29.1	1.2	21.6	18.5	24.4
Denmark	510	19.9	15.9	43.7	19.2	1.4	35.8	35.2	36.3
El Salvador	584	1.1	2.9	57.7	34.1	4.2	3.9	3.1	4.8
England	622	16.5	15.0	53.8	14.0	0.6	31.6	32.7	30.4
Georgia	597	4.8	5.7	42.1	44.3	3.1	10.5	10.8	10.3
Germany	719	31.0	8.3	33.5	26.3	0.9	39.3	40.9	37.7
Hong Kong SAR	537	9.6	21.8	58.0	10.7	0.0	31.3	34.1	28.5
Hungary	583	27.7	3.3	37.2	29.7	2.1	31.0	33.5	28.8
Iran, Islamic Rep. of	533	1.2	5.0	49.0	42.7	2.1	6.2	6.4	6.1
Italy	641	27.1	18.4	35.6	17.9	1.0	45.5	46.0	45.0
Japan	641	11.2	17.6	59.6	10.9	0.8	28.7	32.4	25.1
Kazakhstan	571	27.7	10.5	51.0	9.8	1.0	38.2	44.7	32.9
Kuwait	536	5.1	3.1	32.4	55.3	4.2	8.2	11.3	4.8
Latvia	563	20.0	2.4	68.9	8.6	0.1	22.4	25.3	20.0
Lithuania	579	6.6	6.3	62.9	23.5	0.8	12.9	13.7	11.8
Morocco	552	0.8	0.4	31.5	61.3	5.9	1.2	2.1	0.5
Netherlands	472	32.0	7.7	52.9	7.1	0.3	39.7	41.8	37.8
New Zealand	723	12.0	10.4	61.5	15.1	1.0	22.4	23.2	21.6
Norway	596	17.6	6.7	52.8	21.8	1.0	24.3	27.9	20.1
Qatar	988	1.8	1.3	39.9	54.3	2.6	3.2	4.1	2.3
Russian Federation	643	24.7	10.6	49.2	13.9	1.6	35.3	31.6	39.0
Scotland	565	10.8	10.7	52.7	24.7	1.1	21.5	18.9	24.2
Singapore	730	11.0	12.3	73.2	3.5	0.0	23.3	23.7	22.9
Slovak Republic	706	24.0	8.8	42.9	23.2	1.1	32.8	34.6	31.0
Slovenia	630	20.6	7.3	54.6	16.9	0.5	27.9	29.3	26.8
Sweden	666	19.1	7.5	50.1	22.6	0.7	26.6	28.4	24.8
Tunisia	589	1.4	3.2	47.1	42.8	5.5	4.6	4.7	4.4
Ukraine	619	10.9	5.1	45.0	38.0	1.1	15.9	16.2	15.7
United States	1131	16.3	16.9	60.5	5.8	0.5	33.2	33.3	33.2
Yemen	822	0.4	0.1	39.1	57.1	3.4	0.5	1.1	0.0
International Avg.	638	14.3	9.0	48.3	26.7	1.7	23.3	24.1	22.4
Alberta, Canada	577	16.2	16.7	54.0	12.6	0.5	32.9	36.7	29.1
British Columbia, Canada	590	17.0	17.2	49.5	15.8	0.4	34.2	36.4	32.0
Dubai, UAE	453	5.1	8.6	52.2	33.3	0.9	13.6	15.5	12.0
Massachusetts, US	250	19.4	17.2	59.4	3.3	0.6	36.6	37.2	35.9
Minnesota, US	262	16.8	15.4	64.6	3.2	0.0	32.2	34.6	29.7
Ontario, Canada	492	19.9	18.3	52.4	9.0	0.4	38.2	44.0	32.5
Quebec, Canada	567	20.7	15.1	44.5	19.2	0.5	35.8	38.0	33.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041077 - S12\_11)  
 Label: Label the poles on the top magnet  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	592	10.7	6.5	1.1	23.4	52.2	6.1	10.7	10.9	10.6
Armenia	553	61.2	7.5	0.3	12.3	17.6	1.2	61.2	58.6	63.7
Australia	590	44.5	28.0	7.8	7.2	11.3	1.2	44.5	39.2	49.9
Austria	698	49.8	13.1	9.6	8.6	18.5	0.3	49.8	43.5	55.5
Chinese Taipei	593	70.2	18.2	0.4	5.0	6.0	0.2	70.2	69.8	70.5
Colombia	683	15.4	19.4	1.3	28.5	30.6	4.8	15.4	18.4	13.1
Czech Republic	604	39.9	19.3	6.7	13.1	19.8	1.2	39.9	38.6	41.1
Denmark	509	27.9	22.2	24.5	7.7	15.6	2.0	27.9	29.2	26.8
El Salvador	584	12.0	14.1	1.7	18.8	47.8	5.7	12.0	11.6	12.3
England	622	51.8	23.8	5.9	8.7	9.2	0.7	51.8	51.7	51.9
Georgia	597	15.7	9.2	0.0	21.1	49.5	4.4	15.7	15.0	16.4
Germany	719	48.9	14.4	5.4	10.3	19.8	1.2	48.9	41.0	57.0
Hong Kong SAR	537	54.3	17.4	3.1	15.1	10.0	0.2	54.3	47.0	61.9
Hungary	583	44.7	16.8	5.4	15.1	15.9	2.2	44.7	40.8	48.2
Iran, Islamic Rep. of	533	32.3	18.8	15.1	12.1	18.9	2.7	32.3	27.5	37.3
Italy	641	33.9	21.3	1.9	15.5	25.7	1.6	33.9	31.1	36.5
Japan	641	83.3	7.7	0.0	4.7	3.5	0.8	83.3	85.1	81.5
Kazakhstan	571	60.5	15.1	0.2	15.7	7.5	1.0	60.5	63.5	58.1
Kuwait	536	7.0	3.7	0.6	22.9	60.4	5.4	7.0	7.6	6.5
Latvia	563	59.2	14.8	0.5	15.4	10.0	0.2	59.2	58.0	60.3
Lithuania	579	38.6	17.6	6.0	11.6	25.3	0.9	38.6	37.3	40.2
Morocco	552	7.8	5.6	0.0	27.2	51.7	7.7	7.8	6.5	8.8
Netherlands	472	42.7	20.4	3.6	23.7	9.3	0.3	42.7	44.3	41.3
New Zealand	723	38.1	26.7	9.1	9.2	15.3	1.5	38.1	31.9	44.5
Norway	596	29.2	20.3	2.7	15.6	30.8	1.4	29.2	27.5	31.2
Qatar	988	11.3	7.2	0.4	23.5	54.2	3.3	11.3	13.2	9.4
Russian Federation	643	56.0	16.3	1.4	14.2	9.3	2.9	56.0	54.4	57.5
Scotland	565	30.4	33.5	7.4	10.4	16.8	1.5	30.4	28.4	32.5
Singapore	730	80.3	11.0	0.8	6.1	1.9	0.0	80.3	79.7	80.8
Slovak Republic	706	44.3	17.8	3.3	16.3	17.1	1.2	44.3	38.3	50.2
Slovenia	630	44.2	21.1	6.8	17.7	9.6	0.6	44.2	42.1	46.0
Sweden	666	41.2	11.3	3.8	18.3	24.5	0.9	41.2	37.9	44.5
Tunisia	589	7.7	11.2	4.3	31.7	38.0	7.2	7.7	8.2	7.2
Ukraine	619	36.6	16.4	0.0	23.3	22.6	1.1	36.6	33.7	39.5
United States	1131	48.6	21.9	3.9	17.0	7.9	0.7	48.6	46.7	50.4
Yemen	822	6.0	3.0	0.2	39.2	46.6	4.8	6.0	5.7	6.3
International Avg.	638	38.5	15.9	4.0	16.3	23.1	2.2	38.5	36.8	40.3
Alberta, Canada	577	48.7	27.2	5.9	6.5	10.6	1.1	48.7	49.7	47.8
British Columbia, Canada	590	42.2	28.9	7.0	9.2	11.4	1.4	42.2	37.7	46.5
Dubai, UAE	453	33.2	21.9	5.0	11.2	27.9	0.9	33.2	33.8	32.7
Massachusetts, US	250	53.3	27.6	4.6	10.8	3.2	0.6	53.3	47.8	59.3
Minnesota, US	262	46.8	24.0	4.1	21.4	3.8	0.0	46.8	42.5	51.4
Ontario, Canada	492	59.7	22.9	3.7	4.6	8.3	0.9	59.7	57.1	62.2
Quebec, Canada	567	38.9	18.3	8.0	16.3	17.5	1.0	38.9	39.1	38.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S041209 - S12\_12)  
 Label: Time Earth orbits the sun once  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	566	20.4	54.7	5.1	20.4	11.3	1.9	6.5	19.2	21.7
Armenia	552	63.0	25.5	2.0	63.0	5.7	2.1	1.7	61.1	64.9
Australia	590	48.4	36.8	5.4	48.4	6.9	1.0	1.6	47.0	49.8
Austria	698	54.4	34.7	4.9	54.4	3.4	2.4	0.3	52.6	56.1
Chinese Taipei	593	45.8	40.1	8.4	45.8	5.6	0.0	0.2	40.6	50.2
Colombia	682	30.7	47.8	6.8	30.7	7.1	1.3	6.3	26.9	33.6
Czech Republic	604	47.3	44.9	3.7	47.3	1.8	1.1	1.2	47.5	47.1
Denmark	509	47.1	39.1	5.8	47.1	4.8	0.9	2.3	43.1	50.6
El Salvador	584	27.4	51.8	6.1	27.4	5.5	2.0	7.3	25.9	28.8
England	622	54.3	33.5	6.2	54.3	3.5	1.5	1.0	47.0	62.2
Georgia	597	39.6	44.1	3.3	39.6	5.3	1.9	5.8	42.4	37.1
Germany	719	46.6	41.8	4.6	46.6	5.2	0.4	1.4	43.7	49.5
Hong Kong SAR	537	54.4	35.5	3.1	54.4	6.2	0.6	0.2	49.9	59.0
Hungary	583	48.8	40.9	3.0	48.8	3.2	1.4	2.7	45.9	51.4
Iran, Islamic Rep. of	533	38.5	41.1	9.0	38.5	5.9	2.3	3.1	40.6	36.3
Italy	639	44.8	41.0	5.1	44.8	5.0	2.3	1.7	42.4	47.0
Japan	641	35.9	51.8	6.4	35.9	4.0	0.9	0.9	35.6	36.2
Kazakhstan	571	56.9	36.7	4.4	56.9	0.8	0.1	1.0	59.3	55.0
Kuwait	536	34.3	22.8	19.7	34.3	13.4	3.7	6.1	39.7	28.5
Latvia	563	59.3	32.9	3.7	59.3	2.0	1.7	0.4	59.5	59.2
Lithuania	579	50.1	41.5	3.6	50.1	3.5	0.3	1.0	49.3	51.2
Morocco	545	21.6	41.6	13.7	21.6	11.5	1.8	9.8	20.2	22.9
Netherlands	472	40.9	44.7	10.2	40.9	3.1	0.5	0.5	37.0	44.5
New Zealand	723	40.0	41.8	6.6	40.0	7.6	2.4	1.5	38.7	41.4
Norway	596	54.9	32.9	5.8	54.9	2.6	1.3	2.5	50.7	59.8
Qatar	988	16.1	47.7	15.0	16.1	15.0	2.5	3.7	16.5	15.6
Russian Federation	643	48.7	42.3	3.7	48.7	1.5	0.5	3.2	45.8	51.7
Scotland	565	44.4	38.5	6.6	44.4	7.3	1.5	1.8	43.1	45.7
Singapore	730	39.7	44.3	6.6	39.7	9.0	0.4	0.0	39.3	40.2
Slovak Republic	706	55.3	38.9	2.2	55.3	1.1	1.3	1.3	52.7	57.9
Slovenia	630	45.4	46.1	5.5	45.4	1.8	0.6	0.6	44.2	46.6
Sweden	666	65.4	24.3	4.4	65.4	3.6	1.2	1.1	62.7	68.2
Tunisia	589	21.1	37.3	10.8	21.1	11.9	10.5	8.4	21.7	20.6
Ukraine	619	48.7	40.2	6.7	48.7	2.3	0.5	1.6	46.2	51.1
United States	1131	52.9	35.7	4.9	52.9	4.8	0.8	0.9	51.1	54.6
Yemen	822	20.1	37.5	14.4	20.1	16.8	6.2	5.1	17.5	22.2
International Avg.	637	43.4	39.8	6.6	43.4	5.8	1.7	2.6	41.8	45.0
Alberta, Canada	577	40.9	41.0	6.9	40.9	8.1	1.8	1.1	35.3	46.5
British Columbia, Canada	590	52.6	31.8	4.2	52.6	7.2	2.6	1.6	50.2	55.1
Dubai, UAE	453	36.7	46.2	7.5	36.7	7.6	1.1	1.0	35.2	38.0
Massachusetts, US	250	54.8	35.4	4.5	54.8	3.0	1.7	0.6	53.1	56.6
Minnesota, US	262	56.9	31.6	4.2	56.9	6.9	0.4	0.0	56.1	57.7
Ontario, Canada	492	33.1	49.7	9.2	33.1	6.4	0.4	1.2	33.3	32.9
Quebec, Canada	567	51.4	32.6	8.8	51.4	5.0	1.2	1.0	45.3	58.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S041081 - S12\_13)  
 Label: Two things make up crust  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT TED	NOT REACH ED	V1	V2	1.GIRL %Right	2.BOY %Right
Algeria	589	5.5	7.1	37.1	43.4	6.9	12.6	5.5	6.0	5.0
Armenia	553	26.8	11.6	30.6	28.3	2.8	38.3	26.8	25.4	28.1
Australia	590	46.3	18.9	22.8	10.4	1.7	65.1	46.3	38.4	54.5
Austria	698	49.0	19.2	10.0	21.2	0.6	68.2	49.0	42.8	54.6
Chinese Taipei	593	26.1	16.0	34.0	23.8	0.2	42.0	26.1	23.7	28.2
Colombia	683	6.6	9.7	42.0	34.9	6.8	16.3	6.6	3.4	9.0
Czech Republic	604	26.3	15.8	25.8	30.8	1.2	42.1	26.3	21.9	30.5
Denmark	510	51.4	16.2	14.4	15.7	2.3	67.7	51.4	49.1	53.5
El Salvador	584	3.6	14.5	36.8	37.7	7.3	18.2	3.6	1.3	6.0
England	622	36.7	23.4	26.4	12.5	1.0	60.1	36.7	32.6	41.1
Georgia	597	9.5	10.0	27.4	46.6	6.4	19.6	9.5	9.8	9.3
Germany	719	43.4	21.5	16.2	17.5	1.4	64.8	43.4	36.9	49.9
Hong Kong SAR	537	26.5	40.3	25.2	7.8	0.2	66.8	26.5	26.4	26.5
Hungary	583	24.2	14.6	32.6	25.8	2.8	38.8	24.2	21.3	26.9
Iran, Islamic Rep. of	534	4.4	6.8	53.9	31.3	3.7	11.2	4.4	3.1	5.7
Italy	641	29.8	18.1	21.9	28.4	1.7	47.9	29.8	26.9	32.4
Japan	641	16.7	30.8	37.9	13.7	0.9	47.4	16.7	20.3	13.1
Kazakhstan	571	23.3	28.5	33.8	13.3	1.0	51.8	23.3	21.1	24.9
Kuwait	536	8.3	3.1	31.3	50.9	6.3	11.4	8.3	9.9	6.6
Latvia	563	30.1	28.5	28.4	12.6	0.4	58.6	30.1	25.0	34.3
Lithuania	579	28.2	18.5	19.7	32.4	1.1	46.7	28.2	29.5	26.6
Morocco	552	5.4	3.2	28.7	52.9	9.9	8.6	5.4	6.6	4.4
Netherlands	472	51.1	22.1	19.8	6.6	0.5	73.2	51.1	47.7	54.2
New Zealand	723	33.5	24.9	27.0	12.9	1.7	58.4	33.5	29.2	37.9
Norway	596	40.4	24.2	16.0	16.7	2.7	64.6	40.4	39.2	41.7
Qatar	988	7.0	7.2	39.1	42.6	4.1	14.3	7.0	6.5	7.6
Russian Federation	643	25.7	29.8	23.2	18.1	3.2	55.5	25.7	25.2	26.1
Scotland	565	28.4	17.8	24.4	27.6	1.8	46.2	28.4	27.7	29.2
Singapore	730	26.2	26.7	42.3	4.8	0.0	52.9	26.2	24.4	28.1
Slovak Republic	706	20.7	15.9	36.0	26.0	1.3	36.7	20.7	18.8	22.6
Slovenia	630	36.3	18.6	24.4	20.0	0.8	54.8	36.3	33.8	38.4
Sweden	666	41.1	28.4	14.7	14.6	1.1	69.5	41.1	41.7	40.5
Tunisia	589	3.0	5.6	48.0	34.2	9.1	8.7	3.0	3.1	3.0
Ukraine	619	15.1	11.2	40.2	31.8	1.6	26.3	15.1	11.2	18.9
United States	1131	37.7	26.8	29.7	4.8	0.9	64.5	37.7	33.8	41.4
Yemen	822	2.5	4.2	48.3	39.7	5.4	6.7	2.5	2.4	2.5
International Avg.	638	24.9	17.8	29.7	24.8	2.8	42.7	24.9	23.0	26.8
Alberta, Canada	577	36.5	37.7	17.0	7.6	1.1	74.3	36.5	37.2	35.9
British Columbia, Canada	590	30.5	32.2	22.3	12.6	2.4	62.8	30.5	31.5	29.6
Dubai, UAE	453	17.5	20.1	39.4	22.0	1.0	37.6	17.5	21.6	14.1
Massachusetts, US	250	57.2	21.9	15.8	4.5	0.6	79.1	57.2	51.6	63.3
Minnesota, US	262	47.7	29.7	20.7	1.9	0.0	77.4	47.7	48.5	46.9
Ontario, Canada	492	32.6	34.4	23.9	7.9	1.2	67.0	32.6	32.5	32.8
Quebec, Canada	567	22.8	21.1	32.2	22.8	1.1	43.9	22.8	19.2	26.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Applying (S041102 - S12\_14)  
 Label: In which place will it snow  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	502	41.5	21.2	14.0	41.5	8.8	3.6	10.8	41.6	41.5
Armenia	537	55.0	10.3	10.5	55.0	7.8	7.2	9.2	54.2	55.7
Australia	590	67.7	10.7	13.4	67.7	4.2	1.6	2.4	70.3	65.0
Austria	698	69.0	7.0	8.4	69.0	9.8	4.4	1.5	68.5	69.3
Chinese Taipei	593	58.2	8.5	28.4	58.2	3.2	1.5	0.2	51.4	64.0
Colombia	682	30.6	35.8	11.5	30.6	4.5	4.9	12.6	29.1	31.7
Czech Republic	604	76.6	6.3	6.0	76.6	3.1	5.2	2.8	78.0	75.3
Denmark	501	77.9	4.5	9.7	77.9	3.4	1.1	3.5	80.4	75.6
El Salvador	584	28.9	31.3	15.1	28.9	9.5	4.6	10.5	29.3	28.6
England	622	75.1	6.9	11.5	75.1	3.6	1.5	1.5	74.1	76.2
Georgia	597	40.6	19.0	16.3	40.6	8.3	6.0	9.9	41.1	40.1
Germany	719	64.8	4.6	4.6	64.8	12.9	10.2	2.8	63.3	66.4
Hong Kong SAR	537	56.2	1.8	39.9	56.2	1.1	0.5	0.4	49.1	63.6
Hungary	583	72.0	2.9	9.5	72.0	2.1	7.8	5.7	73.5	70.6
Iran, Islamic Rep. of	534	31.7	37.2	12.4	31.7	7.0	5.0	6.7	30.4	33.1
Italy	613	74.1	11.4	8.1	74.1	1.9	1.5	3.0	72.8	75.3
Japan	641	83.3	3.4	9.0	83.3	1.6	1.3	1.4	83.3	83.3
Kazakhstan	571	70.6	9.9	13.9	70.6	3.5	1.0	1.1	71.5	69.8
Kuwait	536	31.5	25.9	17.8	31.5	7.1	6.9	10.7	29.2	34.1
Latvia	563	81.1	3.3	10.7	81.1	2.6	1.5	0.9	78.1	83.5
Lithuania	579	68.6	9.5	10.6	68.6	2.0	4.6	4.7	69.1	68.1
Morocco	498	36.3	11.8	19.7	36.3	11.3	5.1	15.8	29.3	42.1
Netherlands	472	84.7	3.7	6.8	84.7	2.3	1.6	0.9	83.7	85.6
New Zealand	723	60.2	16.6	13.8	60.2	4.2	3.0	2.2	57.3	63.3
Norway	596	72.2	7.8	7.9	72.2	3.1	3.3	5.8	73.3	70.9
Qatar	987	25.9	30.4	23.6	25.9	9.2	4.3	6.6	25.0	26.8
Russian Federation	643	64.5	6.5	18.8	64.5	3.3	2.7	4.2	62.3	66.7
Scotland	565	64.6	14.9	10.0	64.6	4.6	2.5	3.4	64.4	64.9
Singapore	730	58.5	8.5	27.7	58.5	4.7	0.3	0.3	53.7	63.6
Slovak Republic	706	68.6	9.7	13.3	68.6	2.7	3.0	2.8	70.6	66.6
Slovenia	630	71.2	8.0	11.0	71.2	2.4	5.0	2.4	69.0	73.2
Sweden	666	78.1	5.4	11.3	78.1	1.7	1.4	2.2	75.0	81.2
Tunisia	589	24.9	14.6	14.8	24.9	4.8	26.1	14.8	25.5	24.4
Ukraine	619	68.5	11.0	8.7	68.5	5.9	2.7	3.1	71.4	65.7
United States	1131	68.1	12.0	13.2	68.1	4.1	1.3	1.3	66.3	69.9
Yemen	822	34.1	14.3	25.7	34.1	9.6	7.4	8.9	32.4	35.4
International Avg.	632	59.3	12.4	14.1	59.3	5.0	4.2	4.9	58.3	60.3
Alberta, Canada	577	79.0	8.6	7.1	79.0	2.3	1.4	1.6	77.8	80.2
British Columbia, Canada	590	76.9	8.2	6.3	76.9	2.3	3.2	3.2	75.5	78.2
Dubai, UAE	453	48.1	19.9	16.0	48.1	7.3	5.4	3.3	42.5	52.8
Massachusetts, US	250	80.0	8.0	7.3	80.0	1.8	1.4	1.5	78.4	81.6
Minnesota, US	262	78.0	6.8	11.6	78.0	2.2	1.1	0.2	76.6	79.6
Ontario, Canada	492	74.8	8.3	11.5	74.8	2.9	1.0	1.6	72.6	76.9
Quebec, Canada	567	68.9	10.2	10.9	68.9	2.0	4.5	3.5	70.7	67.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031356 - S13\_01)  
 Label: Which animal is a predator  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	550	66.9	7.8	66.9	7.5	11.6	2.8	3.4	66.4	67.5
Armenia	579	93.2	2.2	93.2	1.6	0.5	2.4	0.0	93.4	93.1
Australia	580	88.2	3.9	88.2	3.8	2.0	0.9	1.3	85.5	91.1
Austria	691	96.2	1.4	96.2	0.8	0.8	0.8	0.0	95.5	96.8
Chinese Taipei	594	86.8	6.1	86.8	2.0	4.5	0.7	0.0	85.5	87.9
Colombia	672	78.9	8.3	78.9	5.6	1.0	1.3	4.9	73.6	83.3
Czech Republic	591	95.3	2.6	95.3	0.4	0.1	0.8	0.9	95.3	95.2
Denmark	505	90.4	7.5	90.4	0.0	0.3	1.1	0.8	89.2	91.7
El Salvador	588	80.4	8.4	80.4	2.8	2.4	2.5	3.5	75.9	84.8
England	631	90.8	4.6	90.8	1.8	2.2	0.5	0.0	90.4	91.2
Georgia	588	96.8	1.0	96.8	0.4	0.1	0.5	1.3	96.5	97.1
Germany	734	94.1	2.4	94.1	0.7	0.4	1.4	0.9	92.6	95.6
Hong Kong SAR	540	93.3	3.2	93.3	2.4	1.1	0.0	0.0	94.3	92.3
Hungary	587	96.1	2.0	96.1	0.6	0.2	0.3	0.9	96.1	96.2
Iran, Islamic Rep. of	536	88.5	4.5	88.5	2.0	1.7	1.9	1.4	89.6	87.4
Italy	640	95.2	2.9	95.2	0.4	0.8	0.5	0.3	93.5	96.9
Japan	639	85.6	4.7	85.6	5.8	2.9	0.7	0.2	88.3	82.9
Kazakhstan	571	97.8	1.8	97.8	0.3	0.1	0.0	0.0	96.9	98.7
Kuwait	525	74.0	11.2	74.0	6.6	4.1	2.4	1.7	81.4	65.6
Latvia	562	99.4	0.5	99.4	0.1	0.0	0.0	0.0	99.4	99.4
Lithuania	572	98.1	1.0	98.1	0.0	0.0	0.6	0.3	98.2	98.0
Morocco	537	58.0	9.2	58.0	14.7	9.5	6.2	2.3	57.2	58.8
Netherlands	480	97.6	1.7	97.6	0.0	0.3	0.4	0.0	96.2	98.8
New Zealand	718	83.4	5.7	83.4	5.7	2.8	1.9	0.4	83.3	83.4
Norway	591	86.9	8.9	86.9	0.3	0.8	0.6	2.6	86.0	87.8
Qatar	988	55.1	23.3	55.1	10.6	5.7	3.6	1.7	57.3	52.8
Russian Federation	644	97.1	1.4	97.1	0.3	0.0	1.0	0.2	98.7	95.7
Scotland	576	84.3	6.1	84.3	5.1	3.4	0.6	0.5	83.0	85.7
Singapore	714	87.9	4.6	87.9	4.9	2.2	0.4	0.0	86.1	89.6
Slovak Republic	715	92.5	2.8	92.5	2.6	0.8	1.1	0.2	88.7	96.3
Slovenia	625	86.7	7.1	86.7	1.6	2.7	1.7	0.2	86.5	86.9
Sweden	662	90.8	6.6	90.8	0.1	0.9	1.3	0.2	89.9	91.7
Tunisia	594	73.3	2.3	73.3	4.6	2.0	13.0	4.9	76.4	70.4
Ukraine	608	95.6	1.8	95.6	0.8	0.4	0.9	0.6	95.3	95.8
United States	1128	88.4	4.8	88.4	3.3	2.4	0.7	0.3	84.6	92.2
Yemen	818	44.1	16.6	44.1	17.8	9.8	10.0	1.7	42.2	45.6
International Avg.	635	86.3	5.3	86.3	3.3	2.2	1.8	1.0	85.8	86.8
Alberta, Canada	564	89.7	2.9	89.7	4.2	1.5	1.5	0.3	89.2	90.1
British Columbia, Canada	591	91.5	3.8	91.5	2.2	0.8	1.3	0.4	89.7	93.4
Dubai, UAE	434	72.8	10.2	72.8	10.1	3.1	3.5	0.3	68.3	77.0
Massachusetts, US	246	93.4	3.7	93.4	2.3	0.3	0.3	0.0	92.6	94.2
Minnesota, US	267	90.1	4.8	90.1	3.9	0.4	0.8	0.0	89.1	91.1
Ontario, Canada	503	89.1	3.2	89.1	3.9	2.0	1.4	0.4	87.1	91.0
Quebec, Canada	578	91.1	5.2	91.1	2.2	0.6	0.8	0.0	88.0	95.0

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031291 - S13\_02)  
 Label: What walrus has to keep it warm  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	555	43.3	43.3	15.2	12.8	20.9	4.0	3.9	43.4	43.1
Armenia	577	80.5	80.5	4.6	1.8	9.7	3.5	0.0	81.1	79.9
Australia	580	91.1	91.1	1.5	2.3	2.7	1.0	1.3	92.6	89.5
Austria	691	95.2	95.2	0.9	1.3	1.8	0.9	0.0	94.7	95.5
Chinese Taipei	594	82.9	82.9	1.9	3.1	11.4	0.7	0.0	79.7	85.6
Colombia	672	62.5	62.5	8.2	3.9	18.1	2.3	4.9	60.1	64.5
Czech Republic	591	88.3	88.3	2.6	2.2	5.3	0.6	0.9	86.1	90.5
Denmark	506	91.8	91.8	0.5	0.5	5.6	0.6	0.9	91.4	92.4
El Salvador	588	61.7	61.7	7.2	6.5	16.9	3.5	4.2	57.8	65.4
England	631	92.0	92.0	2.1	1.5	4.1	0.3	0.0	93.3	90.9
Georgia	588	61.4	61.4	8.7	4.8	20.7	3.1	1.3	59.7	63.1
Germany	734	94.7	94.7	0.7	2.0	1.3	0.5	0.9	93.5	95.8
Hong Kong SAR	540	91.6	91.6	2.6	1.9	3.9	0.0	0.0	92.7	90.4
Hungary	587	93.7	93.7	0.6	0.4	2.3	2.2	0.9	94.2	93.2
Iran, Islamic Rep. of	536	69.6	69.6	7.7	2.9	16.5	1.4	1.8	71.7	67.5
Italy	638	93.1	93.1	1.4	1.4	3.4	0.1	0.7	93.8	92.3
Japan	639	83.5	83.5	3.4	6.5	6.0	0.4	0.2	84.5	82.5
Kazakhstan	571	95.9	95.9	1.2	0.2	2.6	0.1	0.0	95.8	95.9
Kuwait	525	53.9	53.9	10.5	11.8	16.9	5.0	1.9	60.2	46.7
Latvia	562	97.2	97.2	0.5	0.1	2.0	0.1	0.0	96.3	98.3
Lithuania	572	92.9	92.9	0.5	0.5	4.8	1.0	0.3	92.3	93.5
Morocco	544	27.0	27.0	17.1	18.9	29.4	5.4	2.2	24.8	29.1
Netherlands	480	94.4	94.4	1.0	0.5	3.7	0.4	0.0	93.3	95.5
New Zealand	718	86.1	86.1	4.7	3.2	4.0	1.5	0.4	90.2	81.7
Norway	591	80.7	80.7	2.2	6.5	7.4	0.6	2.6	79.3	82.4
Qatar	989	41.0	41.0	18.6	16.1	18.2	3.9	2.1	40.9	41.1
Russian Federation	644	97.3	97.3	0.4	0.2	1.3	0.0	0.8	98.1	96.6
Scotland	576	89.8	89.8	2.6	2.5	4.0	0.5	0.7	92.4	87.1
Singapore	714	85.7	85.7	7.6	2.8	3.5	0.4	0.0	84.5	86.9
Slovak Republic	715	88.3	88.3	3.0	2.9	4.1	1.5	0.2	82.7	94.0
Slovenia	625	81.0	81.0	6.5	2.0	8.1	2.3	0.2	82.5	79.6
Sweden	662	93.8	93.8	0.3	2.9	2.0	0.7	0.2	94.1	93.6
Tunisia	594	44.3	44.3	11.3	10.3	16.4	12.1	5.6	48.1	40.7
Ukraine	608	90.3	90.3	4.0	1.1	3.8	0.1	0.6	88.9	91.7
United States	1128	88.4	88.4	3.4	3.0	4.1	0.7	0.3	86.8	89.9
Yemen	818	20.4	20.4	24.7	24.4	20.0	8.4	2.0	18.8	21.8
International Avg.	636	78.5	78.5	5.3	4.6	8.5	1.9	1.2	78.3	78.6
Alberta, Canada	564	94.2	94.2	1.6	1.0	1.7	1.2	0.3	96.3	92.0
British Columbia, Canada	591	94.8	94.8	1.8	0.4	1.1	1.5	0.4	95.3	94.4
Dubai, UAE	434	69.9	69.9	7.8	8.6	10.9	2.5	0.3	69.5	70.3
Massachusetts, US	246	96.8	96.8	2.3	0.6	0.0	0.3	0.0	97.1	96.5
Minnesota, US	267	94.0	94.0	1.1	2.0	2.5	0.4	0.0	92.2	95.7
Ontario, Canada	503	92.2	92.2	1.6	1.9	2.6	0.9	0.9	91.9	92.5
Quebec, Canada	578	93.0	93.0	1.5	2.7	2.5	0.3	0.0	92.5	93.7

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S031230 - S13\_03)  
 Label: Birds/bats/butterflies share  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	537	61.2	8.2	5.1	18.3	61.2	3.2	4.1	63.5	59.0
Armenia	577	83.3	5.2	2.8	5.6	83.3	3.1	0.0	80.5	85.9
Australia	580	91.9	0.5	1.3	4.5	91.9	0.4	1.4	91.3	92.7
Austria	691	91.2	0.9	1.0	5.8	91.2	1.1	0.0	91.2	91.2
Chinese Taipei	594	78.8	3.2	1.6	15.5	78.8	0.9	0.0	76.4	81.0
Colombia	672	65.8	9.3	2.2	13.2	65.8	3.8	5.7	64.1	67.2
Czech Republic	590	87.8	0.6	2.4	7.8	87.8	0.5	0.9	91.6	83.9
Denmark	506	86.2	3.9	1.9	6.1	86.2	0.8	1.0	89.6	82.5
El Salvador	588	65.5	11.8	3.1	10.3	65.5	3.6	5.6	63.8	67.2
England	631	93.5	1.9	0.6	3.0	93.5	1.0	0.0	95.4	91.8
Georgia	588	81.5	6.9	2.4	5.5	81.5	1.1	2.7	81.6	81.4
Germany	734	92.2	1.7	0.8	3.3	92.2	1.2	0.9	92.7	91.7
Hong Kong SAR	540	80.7	2.5	1.1	15.4	80.7	0.2	0.0	81.4	80.0
Hungary	587	84.6	2.3	1.4	8.5	84.6	1.9	1.4	86.6	82.4
Iran, Islamic Rep. of	534	56.3	16.4	3.1	18.8	56.3	3.6	1.8	56.0	56.6
Italy	635	85.6	2.9	1.2	9.0	85.6	0.7	0.7	85.0	86.3
Japan	639	92.2	3.2	1.1	1.9	92.2	1.4	0.2	92.0	92.4
Kazakhstan	571	87.7	5.1	1.7	4.4	87.7	1.1	0.0	90.7	84.4
Kuwait	525	55.4	11.2	6.0	18.3	55.4	6.5	2.5	64.3	45.1
Latvia	562	89.1	0.8	2.2	6.6	89.1	1.3	0.0	89.5	88.6
Lithuania	572	89.9	1.8	0.4	4.8	89.9	2.9	0.3	92.2	87.5
Morocco	536	45.3	15.2	6.8	21.2	45.3	9.0	2.4	43.3	47.0
Netherlands	480	89.8	1.1	1.0	7.1	89.8	1.0	0.0	89.7	89.9
New Zealand	718	91.3	2.3	1.0	3.7	91.3	1.2	0.4	93.7	88.8
Norway	591	87.3	4.6	0.9	3.3	87.3	1.3	2.6	87.1	87.5
Qatar	989	44.6	17.8	14.0	17.4	44.6	3.8	2.4	48.5	40.5
Russian Federation	644	89.8	1.9	1.0	5.9	89.8	0.6	0.8	93.1	86.6
Scotland	576	93.4	0.7	1.3	2.8	93.4	1.1	0.7	94.3	92.5
Singapore	714	93.3	2.5	0.7	3.1	93.3	0.5	0.0	94.7	91.9
Slovak Republic	715	89.7	2.9	1.1	5.6	89.7	0.5	0.4	89.8	89.6
Slovenia	625	87.8	3.5	2.0	4.2	87.8	2.0	0.5	88.4	87.2
Sweden	662	94.0	2.3	0.2	1.8	94.0	1.3	0.3	94.5	93.5
Tunisia	594	52.0	5.5	3.6	8.8	52.0	24.3	5.7	58.3	46.1
Ukraine	608	83.8	3.1	2.4	8.8	83.8	1.2	0.7	82.5	85.1
United States	1128	95.7	0.8	0.4	1.6	95.7	1.2	0.3	95.9	95.5
Yemen	818	33.4	14.6	13.9	27.1	33.4	8.9	2.1	35.8	31.4
International Avg.	635	79.8	5.0	2.6	8.6	79.8	2.7	1.3	80.8	78.7
Alberta, Canada	564	93.2	2.1	0.2	3.1	93.2	1.1	0.3	94.5	91.7
British Columbia, Canada	591	93.0	1.0	0.5	3.4	93.0	1.5	0.5	94.5	91.6
Dubai, UAE	434	78.5	7.1	2.6	8.6	78.5	2.8	0.3	83.9	73.7
Massachusetts, US	246	97.5	0.9	0.4	0.9	97.5	0.3	0.0	95.8	99.1
Minnesota, US	267	95.4	1.7	0.2	1.6	95.4	1.1	0.0	95.1	95.7
Ontario, Canada	503	93.5	1.6	0.2	2.4	93.5	1.4	0.9	92.5	94.4
Quebec, Canada	578	91.3	1.5	0.4	5.5	91.3	1.2	0.0	93.4	88.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031325 - S13\_04)  
 Label: Manuel's temperature rise  
 Type: CR Key: -

COUNTRY	N	10	70	71	79	OMIT TED	NOT REACH ED	NOT		
								V1 %Right	2.BOY %Right	
Algeria	592	15.0	0.9	3.9	30.9	44.4	4.8	15.0	16.4	13.7
Armenia	580	53.6	0.2	0.7	12.8	32.7	0.0	53.6	58.6	49.1
Australia	580	37.7	1.2	35.4	19.6	4.7	1.4	37.7	39.1	36.2
Austria	691	30.7	0.3	26.0	25.0	18.0	0.0	30.7	34.6	27.6
Chinese Taipei	594	56.4	3.5	19.6	11.9	8.6	0.0	56.4	56.3	56.5
Colombia	672	16.7	2.3	11.3	30.0	32.5	7.1	16.7	16.9	16.6
Czech Republic	590	47.5	10.2	15.4	14.9	11.2	0.9	47.5	48.2	46.8
Denmark	505	59.3	1.5	13.9	14.2	9.6	1.4	59.3	60.9	57.6
El Salvador	591	16.9	2.3	3.1	35.6	35.7	6.4	16.9	18.7	15.2
England	631	24.1	0.6	44.2	23.0	8.0	0.1	24.1	26.2	22.2
Georgia	588	42.1	2.7	5.2	18.2	28.9	2.9	42.1	48.7	35.7
Germany	734	20.1	0.6	40.6	22.8	14.7	1.2	20.1	22.7	17.7
Hong Kong SAR	540	63.6	1.6	12.7	17.9	4.3	0.0	63.6	66.3	60.7
Hungary	587	60.8	5.7	8.5	11.8	11.9	1.4	60.8	60.4	61.3
Iran, Islamic Rep. of	534	14.6	3.8	13.8	28.6	36.6	2.6	14.6	14.2	15.0
Italy	640	59.9	5.0	12.1	11.4	10.6	1.0	59.9	61.7	58.0
Japan	639	41.3	6.0	28.4	21.2	2.9	0.2	41.3	44.5	38.1
Kazakhstan	571	51.1	22.6	5.3	15.0	5.9	0.0	51.1	55.1	46.8
Kuwait	525	5.2	2.8	4.5	26.1	58.2	3.1	5.2	6.7	3.5
Latvia	562	62.1	10.7	12.3	10.1	4.8	0.0	62.1	67.8	55.9
Lithuania	572	48.9	6.0	15.8	18.8	10.3	0.3	48.9	52.4	45.2
Morocco	552	6.1	1.8	4.0	28.0	56.9	3.1	6.1	5.6	6.6
Netherlands	480	57.4	2.1	20.4	17.6	2.5	0.0	57.4	64.7	50.6
New Zealand	718	29.7	1.0	29.9	27.2	11.8	0.4	29.7	33.6	25.7
Norway	591	55.6	2.2	13.7	15.3	9.8	3.4	55.6	55.1	56.1
Qatar	989	3.1	3.5	3.7	28.9	57.9	2.8	3.1	4.0	2.3
Russian Federation	644	59.3	10.4	5.7	14.4	9.4	0.9	59.3	59.4	59.1
Scotland	576	25.1	1.9	38.9	19.2	14.2	0.7	25.1	25.4	24.8
Singapore	714	51.3	1.8	20.5	24.3	2.1	0.0	51.3	49.6	53.0
Slovak Republic	715	51.5	10.9	12.4	13.6	11.2	0.4	51.5	52.9	50.2
Slovenia	625	51.7	8.1	6.2	20.2	12.8	0.8	51.7	54.1	49.7
Sweden	662	48.1	9.7	18.7	13.6	9.0	1.0	48.1	55.5	40.1
Tunisia	594	10.6	6.6	8.3	40.7	26.5	7.2	10.6	15.1	6.4
Ukraine	608	31.4	7.8	12.6	23.1	24.4	0.7	31.4	31.5	31.4
United States	1128	46.6	5.3	26.1	18.1	3.3	0.6	46.6	48.6	44.5
Yemen	818	6.5	0.6	0.6	39.2	50.6	2.6	6.5	7.4	5.7
International Avg.	637	37.8	4.6	15.4	21.2	19.4	1.6	37.8	40.0	35.7
Alberta, Canada	564	40.2	3.0	30.2	19.0	7.2	0.3	40.2	43.6	36.7
British Columbia, Canada	591	35.1	2.2	34.9	17.3	10.0	0.5	35.1	40.8	29.3
Dubai, UAE	434	25.7	5.9	8.7	30.9	28.2	0.6	25.7	26.7	24.8
Massachusetts, US	246	53.9	3.2	29.1	12.7	1.0	0.0	53.9	58.4	49.5
Minnesota, US	267	47.0	3.8	30.8	16.8	1.5	0.0	47.0	52.9	41.6
Ontario, Canada	503	40.2	3.6	30.8	17.6	6.7	1.1	40.2	46.8	34.2
Quebec, Canada	578	32.2	1.2	31.2	22.1	13.3	0.0	32.2	33.2	31.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Reasoning (S031068 - S13\_05)  
 Label: Maria's experiment with salt/water  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	568	24.9	24.9	19.2	25.4	18.1	6.4	5.9	27.5	22.5
Armenia	571	42.0	42.0	13.0	12.5	9.8	22.5	0.2	50.5	34.2
Australia	580	56.4	56.4	21.1	11.1	7.6	2.0	1.8	55.1	57.9
Austria	491	49.9	49.9	15.3	17.1	7.8	9.9	0.0	47.9	51.4
Chinese Taipei	594	60.1	60.1	16.7	15.0	4.3	3.8	0.0	62.1	58.4
Colombia	672	29.9	29.9	19.8	21.8	11.9	6.6	10.0	27.0	32.3
Czech Republic	591	47.4	47.4	18.6	21.8	3.9	7.1	1.2	49.9	44.8
Denmark	505	48.8	48.8	18.4	17.6	5.7	8.1	1.4	50.6	46.8
El Salvador	589	23.3	23.3	17.4	29.0	10.6	12.2	7.6	21.1	25.3
England	631	62.2	62.2	19.8	7.7	7.8	2.2	0.3	66.3	58.5
Georgia	588	26.1	26.1	14.1	25.3	18.0	13.4	3.2	30.0	22.3
Germany	734	57.7	57.7	18.4	13.5	4.2	4.8	1.4	56.9	58.5
Hong Kong SAR	540	66.8	66.8	13.0	14.1	5.0	1.1	0.0	66.7	66.8
Hungary	587	54.8	54.8	15.9	15.4	6.3	5.3	2.4	54.5	55.0
Iran, Islamic Rep. of	534	32.3	32.3	19.8	24.7	9.5	9.6	4.2	35.6	28.9
Italy	639	53.8	53.8	19.4	16.1	5.5	4.1	1.1	56.1	51.5
Japan	639	62.1	62.1	15.3	17.3	4.0	1.1	0.2	65.6	58.6
Kazakhstan	571	49.5	49.5	18.6	21.8	8.3	1.8	0.0	53.8	44.8
Kuwait	525	24.1	24.1	25.0	16.0	16.9	13.4	4.6	25.3	22.8
Latvia	562	66.3	66.3	20.2	7.0	3.7	2.8	0.0	70.4	61.9
Lithuania	572	52.0	52.0	17.5	21.4	5.0	3.3	0.8	57.6	46.3
Morocco	545	21.8	21.8	23.9	23.0	14.9	12.1	4.3	23.8	19.7
Netherlands	480	43.8	43.8	35.7	15.2	2.0	3.2	0.0	45.7	42.1
New Zealand	718	54.2	54.2	19.3	15.4	6.8	3.7	0.6	59.6	48.6
Norway	591	41.0	41.0	20.2	22.4	6.4	6.5	3.4	39.6	42.7
Qatar	989	28.2	28.2	26.2	18.4	12.4	10.7	4.1	29.4	26.9
Russian Federation	644	52.9	52.9	12.9	22.5	7.7	2.6	1.5	58.7	47.4
Scotland	576	51.8	51.8	18.8	11.8	8.1	8.7	0.8	52.1	51.5
Singapore	714	68.1	68.1	13.4	12.4	5.6	0.4	0.0	69.0	67.3
Slovak Republic	715	44.8	44.8	16.9	25.4	5.7	6.9	0.5	42.7	46.9
Slovenia	625	43.8	43.8	24.0	17.3	7.4	5.8	1.7	45.7	42.2
Sweden	662	47.4	47.4	22.5	21.0	3.6	4.3	1.3	51.1	43.4
Tunisia	594	15.5	15.5	20.1	25.9	8.0	23.1	7.5	18.7	12.6
Ukraine	608	39.4	39.4	17.3	26.4	12.7	3.4	0.8	42.3	36.5
United States	1128	64.3	64.3	14.9	11.6	6.8	1.5	0.8	60.6	68.0
Yemen	818	18.3	18.3	24.9	27.9	11.8	13.5	3.7	19.4	17.3
International Avg.	636	45.2	45.2	19.1	18.6	8.2	6.9	2.1	46.9	43.4
Alberta, Canada	564	60.1	60.1	19.2	10.6	7.2	2.4	0.4	56.6	63.8
British Columbia, Canada	591	57.6	57.6	19.8	11.0	5.8	5.0	0.7	59.2	56.0
Dubai, UAE	434	48.4	48.4	22.2	17.8	4.2	6.7	0.6	47.1	49.6
Massachusetts, US	246	77.0	77.0	11.0	6.5	4.9	0.3	0.3	75.8	78.1
Minnesota, US	267	61.8	61.8	20.5	11.4	5.1	1.1	0.0	60.5	63.0
Ontario, Canada	503	53.9	53.9	19.5	14.4	8.3	1.9	2.0	57.5	50.6
Quebec, Canada	578	45.7	45.7	21.9	20.2	7.8	4.1	0.3	45.5	45.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031418 - S13\_06)  
 Label: Position of a piece of ice in water  
 Type: MC Key: B

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	564	8.9	27.5	8.9	12.1	38.6	6.8	6.1	6.3	11.3
Armenia	580	30.9	17.6	30.9	7.9	37.6	5.7	0.2	34.6	27.6
Australia	580	61.1	10.8	61.1	10.1	14.9	1.2	1.9	58.4	64.1
Austria	691	45.8	14.6	45.8	17.5	20.5	1.4	0.2	38.5	51.5
Chinese Taipei	594	64.2	14.5	64.2	3.4	17.1	0.8	0.0	58.4	69.3
Colombia	672	18.0	26.1	18.0	7.5	35.2	2.6	10.6	17.0	18.9
Czech Republic	591	45.8	19.4	45.8	2.3	29.1	2.1	1.2	38.3	53.3
Denmark	506	66.6	8.9	66.6	7.7	14.6	0.1	2.1	62.3	71.3
El Salvador	589	17.3	27.4	17.3	15.5	27.9	3.7	8.2	12.9	21.5
England	631	45.1	8.4	45.1	22.1	22.5	1.6	0.4	42.1	47.8
Georgia	588	12.6	22.0	12.6	15.0	41.5	4.6	4.3	8.9	16.2
Germany	734	39.4	11.6	39.4	22.9	23.2	1.3	1.5	37.5	41.2
Hong Kong SAR	540	52.6	10.5	52.6	21.3	15.3	0.1	0.3	48.9	56.3
Hungary	587	31.8	16.3	31.8	11.9	35.7	1.7	2.7	25.5	38.4
Iran, Islamic Rep. of	534	12.2	30.8	12.2	11.4	37.9	3.3	4.4	7.7	16.8
Italy	641	30.8	16.0	30.8	22.4	28.3	0.8	1.7	27.1	34.5
Japan	639	77.3	5.8	77.3	4.2	12.0	0.5	0.2	75.5	79.1
Kazakhstan	571	25.8	32.1	25.8	3.1	39.0	0.0	0.0	27.9	23.5
Kuwait	525	26.0	25.7	26.0	13.8	23.5	5.9	5.0	26.1	26.0
Latvia	562	55.0	15.4	55.0	7.2	21.7	0.8	0.0	54.2	55.8
Lithuania	572	41.3	12.0	41.3	10.4	34.1	1.2	1.0	37.8	45.0
Morocco	539	11.3	19.5	11.3	21.7	33.3	8.3	5.9	11.7	11.0
Netherlands	480	45.0	3.8	45.0	26.2	23.8	1.1	0.0	37.9	51.7
New Zealand	718	46.3	14.9	46.3	15.2	19.5	3.7	0.6	43.8	48.8
Norway	591	46.0	18.8	46.0	14.7	15.3	0.9	4.3	43.5	49.0
Qatar	989	22.2	23.6	22.2	10.1	35.8	4.2	4.1	19.8	24.6
Russian Federation	644	43.5	15.3	43.5	3.7	34.9	0.9	1.6	38.5	48.3
Scotland	576	41.3	12.2	41.3	23.8	20.0	2.0	0.8	41.6	40.9
Singapore	714	79.8	7.7	79.8	3.3	8.6	0.5	0.0	79.2	80.5
Slovak Republic	715	31.1	20.8	31.1	8.0	37.0	2.7	0.5	25.8	36.4
Slovenia	625	41.4	15.9	41.4	10.9	28.9	0.7	2.1	36.6	45.7
Sweden	662	56.0	9.6	56.0	13.2	18.6	1.1	1.5	56.3	55.5
Tunisia	594	9.0	12.9	9.0	12.5	37.8	19.8	8.0	9.0	9.0
Ukraine	608	26.6	19.4	26.6	3.9	48.3	1.0	0.8	21.4	31.8
United States	1128	61.4	9.1	61.4	14.9	11.9	1.9	0.8	57.3	65.5
Yemen	818	13.1	22.0	13.1	19.7	26.7	14.8	3.7	11.0	14.8
International Avg.	636	38.4	16.6	38.4	12.5	27.0	3.1	2.4	35.5	41.2
Alberta, Canada	564	62.2	8.1	62.2	13.1	13.6	2.3	0.7	55.9	68.8
British Columbia, Canada	591	62.0	7.9	62.0	14.6	12.2	2.4	0.9	57.8	66.4
Dubai, UAE	434	33.3	19.2	33.3	13.5	29.8	3.5	0.7	31.3	35.1
Massachusetts, US	246	69.3	4.6	69.3	13.2	10.6	2.0	0.3	64.5	74.0
Minnesota, US	267	69.9	7.3	69.9	11.5	10.0	1.3	0.0	67.0	72.6
Ontario, Canada	503	59.0	8.7	59.0	12.8	14.7	2.4	2.4	49.9	67.3
Quebec, Canada	578	58.8	9.9	58.8	14.5	14.6	1.8	0.5	53.0	65.9

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Physical Science / Knowing (S031197A - S13\_07A)  
 Label: Two uses of electricity  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	21.1	0.5	12.8	0.5	0.2	1.6	37.9	19.1	6.3	35.0	37.2	33.0
Armenia	580	28.9	9.2	12.5	0.3	3.3	0.2	17.3	28.1	0.2	54.2	56.3	52.3
Australia	580	30.8	5.0	41.7	1.7	1.4	6.2	8.3	2.5	2.4	80.6	81.8	79.2
Austria	691	38.1	11.9	24.5	0.1	0.1	3.5	9.9	11.6	0.2	74.7	68.1	79.9
Chinese Taipei	594	31.5	1.7	45.7	1.3	3.0	8.6	4.7	3.5	0.0	83.2	79.8	86.1
Colombia	672	19.7	2.1	17.3	0.0	0.6	3.9	24.9	20.5	11.1	39.7	39.7	39.7
Czech Republic	591	32.4	4.9	27.5	0.4	1.5	4.5	12.4	15.4	1.2	66.6	62.3	71.0
Denmark	506	41.6	1.8	33.2	0.3	0.2	2.7	10.1	8.1	2.1	77.1	77.1	77.1
El Salvador	591	14.2	2.1	25.7	0.0	0.3	6.3	20.9	22.4	8.2	42.3	43.5	41.1
England	631	38.7	2.5	43.7	1.5	0.0	5.1	5.7	2.4	0.4	86.4	86.8	86.1
Georgia	588	23.3	2.1	16.6	0.1	1.3	2.1	14.3	35.8	4.5	43.3	43.2	43.5
Germany	734	39.2	5.7	28.7	1.5	0.0	7.5	7.5	8.4	1.5	75.0	71.7	78.3
Hong Kong SAR	540	39.6	8.6	38.5	0.3	0.4	4.0	6.1	2.3	0.3	87.4	87.9	86.9
Hungary	587	30.6	5.4	42.3	2.6	0.3	1.9	6.8	7.2	3.0	81.1	79.1	83.3
Iran, Islamic Rep. of	536	29.2	2.2	20.8	1.3	1.0	0.9	25.3	14.2	5.1	54.5	56.4	52.5
Italy	641	45.7	1.4	28.9	0.7	0.0	1.8	8.6	11.0	1.9	76.7	75.6	77.9
Japan	639	10.4	0.2	73.3	0.2	0.3	0.2	13.7	1.5	0.2	84.4	84.3	84.4
Kazakhstan	571	47.7	3.9	28.9	0.0	0.0	0.9	12.9	5.7	0.0	80.5	82.3	78.4
Kuwait	525	17.9	0.1	27.5	0.3	2.1	0.4	19.3	27.0	5.4	47.9	57.1	37.4
Latvia	562	27.3	1.5	42.6	0.1	0.0	8.2	19.8	0.3	0.3	71.5	72.6	70.2
Lithuania	572	32.4	1.1	44.2	0.0	0.0	3.8	7.0	10.4	1.2	77.6	78.0	77.2
Morocco	552	20.9	0.1	5.9	0.0	0.1	0.2	24.8	42.1	5.9	27.0	28.2	25.7
Netherlands	480	32.1	3.5	47.5	0.1	0.3	4.7	10.7	1.2	0.0	83.5	83.1	83.8
New Zealand	718	26.4	4.3	38.0	1.7	7.8	5.3	9.8	6.0	0.6	78.3	82.2	74.3
Norway	591	35.6	1.8	30.2	0.2	0.0	3.3	14.7	10.0	4.3	67.8	63.0	73.3
Qatar	989	11.1	0.1	18.7	0.8	1.4	4.0	29.8	29.9	4.2	32.1	36.0	27.9
Russian Federation	644	34.8	1.1	37.4	1.3	0.2	0.7	15.2	7.8	1.6	74.7	76.0	73.4
Scotland	576	31.1	5.9	42.8	1.4	0.0	3.1	8.5	6.4	0.8	81.2	84.1	78.2
Singapore	714	31.1	2.2	42.3	0.4	13.0	4.2	6.5	0.4	0.0	88.9	90.5	87.4
Slovak Republic	715	30.9	9.0	37.5	0.2	0.2	1.5	8.8	11.1	0.7	77.9	82.0	73.8
Slovenia	625	36.3	2.4	34.3	0.2	0.5	2.5	14.5	7.1	2.1	73.7	72.9	74.4
Sweden	662	34.8	2.4	41.9	0.0	0.1	5.9	4.8	8.1	2.0	79.2	81.8	76.4
Tunisia	594	18.9	1.6	17.4	0.5	0.1	0.6	29.7	22.7	8.5	38.5	44.8	32.6
Ukraine	608	12.4	0.5	28.0	0.5	1.5	4.2	25.8	25.7	1.3	42.9	40.5	45.4
United States	1128	46.7	2.6	29.7	1.6	0.3	8.7	7.1	2.2	1.0	81.0	82.2	79.8
Yemen	818	10.4	1.1	7.0	0.5	0.1	0.9	33.1	43.1	3.9	19.1	21.2	17.3
International Avg.	637	29.3	3.1	31.5	0.6	1.1	3.4	14.9	13.4	2.6	65.7	66.4	65.0
Alberta, Canada	564	44.9	4.7	27.2	3.2	4.9	3.2	8.1	3.1	0.7	84.9	84.6	85.3
British Columbia, Canada	591	43.7	2.5	27.4	1.9	6.8	3.6	8.7	4.3	1.0	82.4	81.0	83.7
Dubai, UAE	434	30.2	0.7	28.4	1.2	1.0	5.4	15.5	17.0	0.7	61.4	61.4	61.4
Massachusetts, US	246	55.0	4.9	31.3	1.0	0.3	2.9	2.7	1.5	0.3	92.5	92.4	92.6
Minnesota, US	267	45.7	2.8	30.7	2.2	0.0	8.5	6.9	3.2	0.0	81.4	84.3	78.6
Ontario, Canada	503	42.3	3.0	31.4	2.1	4.1	2.4	10.4	1.2	3.2	82.9	82.2	83.5
Quebec, Canada	578	40.9	5.0	24.0	0.7	8.6	2.9	10.8	6.6	0.5	79.2	75.3	84.0

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031197B - S13\_07B)  
 Label: Two uses of electricity  
 Type: CR Key: -

COUNTRY	N	10	11	12	13	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	6.4	1.3	14.3	0.2	0.3	1.5	43.1	26.5	6.3	22.5	24.7	20.6
Armenia	580	14.5	12.7	15.7	1.5	3.1	1.4	19.4	31.5	0.2	47.5	51.7	43.7
Australia	580	14.5	5.5	53.0	2.9	1.0	5.0	12.4	3.3	2.4	76.9	78.9	74.7
Austria	691	12.1	12.5	44.5	0.5	0.2	4.2	11.1	14.7	0.2	69.8	63.7	74.6
Chinese Taipei	594	10.6	1.7	56.0	3.9	2.7	9.8	8.8	6.6	0.0	74.9	74.1	75.6
Colombia	672	6.3	2.6	17.1	0.0	0.7	4.3	35.3	22.6	11.1	26.6	24.6	28.3
Czech Republic	591	11.8	10.2	30.5	1.6	2.4	4.4	14.9	22.9	1.2	56.5	56.8	56.3
Denmark	506	12.9	7.4	47.4	0.5	0.3	4.9	14.2	10.1	2.1	68.6	71.7	65.1
El Salvador	591	8.5	1.4	27.1	0.2	0.5	2.4	24.0	27.9	8.2	37.6	37.2	37.9
England	631	16.2	5.3	55.2	2.1	0.0	7.2	10.2	3.3	0.4	78.8	80.7	77.1
Georgia	588	6.9	4.1	24.0	1.0	0.8	1.5	16.7	40.5	4.5	36.8	34.9	38.7
Germany	734	17.5	8.1	43.3	1.1	0.1	7.7	9.1	11.6	1.5	70.1	66.4	73.6
Hong Kong SAR	540	11.0	9.3	53.3	0.6	0.4	5.6	13.4	6.0	0.3	74.7	77.6	71.7
Hungary	587	9.0	3.8	58.2	2.9	0.2	3.2	10.8	8.9	3.0	74.2	73.0	75.4
Iran, Islamic Rep. of	536	11.5	7.4	28.4	2.1	0.6	0.9	24.2	19.8	5.1	50.0	53.8	46.1
Italy	641	13.4	4.9	46.4	1.1	0.3	2.4	15.6	14.1	1.9	66.0	65.9	66.2
Japan	639	9.4	0.6	72.1	0.0	0.0	0.2	14.7	2.8	0.2	82.0	83.8	80.2
Kazakhstan	571	13.7	10.4	44.9	1.5	0.0	1.1	19.4	8.9	0.0	70.6	75.7	65.1
Kuwait	525	7.8	0.4	33.1	0.6	1.9	0.0	21.8	28.9	5.4	43.9	52.2	34.3
Latvia	562	21.4	1.7	44.1	0.6	0.6	6.4	22.8	2.0	0.3	68.5	67.4	69.7
Lithuania	572	12.5	2.4	53.2	0.2	1.3	3.5	12.1	13.6	1.2	69.6	68.0	71.3
Morocco	552	10.3	0.3	6.6	0.3	0.1	0.0	30.5	45.9	5.9	17.7	18.9	16.7
Netherlands	480	20.7	4.9	51.4	0.8	0.7	5.9	13.8	1.8	0.0	78.5	75.1	81.7
New Zealand	718	14.0	6.2	43.4	2.7	5.9	6.2	14.9	6.1	0.6	72.2	75.4	69.0
Norway	591	10.3	7.1	40.9	0.7	0.0	7.0	16.6	13.1	4.3	59.0	56.6	61.9
Qatar	989	5.2	0.5	19.8	0.4	3.6	1.8	34.4	30.0	4.2	29.6	34.3	24.6
Russian Federation	644	12.9	3.0	46.7	3.2	1.8	1.3	17.0	12.5	1.6	67.6	70.7	64.6
Scotland	576	13.6	8.5	53.2	1.6	0.0	4.3	10.1	7.9	0.8	76.8	80.5	73.1
Singapore	714	13.2	2.8	55.9	0.4	13.7	3.6	9.6	0.7	0.0	86.1	86.1	86.1
Slovak Republic	715	11.2	12.6	41.0	3.0	1.4	2.1	14.2	13.9	0.7	69.2	73.8	64.5
Slovenia	625	13.0	5.8	41.9	0.5	1.3	2.9	21.6	10.7	2.1	62.6	62.9	62.3
Sweden	662	16.7	6.4	47.8	0.9	0.1	6.2	10.7	9.3	2.0	71.8	76.8	66.4
Tunisia	594	5.1	2.7	17.5	0.8	0.0	0.0	38.3	27.2	8.5	26.0	29.6	22.6
Ukraine	608	4.7	1.2	16.6	0.7	1.7	4.5	36.8	32.5	1.3	24.9	24.7	25.2
United States	1128	14.8	6.4	47.5	3.8	1.1	10.5	12.2	2.7	1.0	73.5	72.3	74.7
Yemen	818	2.6	1.7	8.8	0.6	0.3	0.9	37.6	43.4	3.9	14.1	15.3	13.1
International Avg.	637	11.6	5.1	38.9	1.3	1.4	3.8	19.2	16.2	2.6	58.2	59.3	57.0
Alberta, Canada	564	14.3	7.9	45.0	3.3	6.0	4.8	14.3	3.7	0.7	76.5	77.5	75.5
British Columbia, Canada	591	16.6	6.5	41.6	1.2	6.5	4.5	16.4	5.7	1.0	72.4	74.6	70.2
Dubai, UAE	434	8.1	3.2	40.8	2.6	1.0	5.3	20.1	18.1	0.7	55.8	57.7	54.0
Massachusetts, US	246	15.0	8.1	54.9	3.8	0.3	11.1	5.0	1.5	0.3	82.1	82.8	81.5
Minnesota, US	267	15.5	3.6	48.4	3.7	0.8	10.5	14.0	3.6	0.0	71.9	74.4	69.7
Ontario, Canada	503	16.7	5.8	43.5	2.9	7.0	1.6	16.8	2.5	3.2	75.9	71.4	80.1
Quebec, Canada	578	17.0	7.0	35.5	1.2	4.5	3.8	21.8	8.8	0.5	65.2	65.5	64.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S031197D - S13\_07D)  
 Label: Two uses of electricity/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT	V1	V2	1.GIRL %Right	2.BOY %Right
						REACH ED				
Algeria	591	18.8	20.0	35.9	18.9	6.3	38.8	18.8	21.1	16.6
Armenia	580	46.6	8.6	19.9	24.7	0.2	55.2	46.6	50.8	42.8
Australia	580	71.4	14.7	9.0	2.5	2.4	86.1	71.4	73.2	69.4
Austria	691	65.5	13.6	9.1	11.6	0.2	79.0	65.5	58.6	70.9
Chinese Taipei	594	69.0	20.0	7.7	3.3	0.0	89.0	69.0	66.5	71.2
Colombia	672	22.6	21.1	25.9	19.3	11.1	43.7	22.6	20.7	24.2
Czech Republic	591	51.2	20.7	11.5	15.4	1.2	71.9	51.2	48.7	53.8
Denmark	506	64.1	17.5	8.3	8.0	2.1	81.6	64.1	66.8	61.1
El Salvador	591	32.1	15.6	22.6	21.5	8.2	47.7	32.1	30.9	33.3
England	631	75.0	15.1	7.0	2.4	0.4	90.2	75.0	75.3	74.8
Georgia	588	33.5	13.2	13.2	35.7	4.5	46.7	33.5	31.5	35.3
Germany	734	62.3	20.6	7.4	8.3	1.5	82.8	62.3	58.4	66.0
Hong Kong SAR	540	70.0	22.0	5.3	2.3	0.3	92.1	70.0	72.3	67.7
Hungary	587	71.8	11.6	6.7	6.9	3.0	83.5	71.8	70.0	73.7
Iran, Islamic Rep. of	536	44.2	16.1	20.5	14.0	5.1	60.3	44.2	46.0	42.4
Italy	641	60.9	20.9	5.7	10.6	1.9	81.8	60.9	58.1	63.8
Japan	639	73.9	18.5	5.8	1.5	0.2	92.5	73.9	75.8	72.0
Kazakhstan	571	65.1	20.9	8.5	5.5	0.0	86.0	65.1	68.5	61.4
Kuwait	525	39.6	12.6	18.0	24.3	5.4	52.2	39.6	48.0	29.9
Latvia	562	53.2	33.6	12.7	0.3	0.3	86.8	53.2	53.5	52.8
Lithuania	572	66.3	14.7	7.5	10.4	1.2	81.0	66.3	64.7	67.9
Morocco	552	11.9	20.9	22.0	39.3	5.9	32.8	11.9	12.6	11.3
Netherlands	480	70.5	20.9	7.6	1.0	0.0	91.4	70.5	67.4	73.5
New Zealand	718	68.3	13.9	12.1	5.1	0.6	82.2	68.3	71.8	64.7
Norway	591	52.5	21.9	11.4	10.0	4.3	74.4	52.5	50.2	55.0
Qatar	989	24.8	12.0	35.1	23.9	4.2	36.8	24.8	29.1	20.4
Russian Federation	644	65.2	11.8	13.6	7.8	1.6	77.0	65.2	68.3	62.3
Scotland	576	71.8	14.3	6.6	6.4	0.8	86.2	71.8	76.6	67.0
Singapore	714	81.3	12.4	5.9	0.4	0.0	93.7	81.3	81.8	80.9
Slovak Republic	715	66.3	14.6	7.7	10.8	0.7	80.8	66.3	70.5	62.0
Slovenia	625	59.9	16.5	14.7	6.7	2.1	76.4	59.9	60.4	59.5
Sweden	662	67.0	16.9	6.3	7.7	2.0	84.0	67.0	71.7	62.1
Tunisia	594	22.3	20.0	27.1	22.1	8.5	42.2	22.3	25.7	19.1
Ukraine	608	21.0	25.8	26.1	25.7	1.3	46.9	21.0	20.7	21.3
United States	1128	67.2	20.1	9.4	2.2	1.0	87.4	67.2	67.0	67.4
Yemen	818	11.1	11.0	38.7	35.3	3.9	22.1	11.1	13.0	9.5
International Avg.	637	53.3	17.4	14.2	12.6	2.6	70.6	53.3	54.1	52.4
Alberta, Canada	564	70.1	21.3	4.9	3.1	0.7	91.3	70.1	70.2	70.0
British Columbia, Canada	591	67.5	19.8	7.4	4.3	1.0	87.3	67.5	68.1	66.9
Dubai, UAE	434	48.6	19.9	14.2	16.6	0.7	68.5	48.6	48.5	48.7
Massachusetts, US	246	80.6	13.6	4.1	1.5	0.3	94.1	80.6	82.0	79.1
Minnesota, US	267	68.0	17.2	11.5	3.2	0.0	85.3	68.0	71.5	64.8
Ontario, Canada	503	70.3	18.2	7.2	1.2	3.2	88.5	70.3	67.3	73.1
Quebec, Canada	578	61.1	22.2	9.7	6.6	0.5	83.3	61.1	60.6	61.6

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S031371 - S13\_08)  
 Label: Heat needed to change state of water  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	563	33.0	16.6	13.0	25.4	33.0	4.1	7.9	35.1	31.0
Armenia	576	49.4	18.1	17.1	9.2	49.4	5.7	0.5	49.3	49.5
Australia	580	47.2	23.5	8.7	16.8	47.2	1.1	2.6	44.9	49.8
Austria	691	67.6	16.4	7.0	6.0	67.6	2.4	0.6	71.6	64.4
Chinese Taipei	594	39.1	10.8	13.2	35.5	39.1	1.1	0.3	37.5	40.6
Colombia	672	29.4	11.3	18.3	23.9	29.4	4.7	12.3	31.3	27.9
Czech Republic	591	31.7	23.5	22.0	17.7	31.7	3.6	1.5	27.2	36.1
Denmark	501	30.3	28.2	15.1	19.2	30.3	5.0	2.3	34.6	25.6
El Salvador	589	23.6	12.1	29.1	21.0	23.6	3.4	10.8	26.5	20.9
England	631	57.0	18.8	9.4	12.7	57.0	1.8	0.4	61.6	52.8
Georgia	588	28.0	36.6	16.0	8.7	28.0	4.7	6.0	29.7	26.3
Germany	734	72.3	13.2	4.8	5.5	72.3	2.0	2.1	72.0	72.7
Hong Kong SAR	540	48.6	17.5	14.8	17.9	48.6	0.9	0.3	48.4	48.8
Hungary	587	54.1	16.8	11.2	11.5	54.1	2.8	3.5	52.3	56.1
Iran, Islamic Rep. of	536	34.9	14.9	22.8	16.9	34.9	4.3	6.1	37.8	32.0
Italy	636	51.3	18.3	8.8	12.7	51.3	5.7	3.2	50.3	52.4
Japan	639	44.1	29.0	12.6	12.7	44.1	0.9	0.7	46.3	41.8
Kazakhstan	571	49.0	28.6	15.8	6.1	49.0	0.5	0.1	48.9	49.1
Kuwait	525	38.0	8.6	12.1	27.7	38.0	5.5	8.1	44.4	30.6
Latvia	562	53.1	19.6	12.0	14.0	53.1	0.8	0.6	58.6	47.2
Lithuania	572	56.8	24.2	7.1	8.9	56.8	1.6	1.3	57.8	55.8
Morocco	548	28.0	8.6	16.9	28.7	28.0	10.2	7.7	27.3	28.9
Netherlands	480	34.1	53.2	8.9	3.6	34.1	0.0	0.1	40.4	28.2
New Zealand	718	46.6	22.3	9.8	17.9	46.6	1.8	1.5	44.5	48.8
Norway	591	45.4	23.3	12.9	10.4	45.4	2.4	5.6	47.2	43.3
Qatar	989	25.3	12.5	21.8	30.6	25.3	3.9	5.8	27.8	22.7
Russian Federation	644	65.9	16.7	4.9	9.7	65.9	0.7	2.2	67.4	64.4
Scotland	576	44.1	28.2	7.6	14.6	44.1	3.6	1.8	42.2	46.1
Singapore	714	68.5	17.6	4.5	9.0	68.5	0.3	0.0	68.9	68.1
Slovak Republic	715	42.8	16.2	18.9	17.6	42.8	3.4	1.1	42.5	43.1
Slovenia	625	65.5	8.2	8.4	13.0	65.5	2.1	2.7	67.3	63.9
Sweden	661	51.9	21.0	8.7	8.5	51.9	7.1	2.7	56.2	47.4
Tunisia	594	32.8	13.0	9.1	18.1	32.8	17.9	9.1	35.4	30.4
Ukraine	608	27.9	22.5	16.8	29.1	27.9	1.7	1.9	29.9	26.0
United States	1128	59.8	16.7	7.3	12.2	59.8	2.7	1.2	61.5	58.1
Yemen	818	21.3	9.9	22.6	32.8	21.3	8.6	4.9	23.4	19.6
International Avg.	636	44.4	19.4	13.1	16.3	44.4	3.6	3.3	45.8	43.1
Alberta, Canada	564	52.2	22.9	7.6	14.5	52.2	0.8	2.0	51.5	52.9
British Columbia, Canada	591	50.4	25.8	5.3	14.2	50.4	2.7	1.5	50.0	50.9
Dubai, UAE	434	45.4	20.7	9.9	17.6	45.4	3.2	3.4	44.8	45.9
Massachusetts, US	246	65.4	15.0	6.5	9.6	65.4	3.1	0.3	68.4	62.4
Minnesota, US	267	61.4	17.4	6.2	12.9	61.4	2.0	0.0	58.5	64.0
Ontario, Canada	503	53.8	17.3	7.5	15.9	53.8	1.8	3.6	57.7	50.2
Quebec, Canada	578	30.0	13.1	10.4	30.5	30.0	13.5	2.6	27.5	33.1

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Knowing (S031376 - S13\_09)  
 Label: Best soil for plants to grow in  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	561	20.7	26.7	17.0	23.1	20.7	4.4	8.1	18.1	23.2
Armenia	579	64.4	13.0	6.9	10.6	64.4	4.5	0.6	66.1	62.9
Australia	580	40.5	26.4	6.1	22.0	40.5	2.1	2.8	42.7	38.0
Austria	691	31.8	38.0	8.2	17.9	31.8	3.4	0.8	28.5	34.3
Chinese Taipei	594	57.4	21.1	5.0	15.4	57.4	0.8	0.3	55.7	59.0
Colombia	672	32.5	31.0	7.9	10.7	32.5	5.1	12.8	32.2	32.7
Czech Republic	591	73.8	11.8	8.6	2.7	73.8	1.6	1.5	76.0	71.6
Denmark	505	51.4	17.6	15.9	9.6	51.4	2.9	2.7	51.4	51.3
El Salvador	589	31.0	26.2	16.1	13.5	31.0	2.0	11.1	30.4	31.5
England	631	46.6	18.6	8.8	22.7	46.6	3.0	0.4	42.1	50.6
Georgia	588	31.1	38.2	8.9	11.0	31.1	4.1	6.7	28.8	33.3
Germany	734	30.1	36.0	9.7	19.5	30.1	2.3	2.5	28.3	31.9
Hong Kong SAR	540	50.5	22.5	20.3	5.7	50.5	0.8	0.3	50.2	50.8
Hungary	587	43.1	29.0	16.8	4.9	43.1	2.3	3.8	43.5	42.7
Iran, Islamic Rep. of	536	12.5	18.6	39.9	18.7	12.5	4.2	6.1	11.4	13.5
Italy	639	53.7	12.2	14.1	14.3	53.7	2.2	3.5	51.3	56.1
Japan	639	29.1	34.8	8.4	26.1	29.1	0.9	0.7	30.1	28.0
Kazakhstan	571	69.2	14.5	5.5	10.7	69.2	0.0	0.1	70.7	67.6
Kuwait	525	11.8	37.1	20.2	17.6	11.8	4.6	8.6	12.1	11.4
Latvia	562	70.1	16.4	4.4	7.7	70.1	0.8	0.6	70.9	69.3
Lithuania	572	21.3	37.5	22.2	15.2	21.3	2.3	1.6	21.6	21.0
Morocco	545	17.5	25.8	17.2	21.6	17.5	9.9	7.9	20.8	14.5
Netherlands	480	20.0	39.5	23.6	16.1	20.0	0.6	0.1	18.0	21.8
New Zealand	718	41.8	25.6	7.8	21.9	41.8	1.3	1.7	42.6	40.9
Norway	591	36.4	34.7	15.3	5.2	36.4	2.7	5.6	34.9	38.3
Qatar	989	17.1	30.1	26.4	15.2	17.1	5.2	6.0	16.3	17.9
Russian Federation	644	59.9	10.1	6.8	19.8	59.9	1.1	2.2	55.4	64.2
Scotland	576	33.9	20.1	5.9	35.3	33.9	2.6	2.1	30.6	37.2
Singapore	714	22.4	30.8	7.1	39.4	22.4	0.3	0.0	19.0	25.7
Slovak Republic	715	64.3	10.8	17.9	3.9	64.3	2.0	1.1	66.1	62.4
Slovenia	625	40.5	28.4	12.9	12.8	40.5	2.6	2.9	37.8	42.8
Sweden	662	58.8	13.8	18.4	5.2	58.8	0.8	2.9	61.1	56.4
Tunisia	594	17.8	24.3	16.0	15.6	17.8	17.1	9.2	17.5	18.1
Ukraine	608	42.0	11.1	14.4	28.5	42.0	2.1	2.0	44.0	40.0
United States	1128	48.1	18.5	5.7	23.1	48.1	3.1	1.5	46.5	49.7
Yemen	818	19.5	18.5	25.6	21.0	19.5	10.6	4.9	21.5	17.8
International Avg.	636	39.2	24.1	13.7	16.2	39.2	3.2	3.5	38.7	39.7
Alberta, Canada	564	63.0	16.3	5.5	11.5	63.0	1.7	2.0	63.9	62.1
British Columbia, Canada	591	46.5	24.4	6.6	18.0	46.5	2.9	1.6	45.9	47.0
Dubai, UAE	434	36.1	29.9	10.4	17.9	36.1	2.3	3.4	36.2	36.0
Massachusetts, US	246	57.6	14.2	1.6	23.3	57.6	1.8	1.5	56.4	58.8
Minnesota, US	267	38.4	27.7	10.1	20.8	38.4	3.0	0.0	42.7	34.4
Ontario, Canada	503	51.1	21.6	8.5	13.3	51.1	1.7	3.8	49.4	52.7
Quebec, Canada	578	42.7	21.6	13.8	15.7	42.7	3.5	2.7	39.4	46.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Reasoning (S031044 - S13\_10)  
 Label: Label Earth, Moon, and Sun  
 Type: CR Key: -

COUNTRY	N	10	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
								%Right	%Right
Algeria	591	16.0	14.0	56.7	5.1	8.1	16.0	15.8	16.2
Armenia	580	56.9	3.0	30.5	8.9	0.6	56.9	61.3	52.9
Australia	580	49.2	11.5	34.5	2.0	2.9	49.2	39.2	60.2
Austria	691	45.6	9.5	40.7	3.0	1.1	45.6	35.7	53.3
Chinese Taipei	594	51.2	8.8	38.1	1.7	0.3	51.2	45.6	56.1
Colombia	672	23.0	11.4	44.5	7.2	14.0	23.0	19.1	26.2
Czech Republic	585	44.9	11.3	36.2	5.5	2.1	44.9	41.4	48.4
Denmark	504	44.6	20.9	25.9	5.8	2.8	44.6	37.1	52.9
El Salvador	591	14.5	9.7	55.2	8.9	11.7	14.5	12.1	16.7
England	631	65.1	10.1	22.5	2.0	0.4	65.1	59.9	69.7
Georgia	588	22.6	4.8	44.0	20.5	8.2	22.6	23.0	22.2
Germany	734	45.7	9.5	39.4	2.8	2.6	45.7	39.9	51.3
Hong Kong SAR	540	65.1	10.2	24.1	0.2	0.5	65.1	54.8	75.7
Hungary	587	45.1	11.8	36.9	1.7	4.5	45.1	41.1	49.3
Iran, Islamic Rep. of	536	28.6	14.5	41.2	8.1	7.6	28.6	28.8	28.5
Italy	639	43.8	9.5	37.5	5.4	3.8	43.8	41.5	46.0
Japan	639	52.5	11.6	34.8	0.3	0.8	52.5	43.6	61.7
Kazakhstan	571	67.1	6.4	24.4	2.0	0.1	67.1	67.5	66.7
Kuwait	525	32.7	8.4	39.2	10.4	9.3	32.7	33.4	32.0
Latvia	562	66.8	9.4	22.8	0.5	0.6	66.8	62.8	71.0
Lithuania	572	52.3	14.4	29.6	1.8	1.9	52.3	47.9	56.7
Morocco	552	16.4	4.0	63.5	7.6	8.6	16.4	17.4	15.6
Netherlands	480	36.9	12.7	49.5	0.5	0.4	36.9	35.6	38.1
New Zealand	718	43.6	12.2	40.1	2.5	1.7	43.6	36.6	50.8
Norway	591	52.4	10.0	27.2	4.8	5.6	52.4	45.4	60.5
Qatar	989	13.8	9.7	58.9	11.0	6.5	13.8	13.7	14.0
Russian Federation	644	65.9	6.5	24.2	0.8	2.5	65.9	61.2	70.4
Scotland	576	40.0	12.5	41.1	4.1	2.4	40.0	34.0	46.1
Singapore	714	52.0	15.5	32.5	0.0	0.0	52.0	44.1	59.5
Slovak Republic	715	58.0	12.9	23.1	4.9	1.2	58.0	58.3	57.7
Slovenia	625	40.9	11.1	41.9	2.7	3.4	40.9	41.5	40.3
Sweden	662	62.5	9.3	22.7	2.6	2.9	62.5	62.2	62.8
Tunisia	593	13.2	9.2	59.9	7.7	10.0	13.2	13.8	12.7
Ukraine	608	57.5	8.6	29.6	2.0	2.3	57.5	49.6	65.5
United States	1128	62.7	8.4	25.2	2.1	1.6	62.7	56.8	68.7
Yemen	816	9.3	7.3	68.5	9.4	5.4	9.3	6.8	11.4
International Avg.	637	43.3	10.3	38.0	4.6	3.8	43.3	39.7	46.9
Alberta, Canada	564	44.2	8.8	43.3	1.6	2.0	44.2	36.6	52.2
British Columbia, Canada	591	60.7	7.6	28.0	1.8	1.9	60.7	56.1	65.5
Dubai, UAE	434	54.7	11.7	25.9	3.8	3.9	54.7	57.1	52.5
Massachusetts, US	246	62.8	10.3	24.2	1.2	1.5	62.8	62.1	63.4
Minnesota, US	267	59.0	12.0	25.9	3.0	0.0	59.0	58.7	59.4
Ontario, Canada	503	44.1	8.9	41.1	1.8	4.0	44.1	39.5	48.4
Quebec, Canada	578	54.5	10.4	27.2	4.7	3.2	54.5	55.2	53.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031390A - S13\_11A)  
 Label: Animal extinction  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	3.2	16.1	1.3	0.3	0.7	40.3	27.6	10.4	20.9	20.8	21.1
Armenia	580	15.0	20.2	4.2	13.2	2.9	16.7	26.8	1.0	52.5	55.7	49.7
Australia	580	11.0	46.4	4.2	0.3	10.9	18.9	4.3	4.1	61.8	59.1	64.9
Austria	691	10.0	34.2	20.2	2.3	9.3	8.3	13.5	2.3	66.7	64.2	68.6
Chinese Taipei	594	24.7	35.1	16.0	0.0	6.5	8.8	7.9	1.0	75.8	74.5	76.9
Colombia	672	4.0	12.9	1.4	0.2	2.6	35.2	25.1	18.4	18.6	15.4	21.4
Czech Republic	591	4.7	35.4	15.2	1.4	11.4	19.0	9.7	3.2	56.7	54.2	59.3
Denmark	506	14.3	35.8	6.5	0.1	11.6	18.3	9.0	4.4	56.7	54.4	59.1
El Salvador	591	6.7	25.1	2.2	0.2	0.1	25.3	24.9	15.5	34.3	28.6	39.7
England	631	9.2	38.2	9.3	0.0	19.6	13.1	10.1	0.6	56.7	59.1	54.5
Georgia	588	12.7	32.5	2.2	0.4	1.2	14.0	22.1	14.8	47.9	49.2	46.5
Germany	734	11.5	39.1	18.4	0.0	10.6	9.1	7.5	3.8	69.0	66.6	71.2
Hong Kong SAR	540	13.0	54.6	5.9	3.1	7.1	11.3	4.4	0.5	76.7	76.3	77.0
Hungary	587	14.2	37.3	20.6	1.1	4.8	12.3	4.7	4.9	73.2	70.8	75.7
Iran, Islamic Rep. of	536	4.4	24.7	17.7	1.7	2.9	18.4	20.2	10.0	48.5	47.8	49.3
Italy	641	13.1	50.4	10.9	0.4	0.4	12.5	7.9	4.5	74.7	73.9	75.5
Japan	639	29.4	16.9	5.8	0.0	29.3	12.8	4.8	1.1	52.0	55.2	48.8
Kazakhstan	571	9.7	40.1	4.9	0.0	0.8	36.4	7.3	0.8	54.7	59.8	49.2
Kuwait	525	1.2	14.0	2.8	3.8	0.1	31.9	32.9	13.3	21.8	25.6	17.4
Latvia	562	10.2	33.8	15.8	4.6	5.8	25.4	3.9	0.7	64.3	66.9	61.5
Lithuania	572	11.2	39.2	13.3	0.2	3.7	24.3	5.3	2.7	64.0	62.6	65.5
Morocco	552	6.3	8.2	2.7	0.2	0.8	25.7	43.8	12.3	17.4	17.3	17.7
Netherlands	480	18.7	39.8	11.4	0.0	9.9	18.7	1.0	0.5	69.9	64.0	75.3
New Zealand	718	5.0	42.1	4.8	0.2	15.8	19.8	9.8	2.6	52.1	54.1	50.0
Norway	591	5.1	35.0	7.1	0.0	15.6	20.5	10.1	6.6	47.1	40.1	55.3
Qatar	989	0.6	8.7	0.5	0.1	1.8	43.8	33.0	11.5	9.9	9.3	10.7
Russian Federation	644	13.7	48.2	12.4	0.0	0.0	14.9	7.8	2.9	74.3	76.6	72.2
Scotland	576	6.0	35.6	3.3	0.0	21.7	16.5	12.8	4.0	44.9	43.5	46.3
Singapore	714	11.1	47.5	8.4	0.1	14.4	16.3	2.1	0.0	67.2	67.3	67.1
Slovak Republic	715	7.3	28.6	24.3	2.0	6.6	20.0	8.4	2.7	62.3	62.1	62.4
Slovenia	625	6.3	24.3	10.1	1.1	14.2	26.6	13.2	4.3	41.7	45.7	38.3
Sweden	662	7.2	48.0	21.1	0.1	7.2	6.2	5.9	4.2	76.4	77.5	75.2
Tunisia	593	2.7	17.8	2.9	0.0	0.2	42.7	19.5	14.1	23.4	27.2	19.9
Ukraine	608	9.6	30.2	5.8	3.3	8.4	22.0	17.7	3.0	49.0	46.4	51.6
United States	1128	7.7	37.8	7.7	0.0	23.7	17.3	4.1	1.8	53.1	51.3	54.9
Yemen	816	0.7	2.1	0.1	1.5	0.2	44.0	41.4	10.0	4.4	3.3	5.2
International Avg.	637	9.5	31.6	8.9	1.2	7.9	21.3	14.2	5.5	51.1	50.7	51.5
Alberta, Canada	564	6.7	43.1	11.8	0.6	6.3	23.4	5.6	2.5	62.2	60.0	64.4
British Columbia, Canada	591	12.2	38.9	13.3	0.7	6.2	19.9	6.8	2.1	65.0	65.8	64.2
Dubai, UAE	434	5.8	28.7	1.6	0.9	7.4	27.9	22.1	5.7	36.9	42.6	31.6
Massachusetts, US	246	10.0	46.0	10.2	0.0	15.2	11.6	5.4	1.5	66.3	61.9	70.7
Minnesota, US	267	6.9	39.7	5.4	0.8	24.0	16.6	6.3	0.4	52.8	56.1	49.8
Ontario, Canada	503	11.6	35.2	9.4	0.3	5.0	28.7	5.0	4.7	56.6	51.3	61.4
Quebec, Canada	578	6.0	47.9	8.5	0.1	3.4	17.6	10.9	5.7	62.5	62.7	62.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S031390B - S13\_11B)  
 Label: Animal extinction  
 Type: CR Key: -

COUNTRY	N	10	11	12	19	70	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	591	2.8	6.3	2.4	0.9	1.6	44.1	31.5	10.4	12.4	11.2	13.5
Armenia	580	13.8	7.9	7.6	13.9	2.2	21.3	32.4	1.0	43.2	46.1	40.5
Australia	580	15.3	9.8	7.6	1.8	14.1	41.7	5.6	4.1	34.5	31.0	38.3
Austria	691	11.1	16.2	14.5	2.0	11.0	23.3	19.5	2.3	43.9	34.1	51.5
Chinese Taipei	594	13.6	17.4	21.0	0.0	7.7	27.8	11.4	1.0	52.1	48.6	55.2
Colombia	672	4.4	5.4	2.6	0.6	3.3	39.5	25.7	18.4	13.0	7.7	17.4
Czech Republic	591	9.7	12.5	10.9	3.3	9.2	33.0	18.3	3.2	36.4	33.0	39.7
Denmark	506	11.9	14.4	14.3	0.3	14.1	28.7	12.0	4.4	40.8	38.4	43.4
El Salvador	591	6.8	7.8	3.5	0.7	1.2	37.7	26.8	15.5	18.8	14.8	22.7
England	631	11.6	15.2	6.3	0.0	18.6	36.2	11.6	0.6	33.0	34.9	31.3
Georgia	588	8.9	11.4	2.8	1.8	2.1	30.7	27.5	14.8	25.0	25.6	24.4
Germany	734	11.7	18.9	16.6	0.0	12.5	24.0	12.5	3.8	47.2	42.1	52.1
Hong Kong SAR	540	12.6	11.1	14.1	4.8	9.8	38.6	8.6	0.5	42.6	38.4	46.8
Hungary	587	10.2	19.6	16.9	2.0	6.2	29.1	11.1	4.9	48.7	44.0	53.7
Iran, Islamic Rep. of	536	4.8	9.4	7.5	0.8	3.5	38.8	25.2	10.0	22.6	21.6	23.6
Italy	641	15.9	21.8	17.5	1.0	2.8	21.8	14.7	4.5	56.2	57.2	55.2
Japan	639	16.9	15.6	7.1	0.3	31.3	20.2	7.4	1.1	39.9	43.0	36.8
Kazakhstan	571	10.9	13.9	6.1	0.0	2.2	55.4	10.7	0.8	31.0	36.7	24.8
Kuwait	525	1.1	4.5	4.5	3.9	0.3	33.9	38.4	13.3	14.1	15.9	11.9
Latvia	562	12.2	18.4	9.2	6.3	5.8	39.2	8.3	0.7	46.0	46.3	45.8
Lithuania	572	8.6	13.4	13.5	0.3	6.6	42.1	12.9	2.7	35.7	33.0	38.5
Morocco	552	7.4	3.8	2.3	0.2	0.6	25.2	48.3	12.3	13.7	13.7	13.8
Netherlands	480	18.2	20.3	9.6	0.0	11.0	38.1	2.3	0.5	48.1	44.1	51.8
New Zealand	718	10.3	9.1	7.9	1.4	15.5	41.3	11.9	2.6	28.7	26.8	30.7
Norway	591	8.5	10.1	5.4	0.0	17.6	36.4	15.4	6.6	24.0	23.2	24.9
Qatar	989	1.0	1.4	0.3	0.1	1.2	48.7	35.8	11.5	2.8	1.8	3.9
Russian Federation	644	16.7	21.8	17.1	0.1	0.1	28.9	12.3	2.9	55.8	54.9	56.6
Scotland	576	7.9	8.1	6.8	0.0	19.4	37.0	16.7	4.0	22.8	22.4	23.2
Singapore	714	14.7	10.9	10.0	0.1	15.0	46.7	2.5	0.0	35.8	33.1	38.3
Slovak Republic	715	6.5	14.4	18.6	0.9	7.4	35.3	14.2	2.7	40.5	42.2	38.7
Slovenia	624	7.5	10.3	7.0	3.1	11.2	38.7	18.0	4.3	27.9	28.2	27.6
Sweden	662	10.6	17.5	22.7	0.2	8.7	25.8	10.5	4.2	50.9	52.8	48.8
Tunisia	593	2.1	3.1	2.4	0.7	0.0	54.8	22.8	14.1	8.3	8.3	8.3
Ukraine	608	6.9	10.7	6.3	2.8	9.5	35.8	25.1	3.0	26.6	24.5	28.8
United States	1128	12.8	11.2	9.8	0.2	24.1	34.8	5.3	1.8	34.1	32.3	35.8
Yemen	816	0.4	0.8	0.6	1.0	0.7	43.9	42.5	10.0	2.9	2.0	3.5
International Avg.	637	9.6	11.8	9.3	1.5	8.6	35.5	18.2	5.5	32.2	30.9	33.4
Alberta, Canada	564	12.9	10.7	11.9	2.5	7.8	44.2	7.6	2.5	37.9	32.9	43.2
British Columbia, Canada	591	10.7	11.0	15.0	1.9	9.1	40.6	9.7	2.1	38.6	37.2	39.9
Dubai, UAE	434	9.1	9.0	6.9	0.7	8.7	36.2	23.7	5.7	25.6	25.9	25.4
Massachusetts, US	246	14.6	11.4	13.3	0.4	22.2	30.4	6.2	1.5	39.8	40.5	39.0
Minnesota, US	267	7.7	10.4	10.4	0.5	25.2	38.9	6.4	0.4	29.1	32.6	25.9
Ontario, Canada	503	9.1	13.0	13.6	1.9	7.1	45.0	5.7	4.7	37.6	38.0	37.2
Quebec, Canada	578	7.3	10.5	13.9	0.5	4.8	43.6	13.7	5.7	32.1	33.6	30.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.



Science: Life Science / Applying (S031390D - S13\_11D)  
 Label: Animal extinction/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT	V1	V2	1.GIRL %Right	2.BOY %Right
						REACH ED				
Algeria	591	9.5	14.3	38.4	27.4	10.4	23.8	9.5	7.6	11.3
Armenia	580	41.0	13.8	19.3	24.9	1.0	54.8	41.0	43.2	38.9
Australia	580	28.0	40.4	23.3	4.3	4.1	68.4	28.0	23.7	32.7
Austria	691	37.4	35.8	11.2	13.3	2.3	73.2	37.4	29.6	43.5
Chinese Taipei	594	45.7	36.5	9.1	7.7	1.0	82.2	45.7	41.7	49.2
Colombia	672	10.3	11.1	36.7	23.4	18.4	21.4	10.3	5.5	14.3
Czech Republic	591	26.7	39.8	20.8	9.6	3.2	66.5	26.7	24.5	28.8
Denmark	506	30.1	37.2	19.5	8.7	4.4	67.3	30.1	25.2	35.6
El Salvador	591	17.4	18.4	25.2	23.5	15.5	35.7	17.4	12.9	21.7
England	631	25.3	39.1	25.2	9.9	0.6	64.4	25.3	26.0	24.6
Georgia	588	23.0	26.9	13.9	21.5	14.8	49.9	23.0	23.6	22.4
Germany	734	42.2	31.7	14.9	7.3	3.8	73.9	42.2	37.6	46.7
Hong Kong SAR	540	37.1	45.0	13.1	4.4	0.5	82.1	37.1	33.3	41.1
Hungary	587	44.6	32.8	13.0	4.7	4.9	77.4	44.6	40.5	48.9
Iran, Islamic Rep. of	536	18.3	34.6	17.4	19.7	10.0	52.9	18.3	15.6	21.0
Italy	641	53.3	24.3	10.3	7.6	4.5	77.7	53.3	54.9	51.7
Japan	639	25.4	41.1	27.6	4.8	1.1	66.5	25.4	28.5	22.3
Kazakhstan	571	23.6	38.4	30.4	6.7	0.8	62.0	23.6	27.8	19.1
Kuwait	525	11.4	13.0	31.1	31.2	13.3	24.4	11.4	14.4	8.0
Latvia	562	39.1	32.2	24.2	3.9	0.7	71.2	39.1	39.4	38.7
Lithuania	572	28.8	42.1	21.1	5.3	2.7	70.9	28.8	25.3	32.4
Morocco	552	11.9	7.4	25.8	42.7	12.3	19.2	11.9	11.2	12.6
Netherlands	480	39.2	39.5	19.8	1.0	0.5	78.7	39.2	35.1	43.1
New Zealand	718	22.4	36.0	29.3	9.6	2.6	58.4	22.4	19.8	25.1
Norway	591	15.6	39.9	28.6	9.3	6.6	55.5	15.6	14.9	16.4
Qatar	989	1.4	10.0	49.0	28.2	11.5	11.4	1.4	1.0	1.8
Russian Federation	644	51.9	26.3	11.1	7.8	2.9	78.2	51.9	51.2	52.6
Scotland	576	14.6	38.4	30.1	12.8	4.0	53.1	14.6	12.9	16.4
Singapore	714	32.6	37.7	27.6	2.1	0.0	70.3	32.6	28.4	36.6
Slovak Republic	715	34.3	34.2	20.5	8.3	2.7	68.4	34.3	33.8	34.7
Slovenia	624	22.2	25.3	35.8	12.5	4.3	47.5	22.2	22.5	21.9
Sweden	662	45.3	36.8	8.2	5.6	4.2	82.0	45.3	48.9	41.3
Tunisia	593	6.6	18.4	42.0	18.7	14.1	25.1	6.6	7.2	6.1
Ukraine	608	21.0	33.5	25.0	17.4	3.0	54.6	21.0	19.0	23.0
United States	1128	25.9	35.4	32.8	4.1	1.8	61.3	25.9	24.8	26.9
Yemen	816	2.4	2.3	50.3	34.9	10.0	4.8	2.4	2.0	2.8
International Avg.	637	26.8	29.7	24.5	13.5	5.5	56.5	26.8	25.4	28.2
Alberta, Canada	564	34.6	30.9	26.4	5.6	2.5	65.5	34.6	30.5	38.9
British Columbia, Canada	591	33.9	35.7	21.5	6.8	2.1	69.6	33.9	32.8	35.1
Dubai, UAE	434	19.5	23.4	29.3	22.0	5.7	43.0	19.5	20.9	18.3
Massachusetts, US	246	32.1	41.8	19.2	5.4	1.5	73.9	32.1	32.0	32.2
Minnesota, US	267	20.3	41.3	31.8	6.3	0.4	61.6	20.3	24.9	16.1
Ontario, Canada	503	30.9	32.4	27.0	5.0	4.7	63.3	30.9	30.4	31.3
Quebec, Canada	578	30.3	34.1	19.1	10.9	5.7	64.4	30.3	31.9	28.2

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041010 - S14\_01)  
 Label: The function of seeds  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	572	37.9	37.9	29.5	14.7	13.5	3.9	0.5	41.0	34.7
Armenia	580	68.3	68.3	8.8	10.7	6.0	6.1	0.2	73.8	63.5
Australia	575	84.4	84.4	5.0	5.8	4.0	0.4	0.3	84.9	83.9
Austria	686	90.7	90.7	2.6	4.5	1.4	0.9	0.0	92.4	89.2
Chinese Taipei	591	91.5	91.5	5.2	1.4	1.0	0.9	0.0	91.0	92.1
Colombia	659	70.2	70.2	7.0	14.6	6.4	0.7	1.1	74.9	66.2
Czech Republic	595	91.9	91.9	1.6	2.4	1.2	2.9	0.0	91.7	92.2
Denmark	494	76.8	76.8	7.8	10.2	3.7	1.6	0.0	77.7	75.6
El Salvador	591	71.4	71.4	3.8	17.7	4.8	1.6	0.7	70.9	71.9
England	617	80.8	80.8	7.2	4.6	6.3	1.1	0.0	84.4	77.8
Georgia	580	76.1	76.1	10.7	8.0	4.2	0.9	0.0	73.7	78.3
Germany	749	90.2	90.2	3.5	4.3	1.0	0.8	0.1	89.8	90.7
Hong Kong SAR	543	89.4	89.4	5.4	2.2	2.9	0.0	0.0	87.4	91.5
Hungary	577	90.9	90.9	4.6	2.3	1.3	0.6	0.3	90.2	91.9
Iran, Islamic Rep. of	553	56.4	56.4	26.0	10.3	4.8	2.4	0.1	54.4	58.4
Italy	633	92.2	92.2	3.1	1.6	2.6	0.4	0.0	92.5	91.9
Japan	643	76.0	76.0	10.5	11.0	2.2	0.2	0.1	78.9	73.5
Kazakhstan	565	89.3	89.3	4.0	1.6	4.8	0.2	0.0	87.7	91.3
Kuwait	531	50.4	50.4	16.4	15.5	11.7	3.9	2.1	54.1	45.8
Latvia	556	86.4	86.4	2.5	7.5	3.0	0.6	0.0	89.9	82.5
Lithuania	562	87.4	87.4	2.1	4.2	4.2	2.0	0.0	88.7	86.1
Morocco	539	38.1	38.1	20.2	21.0	15.1	4.8	0.8	39.8	36.2
Netherlands	475	86.3	86.3	6.0	3.3	4.2	0.1	0.0	82.3	90.0
New Zealand	706	74.0	74.0	10.1	6.3	7.8	1.7	0.1	78.0	69.9
Norway	580	74.3	74.3	4.1	9.4	11.0	1.1	0.1	73.3	75.2
Qatar	981	45.3	45.3	24.1	16.7	10.9	2.8	0.2	43.9	46.7
Russian Federation	641	92.0	92.0	2.8	1.8	3.3	0.1	0.0	95.4	88.9
Scotland	586	82.0	82.0	5.3	6.6	5.0	0.8	0.2	83.5	80.6
Singapore	711	86.5	86.5	6.6	2.8	3.9	0.1	0.0	86.9	86.2
Slovak Republic	717	88.8	88.8	4.1	3.0	3.6	0.6	0.0	86.1	91.4
Slovenia	629	92.6	92.6	3.2	1.1	2.1	1.0	0.0	93.4	91.8
Sweden	663	92.1	92.1	1.3	2.3	3.5	0.7	0.1	92.0	92.2
Tunisia	592	36.5	36.5	13.0	19.3	12.5	17.3	1.4	39.4	33.5
Ukraine	606	74.4	74.4	10.1	7.4	7.1	0.8	0.0	76.3	72.6
United States	1117	80.0	80.0	6.1	6.8	6.7	0.4	0.1	78.1	81.8
Yemen	826	20.1	20.1	21.7	31.6	20.1	6.1	0.4	22.2	18.4
International Avg.	634	75.3	75.3	8.5	8.2	5.8	2.0	0.2	76.1	74.6
Alberta, Canada	551	84.0	84.0	5.0	5.1	3.5	2.4	0.0	82.6	85.1
British Columbia, Canada	597	83.3	83.3	6.0	4.2	5.2	1.1	0.1	83.7	82.9
Dubai, UAE	428	75.4	75.4	8.8	7.6	5.0	2.8	0.3	77.1	73.8
Massachusetts, US	247	89.1	89.1	4.2	3.8	2.8	0.0	0.0	90.5	87.7
Minnesota, US	265	83.4	83.4	5.0	6.5	4.3	0.8	0.0	82.5	84.2
Ontario, Canada	496	80.5	80.5	7.7	6.8	4.8	0.1	0.0	76.8	84.2
Quebec, Canada	568	80.7	80.7	4.7	7.4	4.7	1.8	0.7	79.4	82.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041034 - S14\_02)  
 Label: Exercising and breathing faster  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	57.2	18.8	6.5	12.4	57.2	4.3	0.9	60.2	54.0
Armenia	583	71.4	8.4	3.8	11.1	71.4	5.1	0.2	74.1	68.9
Australia	575	60.6	4.4	4.5	30.0	60.6	0.1	0.3	56.1	65.7
Austria	686	70.0	7.2	7.5	14.1	70.0	1.2	0.0	70.0	70.0
Chinese Taipei	591	65.1	4.8	4.1	25.4	65.1	0.6	0.0	62.6	67.4
Colombia	659	66.8	5.2	5.6	19.5	66.8	1.7	1.1	68.3	65.5
Czech Republic	595	71.7	6.8	1.3	18.0	71.7	2.3	0.0	66.0	77.6
Denmark	496	70.7	8.8	2.3	16.3	70.7	1.9	0.0	70.8	70.6
El Salvador	591	47.8	8.4	5.0	36.3	47.8	1.9	0.7	47.9	47.7
England	617	66.9	7.0	2.3	22.5	66.9	1.4	0.0	67.4	66.5
Georgia	580	69.9	15.2	3.9	9.8	69.9	1.2	0.0	68.8	70.9
Germany	749	73.2	6.2	4.4	14.2	73.2	2.0	0.1	71.4	75.0
Hong Kong SAR	543	85.8	3.7	1.7	8.6	85.8	0.2	0.0	82.7	88.9
Hungary	577	76.7	8.3	0.4	12.9	76.7	1.3	0.3	75.5	78.3
Iran, Islamic Rep. of	553	71.3	11.4	4.1	11.6	71.3	1.6	0.1	73.2	69.4
Italy	635	73.3	4.2	1.9	19.7	73.3	0.9	0.0	71.9	74.8
Japan	643	67.8	12.5	5.0	13.3	67.8	1.4	0.1	63.3	71.9
Kazakhstan	565	89.0	4.5	0.2	6.3	89.0	0.1	0.0	89.4	88.4
Kuwait	531	40.7	23.0	9.7	19.8	40.7	4.3	2.4	48.7	31.1
Latvia	556	79.6	7.1	1.1	10.5	79.6	1.7	0.0	82.5	76.4
Lithuania	562	85.4	5.3	0.7	5.3	85.4	3.3	0.0	85.0	85.8
Morocco	536	46.3	13.4	5.9	27.2	46.3	6.4	0.8	46.2	46.1
Netherlands	475	78.4	7.8	2.8	10.3	78.4	0.7	0.0	73.8	82.6
New Zealand	706	59.2	4.5	4.0	30.7	59.2	1.3	0.3	57.5	61.0
Norway	580	55.2	3.8	9.7	29.9	55.2	1.3	0.1	55.6	54.8
Qatar	981	40.8	21.8	9.6	23.0	40.8	4.4	0.4	41.8	39.8
Russian Federation	641	88.2	3.2	1.6	6.3	88.2	0.6	0.0	86.4	89.8
Scotland	586	57.8	4.2	2.6	34.4	57.8	0.8	0.2	55.4	60.3
Singapore	711	94.2	1.7	0.8	3.2	94.2	0.1	0.0	94.6	93.7
Slovak Republic	717	78.4	3.4	0.9	16.1	78.4	1.2	0.0	77.2	79.5
Slovenia	629	71.0	10.9	2.1	14.0	71.0	2.0	0.0	71.3	70.8
Sweden	663	66.5	8.3	0.4	23.8	66.5	0.9	0.1	64.4	68.6
Tunisia	592	49.8	9.8	11.4	13.1	49.8	14.1	1.8	54.3	45.4
Ukraine	606	73.0	8.8	3.8	13.3	73.0	1.0	0.0	71.1	74.9
United States	1117	64.5	5.5	4.1	25.6	64.5	0.3	0.1	62.2	66.9
Yemen	826	39.7	15.9	13.6	23.6	39.7	6.5	0.7	38.4	40.7
International Avg.	634	67.3	8.4	4.1	17.6	67.3	2.2	0.3	66.8	67.8
Alberta, Canada	551	61.9	5.2	2.7	28.0	61.9	2.2	0.0	58.4	64.9
British Columbia, Canada	597	59.4	5.3	3.2	31.0	59.4	0.7	0.4	60.4	58.5
Dubai, UAE	428	64.4	11.5	5.2	16.4	64.4	2.3	0.3	67.7	61.4
Massachusetts, US	247	73.5	2.6	1.6	22.3	73.5	0.0	0.0	67.9	79.1
Minnesota, US	265	63.5	7.1	2.6	26.1	63.5	0.8	0.0	58.9	67.5
Ontario, Canada	496	59.0	6.1	1.5	33.2	59.0	0.2	0.0	61.8	56.3
Quebec, Canada	568	56.6	4.8	6.5	29.6	56.6	1.8	0.7	52.7	61.6

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041017 - S14\_03)  
 Label: Animals take care of their young  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	556	28.6	28.6	12.1	46.8	7.4	3.9	1.0	27.3	30.0
Armenia	580	39.5	39.5	4.6	47.3	4.5	3.8	0.2	40.5	38.7
Australia	575	47.2	47.2	4.1	45.3	2.5	0.5	0.3	46.9	47.6
Austria	686	49.7	49.7	5.3	37.5	4.8	2.7	0.0	52.5	47.4
Chinese Taipei	591	50.1	50.1	3.6	42.6	2.5	1.1	0.0	52.0	48.5
Colombia	659	40.6	40.6	4.7	49.5	2.1	1.9	1.1	42.2	39.3
Czech Republic	595	46.5	46.5	2.3	46.1	1.1	4.1	0.0	46.9	46.0
Denmark	494	48.6	48.6	2.8	44.4	3.2	0.9	0.1	52.1	44.1
El Salvador	591	41.5	41.5	8.3	43.8	3.1	2.6	0.7	38.9	44.1
England	617	31.2	31.2	4.7	59.9	2.2	1.8	0.1	31.0	31.4
Georgia	580	31.6	31.6	14.7	42.8	6.7	4.1	0.1	33.5	29.8
Germany	749	48.1	48.1	1.8	46.5	1.3	2.1	0.2	51.6	44.5
Hong Kong SAR	543	44.6	44.6	11.0	38.6	5.8	0.0	0.0	41.0	48.3
Hungary	577	46.6	46.6	3.6	46.7	1.2	1.6	0.3	48.5	44.0
Iran, Islamic Rep. of	553	38.0	38.0	9.9	41.8	6.8	3.3	0.1	40.8	35.3
Italy	630	45.9	45.9	2.9	48.2	2.1	0.9	0.0	43.7	48.4
Japan	643	53.5	53.5	5.0	37.3	3.0	1.1	0.1	61.5	46.4
Kazakhstan	565	55.1	55.1	5.5	37.1	2.2	0.1	0.0	53.0	57.7
Kuwait	531	35.4	35.4	10.2	38.5	7.4	6.1	2.4	36.1	34.6
Latvia	556	52.5	52.5	1.2	43.2	1.9	1.2	0.0	54.1	50.7
Lithuania	562	52.7	52.7	4.3	38.6	2.1	2.3	0.0	51.9	53.4
Morocco	537	27.8	27.8	15.6	36.3	12.2	7.1	0.8	24.3	31.1
Netherlands	475	43.4	43.4	1.2	53.5	1.4	0.5	0.0	42.3	44.3
New Zealand	706	42.7	42.7	4.4	45.6	5.9	1.2	0.3	46.3	39.0
Norway	580	50.3	50.3	4.3	39.6	4.1	1.5	0.3	48.1	52.2
Qatar	981	30.6	30.6	13.8	38.2	12.2	4.6	0.5	30.9	30.3
Russian Federation	641	51.4	51.4	5.3	38.3	3.9	1.2	0.0	56.8	46.4
Scotland	586	40.3	40.3	3.7	50.3	2.7	2.7	0.2	42.6	37.9
Singapore	711	56.9	56.9	1.9	37.7	3.3	0.1	0.0	49.8	63.3
Slovak Republic	717	41.1	41.1	6.8	46.3	2.8	2.9	0.0	39.8	42.5
Slovenia	629	44.3	44.3	1.7	50.0	2.6	1.4	0.0	43.1	45.6
Sweden	663	45.5	45.5	4.3	45.7	3.2	1.2	0.1	46.0	45.1
Tunisia	592	34.7	34.7	7.8	30.6	7.8	17.1	1.9	36.1	33.3
Ukraine	606	43.8	43.8	7.9	41.0	4.5	2.8	0.0	42.2	45.3
United States	1117	45.5	45.5	3.7	47.1	3.0	0.7	0.1	43.6	47.6
Yemen	826	22.6	22.6	18.1	34.0	16.8	7.7	0.7	23.2	22.3
International Avg.	633	43.0	43.0	6.2	43.2	4.5	2.7	0.3	43.4	42.7
Alberta, Canada	551	50.0	50.0	3.7	39.9	3.3	3.0	0.0	52.6	47.8
British Columbia, Canada	597	51.3	51.3	1.9	41.5	2.9	2.0	0.4	52.5	50.2
Dubai, UAE	428	35.9	35.9	5.6	48.6	6.2	3.5	0.3	32.8	38.8
Massachusetts, US	247	49.8	49.8	2.5	47.1	0.3	0.3	0.0	53.4	46.2
Minnesota, US	265	46.3	46.3	5.8	45.1	1.4	1.5	0.0	41.3	50.6
Ontario, Canada	496	47.3	47.3	3.4	45.3	3.5	0.6	0.0	47.0	47.5
Quebec, Canada	568	47.1	47.1	3.3	43.9	2.4	2.7	0.7	47.6	46.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Applying (S041124 - S14\_04)  
 Label: Advantage for monarch butterfly  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	580	37.6	37.6	16.3	15.1	25.6	4.2	1.2	37.4	37.8
Armenia	574	34.1	34.1	12.0	14.4	29.0	10.0	0.5	33.8	34.4
Australia	575	46.7	46.7	10.3	12.8	29.2	0.6	0.4	46.7	46.7
Austria	686	46.4	46.4	9.0	10.3	27.4	6.9	0.0	43.5	48.7
Chinese Taipei	591	46.3	46.3	9.9	24.9	17.9	1.0	0.0	46.9	45.6
Colombia	659	28.2	28.2	25.4	16.4	26.2	2.8	1.1	26.9	29.4
Czech Republic	596	60.4	60.4	4.5	11.6	18.7	4.8	0.0	56.8	64.3
Denmark	494	51.1	51.1	10.1	22.0	14.3	2.4	0.1	50.8	51.5
El Salvador	591	28.8	28.8	31.0	13.9	23.2	2.4	0.7	29.6	28.1
England	617	55.9	55.9	7.3	13.5	21.7	1.4	0.1	51.3	59.6
Georgia	580	29.4	29.4	17.3	16.5	31.8	5.0	0.1	31.3	27.5
Germany	749	47.0	47.0	9.6	10.5	27.9	4.8	0.2	45.3	48.8
Hong Kong SAR	543	34.0	34.0	8.6	41.5	15.5	0.5	0.0	28.8	39.2
Hungary	577	50.1	50.1	7.4	15.2	23.2	3.7	0.3	46.6	54.7
Iran, Islamic Rep. of	553	29.9	29.9	22.5	24.5	16.8	6.0	0.3	32.1	27.8
Italy	633	47.7	47.7	7.1	13.1	28.1	4.1	0.0	45.1	50.5
Japan	643	55.7	55.7	10.6	14.6	19.0	0.0	0.1	56.5	55.0
Kazakhstan	566	38.0	38.0	15.1	22.1	23.1	1.7	0.0	38.5	37.4
Kuwait	531	25.2	25.2	18.4	19.4	26.5	8.0	2.4	23.2	27.7
Latvia	556	38.7	38.7	7.8	31.7	20.7	1.1	0.0	40.3	37.0
Lithuania	562	51.0	51.0	9.3	17.0	18.4	4.3	0.0	52.5	49.4
Morocco	538	38.3	38.3	20.7	14.9	15.6	9.6	0.8	38.9	37.7
Netherlands	475	52.3	52.3	5.1	15.3	25.4	1.8	0.0	51.7	52.9
New Zealand	706	47.6	47.6	14.9	11.9	23.8	1.5	0.3	47.5	47.6
Norway	580	32.4	32.4	21.9	20.6	22.4	2.4	0.3	33.7	31.3
Qatar	981	34.6	34.6	22.7	18.0	18.7	5.4	0.6	35.0	34.1
Russian Federation	641	45.3	45.3	8.7	24.4	20.2	1.3	0.0	47.0	43.7
Scotland	586	45.6	45.6	15.3	12.9	23.8	2.2	0.2	42.6	48.8
Singapore	711	39.0	39.0	7.2	16.0	37.4	0.3	0.0	35.7	42.0
Slovak Republic	717	56.1	56.1	9.4	13.6	18.2	2.7	0.0	51.7	60.4
Slovenia	629	37.2	37.2	12.3	18.6	26.5	5.3	0.0	40.2	34.3
Sweden	663	49.4	49.4	10.4	13.8	24.4	2.0	0.1	49.5	49.2
Tunisia	592	25.9	25.9	16.2	20.3	17.2	18.2	2.2	25.3	26.5
Ukraine	606	35.6	35.6	8.5	18.4	34.1	3.4	0.0	34.7	36.5
United States	1117	43.1	43.1	10.6	16.4	29.3	0.5	0.1	40.6	45.8
Yemen	826	24.1	24.1	19.7	28.9	18.8	7.7	0.7	24.3	23.9
International Avg.	634	41.4	41.4	13.1	17.9	23.3	3.9	0.4	40.6	42.1
Alberta, Canada	551	44.9	44.9	8.5	17.4	27.1	2.2	0.0	44.0	45.7
British Columbia, Canada	597	46.6	46.6	10.3	16.8	23.9	1.9	0.4	47.9	45.4
Dubai, UAE	428	35.4	35.4	15.2	16.4	28.2	4.5	0.3	36.1	34.8
Massachusetts, US	247	58.7	58.7	5.9	13.7	18.8	2.9	0.0	49.7	67.8
Minnesota, US	265	50.7	50.7	9.7	17.8	21.0	0.8	0.0	47.4	53.6
Ontario, Canada	496	42.4	42.4	11.4	17.3	28.4	0.4	0.0	36.7	48.0
Quebec, Canada	568	34.2	34.2	12.8	22.5	26.8	3.0	0.7	30.8	38.5

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041186 - S14\_05)  
 Label: Freezing point of water  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	608	13.2	54.8	30.9	1.1	13.2	13.3	13.0
Armenia	582	40.6	36.9	22.1	0.4	40.6	43.7	37.8
Australia	575	20.2	75.7	3.6	0.4	20.2	16.4	24.5
Austria	686	41.7	49.0	9.3	0.0	41.7	38.2	44.6
Chinese Taipei	591	16.8	77.2	6.1	0.0	16.8	15.9	17.5
Colombia	659	3.9	72.2	22.3	1.7	3.9	2.0	5.4
Czech Republic	596	44.4	50.2	5.4	0.0	44.4	36.8	52.3
Denmark	496	40.9	53.8	5.1	0.1	40.9	32.9	51.7
El Salvador	593	1.9	75.1	22.2	0.8	1.9	2.2	1.5
England	617	40.2	57.4	2.2	0.1	40.2	37.7	42.3
Georgia	580	15.7	48.8	35.2	0.3	15.7	14.9	16.5
Germany	749	43.4	50.2	6.2	0.2	43.4	41.5	45.3
Hong Kong SAR	543	19.0	78.9	2.1	0.0	19.0	15.8	22.3
Hungary	577	41.4	55.4	2.9	0.3	41.4	35.4	49.1
Iran, Islamic Rep. of	553	8.5	67.7	23.6	0.3	8.5	8.0	8.9
Italy	635	26.5	61.3	12.1	0.0	26.5	25.7	27.5
Japan	643	67.1	31.4	1.5	0.1	67.1	68.3	66.0
Kazakhstan	566	31.1	63.8	5.1	0.0	31.1	32.0	30.0
Kuwait	531	7.5	57.9	31.9	2.7	7.5	8.6	6.2
Latvia	556	27.0	70.4	2.5	0.0	27.0	26.3	27.9
Lithuania	562	7.6	85.2	7.2	0.0	7.6	8.8	6.3
Morocco	552	8.1	46.3	44.7	0.9	8.1	7.3	9.1
Netherlands	475	24.9	73.7	1.4	0.0	24.9	20.2	29.1
New Zealand	706	14.2	80.0	5.6	0.3	14.2	13.3	15.1
Norway	580	33.9	59.6	6.3	0.3	33.9	30.9	36.6
Qatar	981	5.2	68.4	25.7	0.7	5.2	5.7	4.6
Russian Federation	641	27.6	68.4	3.9	0.0	27.6	26.7	28.6
Scotland	586	17.7	77.2	4.9	0.2	17.7	13.7	21.9
Singapore	711	81.1	18.5	0.4	0.0	81.1	78.8	83.2
Slovak Republic	717	30.4	63.8	5.8	0.0	30.4	27.0	33.8
Slovenia	629	20.4	74.5	5.1	0.0	20.4	18.6	22.1
Sweden	663	42.5	53.8	3.5	0.1	42.5	36.6	48.7
Tunisia	592	6.8	67.2	23.3	2.6	6.8	6.7	6.9
Ukraine	606	19.0	70.2	10.6	0.2	19.0	21.9	16.2
United States	1117	20.4	77.9	1.6	0.1	20.4	19.3	21.6
Yemen	826	2.1	59.4	37.2	1.3	2.1	2.7	1.6
International Avg.	636	25.4	62.0	12.2	0.4	25.4	23.7	27.1
Alberta, Canada	551	39.1	55.6	5.3	0.0	39.1	32.8	44.3
British Columbia, Canada	597	28.7	67.1	3.7	0.6	28.7	25.2	31.8
Dubai, UAE	428	26.2	57.0	15.7	1.1	26.2	25.9	26.5
Massachusetts, US	247	17.7	80.0	2.2	0.0	17.7	11.7	23.7
Minnesota, US	265	16.4	81.8	1.8	0.0	16.4	14.8	17.9
Ontario, Canada	496	31.0	66.9	2.1	0.0	31.0	23.8	38.1
Quebec, Canada	568	22.8	69.6	7.0	0.7	22.8	21.1	24.9

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Reasoning (S041037 - S14\_06)  
 Label: Positive-negative effect of activity  
 Type: CR Key: -

COUNTRY	N	20	10	79	OMIT	NOT	V1	V2	1.GIRL	2.BOY
					TED	REACH			%Right	%Right
Algeria	608	10.5	13.7	67.5	7.1	1.2	24.2	10.5	11.5	9.5
Armenia	582	22.3	19.4	31.4	26.2	0.7	41.7	22.3	22.0	22.6
Australia	575	55.5	21.1	22.0	1.0	0.4	76.6	55.5	53.6	57.6
Austria	686	36.4	23.5	34.6	5.6	0.0	59.9	36.4	32.9	39.3
Chinese Taipei	591	45.5	29.0	25.2	0.3	0.0	74.5	45.5	47.0	44.1
Colombia	659	17.9	20.1	46.8	12.9	2.3	38.0	17.9	17.3	18.3
Czech Republic	594	29.0	22.5	38.8	9.7	0.0	51.5	29.0	25.8	32.4
Denmark	496	30.7	23.3	40.0	5.8	0.1	54.0	30.7	30.5	31.1
El Salvador	593	15.1	18.1	51.0	14.2	1.7	33.1	15.1	14.5	15.7
England	617	56.6	24.6	16.9	1.7	0.1	81.2	56.6	60.1	53.8
Georgia	580	10.4	17.2	42.6	29.0	0.8	27.6	10.4	10.1	10.8
Germany	749	37.1	22.6	35.7	4.4	0.2	59.7	37.1	30.9	43.7
Hong Kong SAR	543	36.0	36.2	27.7	0.2	0.0	72.2	36.0	32.8	39.3
Hungary	577	44.4	22.4	30.1	2.7	0.4	66.8	44.4	44.3	44.6
Iran, Islamic Rep. of	553	29.7	17.0	44.0	9.0	0.3	46.7	29.7	33.3	26.1
Italy	635	40.9	31.1	25.2	2.6	0.2	72.0	40.9	42.6	39.0
Japan	643	53.0	30.8	15.4	0.7	0.1	83.8	53.0	51.5	54.4
Kazakhstan	566	34.8	34.3	24.4	6.6	0.0	69.1	34.8	40.4	27.7
Kuwait	531	3.5	7.2	57.9	28.3	3.2	10.6	3.5	4.7	2.0
Latvia	556	44.4	30.4	24.9	0.3	0.0	74.8	44.4	46.3	42.4
Lithuania	562	32.3	31.7	35.0	1.0	0.0	64.0	32.3	35.0	29.5
Morocco	552	3.8	10.1	72.6	12.6	0.9	13.9	3.8	6.0	1.7
Netherlands	475	51.8	24.5	22.8	0.9	0.0	76.3	51.8	48.6	54.7
New Zealand	706	41.8	24.7	30.7	2.2	0.5	66.5	41.8	41.8	41.8
Norway	580	31.4	26.5	37.4	4.5	0.3	57.9	31.4	32.2	30.6
Qatar	981	9.4	9.2	56.2	24.3	0.8	18.6	9.4	11.2	7.5
Russian Federation	641	49.0	21.9	22.6	6.4	0.0	70.9	49.0	47.7	50.2
Scotland	586	56.3	24.6	18.2	0.7	0.2	80.9	56.3	60.2	52.1
Singapore	711	34.3	21.8	43.6	0.4	0.0	56.1	34.3	31.6	36.7
Slovak Republic	717	37.1	21.4	34.0	7.0	0.4	58.5	37.1	35.6	38.6
Slovenia	629	28.4	34.0	35.4	2.1	0.1	62.4	28.4	28.9	28.0
Sweden	663	64.6	22.0	12.7	0.6	0.1	86.6	64.6	67.1	62.1
Tunisia	592	6.9	16.3	70.0	4.1	2.7	23.2	6.9	7.0	6.8
Ukraine	606	19.2	23.1	40.7	16.9	0.2	42.2	19.2	21.8	16.6
United States	1117	47.6	17.8	31.7	2.7	0.1	65.4	47.6	45.4	49.9
Yemen	825	2.6	9.6	56.7	29.0	2.1	12.2	2.6	1.9	3.1
International Avg.	635	32.5	22.3	36.7	7.9	0.6	54.8	32.5	32.6	32.3
Alberta, Canada	551	57.8	18.4	21.1	2.7	0.0	76.2	57.8	61.4	54.7
British Columbia, Canada	597	56.0	18.5	23.2	1.8	0.6	74.4	56.0	57.1	54.9
Dubai, UAE	428	27.4	17.9	46.9	6.7	1.1	45.3	27.4	27.2	27.6
Massachusetts, US	247	65.3	16.7	16.9	1.1	0.0	82.0	65.3	62.5	68.2
Minnesota, US	265	56.0	14.0	28.5	1.5	0.0	70.0	56.0	58.4	54.0
Ontario, Canada	496	54.1	17.6	24.9	3.4	0.0	71.6	54.1	52.8	55.3
Quebec, Canada	568	59.1	24.2	15.2	0.8	0.7	83.3	59.1	59.6	58.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041119 - S14\_07)  
 Label: Direction of gravity  
 Type: MC Key: C

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	578	73.1	7.1	6.4	73.1	7.2	4.3	1.9	76.6	69.5
Armenia	581	44.9	35.5	6.7	44.9	4.3	7.6	1.0	48.0	42.3
Australia	575	72.3	16.5	6.0	72.3	3.9	0.8	0.4	66.7	78.6
Austria	686	83.0	10.0	2.6	83.0	1.5	2.7	0.2	78.5	86.8
Chinese Taipei	591	89.9	7.1	1.5	89.9	0.5	1.1	0.0	90.5	89.3
Colombia	659	65.4	11.3	5.7	65.4	10.5	3.8	3.2	65.1	65.6
Czech Republic	596	59.7	22.1	5.0	59.7	4.8	7.8	0.7	53.6	66.1
Denmark	496	60.5	28.2	5.3	60.5	1.5	3.6	0.9	58.0	63.9
El Salvador	590	71.0	9.6	3.6	71.0	10.0	3.8	2.0	70.9	71.2
England	617	79.6	13.4	1.8	79.6	3.1	1.9	0.1	79.9	79.4
Georgia	580	53.1	26.1	5.5	53.1	7.9	6.2	1.2	55.0	51.3
Germany	749	78.0	14.0	4.0	78.0	1.5	2.3	0.2	72.3	84.1
Hong Kong SAR	543	89.5	7.6	0.9	89.5	1.6	0.4	0.0	89.0	89.9
Hungary	577	57.3	28.8	5.0	57.3	2.7	5.3	0.9	51.3	65.2
Iran, Islamic Rep. of	553	80.7	9.5	3.6	80.7	4.3	1.5	0.3	85.4	76.0
Italy	634	76.8	15.5	2.8	76.8	3.1	1.7	0.2	72.9	81.1
Japan	643	64.7	19.3	10.0	64.7	5.1	0.9	0.1	61.6	67.4
Kazakhstan	566	85.1	7.5	2.8	85.1	4.4	0.2	0.0	86.5	83.4
Kuwait	531	64.4	9.0	6.3	64.4	11.4	5.2	3.7	72.0	55.2
Latvia	556	75.7	14.0	3.2	75.7	4.1	3.1	0.0	76.8	74.5
Lithuania	562	86.7	5.7	1.8	86.7	3.9	2.0	0.0	85.5	87.8
Morocco	540	69.3	6.1	9.3	69.3	7.2	7.2	1.0	70.1	68.7
Netherlands	475	64.8	26.0	6.3	64.8	2.5	0.4	0.0	60.8	68.3
New Zealand	706	67.5	17.0	6.0	67.5	6.6	2.2	0.6	66.6	68.4
Norway	580	67.2	20.4	6.3	67.2	2.9	2.0	1.2	64.0	70.0
Qatar	981	51.0	14.1	12.9	51.0	16.7	4.0	1.3	51.1	50.9
Russian Federation	641	89.4	4.7	3.2	89.4	1.5	1.2	0.0	89.4	89.4
Scotland	586	62.2	22.6	7.2	62.2	4.0	3.5	0.5	62.8	61.5
Singapore	711	68.8	20.3	7.6	68.8	3.3	0.0	0.0	65.5	71.9
Slovak Republic	717	83.9	9.0	2.3	83.9	2.5	1.9	0.4	81.9	85.9
Slovenia	629	84.2	3.8	2.1	84.2	6.7	2.7	0.4	82.2	86.2
Sweden	663	59.0	17.7	14.3	59.0	7.1	1.9	0.1	53.4	64.8
Tunisia	593	62.8	6.7	5.7	62.8	8.4	13.3	3.1	63.9	61.7
Ukraine	606	79.9	10.7	3.9	79.9	4.3	1.1	0.2	76.3	83.4
United States	1117	69.1	16.8	6.8	69.1	5.7	1.4	0.1	66.1	72.2
Yemen	825	48.7	9.2	11.0	48.7	19.8	9.1	2.2	47.7	49.5
International Avg.	634	70.5	14.5	5.4	70.5	5.5	3.3	0.8	69.4	71.7
Alberta, Canada	551	74.1	16.8	2.6	74.1	3.7	2.8	0.0	70.6	76.9
British Columbia, Canada	597	74.8	13.4	4.8	74.8	4.4	2.0	0.7	72.3	77.1
Dubai, UAE	428	62.6	16.5	6.9	62.6	9.0	3.8	1.2	62.2	63.0
Massachusetts, US	247	74.6	16.9	3.4	74.6	3.6	1.5	0.0	69.0	80.2
Minnesota, US	265	67.4	20.7	5.8	67.4	4.5	1.6	0.0	62.6	71.5
Ontario, Canada	496	73.2	15.4	5.6	73.2	3.9	1.9	0.0	66.4	79.9
Quebec, Canada	568	60.7	26.2	6.8	60.7	3.4	2.3	0.7	56.4	66.3

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.



Science: Earth Science / Knowing (S041105 - S14\_08)  
 Label: Evidence for existence of animals  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	570	26.0	11.5	25.4	29.6	26.0	4.7	2.8	25.3	26.7
Armenia	572	43.9	14.5	18.8	11.7	43.9	10.0	1.1	44.6	43.3
Australia	575	74.8	8.2	9.8	6.1	74.8	0.6	0.5	70.0	80.1
Austria	686	74.4	5.8	13.2	4.2	74.4	2.3	0.2	73.8	74.9
Chinese Taipei	591	79.9	4.1	11.0	3.7	79.9	1.2	0.0	75.3	84.2
Colombia	659	34.8	17.4	13.0	27.1	34.8	4.2	3.6	26.3	42.2
Czech Republic	595	66.1	7.7	17.9	6.0	66.1	1.7	0.7	61.0	71.4
Denmark	496	60.9	4.8	8.3	19.5	60.9	4.9	1.7	56.9	66.2
El Salvador	592	36.6	26.5	18.5	11.9	36.6	4.3	2.2	32.9	40.2
England	617	72.7	6.0	12.8	6.4	72.7	1.9	0.1	73.7	71.8
Georgia	580	46.2	12.3	22.3	12.7	46.2	5.4	1.2	45.7	46.6
Germany	749	77.9	4.9	8.7	5.0	77.9	3.2	0.2	73.1	83.0
Hong Kong SAR	543	86.5	3.0	4.8	5.6	86.5	0.1	0.0	84.7	88.3
Hungary	577	75.9	4.9	11.4	5.4	75.9	1.5	0.9	74.2	78.0
Iran, Islamic Rep. of	553	30.5	10.9	44.7	9.7	30.5	3.9	0.3	26.5	34.4
Italy	623	55.7	4.6	21.0	17.5	55.7	1.0	0.2	55.9	55.4
Japan	643	63.6	7.1	20.7	8.1	63.6	0.4	0.1	62.8	64.4
Kazakhstan	566	67.7	5.1	20.8	5.1	67.7	1.3	0.0	63.3	73.3
Kuwait	531	27.1	16.6	19.9	27.0	27.1	5.6	3.7	29.5	24.3
Latvia	556	49.9	5.3	29.4	13.7	49.9	1.6	0.0	40.8	59.8
Lithuania	562	60.9	4.2	20.6	10.0	60.9	4.2	0.0	59.9	61.9
Morocco	537	27.9	12.8	21.5	28.7	27.9	7.2	1.9	25.5	30.7
Netherlands	475	70.5	4.3	8.5	15.7	70.5	1.1	0.0	66.6	74.0
New Zealand	706	70.0	8.8	11.1	7.7	70.0	1.5	0.9	69.6	70.5
Norway	580	69.9	7.4	13.8	5.1	69.9	2.4	1.4	68.3	71.3
Qatar	981	23.7	19.8	23.8	26.3	23.7	4.9	1.5	22.7	24.8
Russian Federation	641	66.2	2.0	24.6	4.1	66.2	3.0	0.0	64.6	67.8
Scotland	586	68.6	10.1	13.0	6.0	68.6	1.8	0.5	66.8	70.4
Singapore	711	77.8	5.7	9.8	6.6	77.8	0.1	0.0	74.1	81.1
Slovak Republic	717	60.4	7.6	17.5	9.6	60.4	4.2	0.7	57.8	62.9
Slovenia	629	59.9	6.1	13.0	16.7	59.9	3.9	0.4	59.8	60.0
Sweden	663	67.3	8.3	13.8	9.3	67.3	1.0	0.3	64.5	70.2
Tunisia	593	27.5	9.1	22.8	18.4	27.5	17.9	4.3	29.5	25.4
Ukraine	606	60.1	6.4	17.5	13.0	60.1	2.9	0.2	54.4	65.7
United States	1117	74.7	7.2	8.1	8.8	74.7	1.0	0.1	71.0	78.5
Yemen	826	21.7	17.6	21.9	28.3	21.7	7.6	3.0	23.5	20.4
International Avg.	633	57.2	8.9	17.0	12.5	57.2	3.5	1.0	54.9	59.6
Alberta, Canada	551	81.3	7.4	5.4	4.2	81.3	1.7	0.0	79.8	82.6
British Columbia, Canada	597	74.4	10.7	6.0	6.9	74.4	1.3	0.7	71.2	77.2
Dubai, UAE	428	56.7	11.8	14.0	12.5	56.7	3.8	1.2	56.3	57.2
Massachusetts, US	247	86.2	3.6	3.5	5.0	86.2	1.7	0.0	80.2	92.2
Minnesota, US	265	75.1	9.3	7.5	7.4	75.1	0.7	0.0	74.1	75.9
Ontario, Canada	496	78.8	8.9	5.4	5.6	78.8	1.3	0.0	76.1	81.5
Quebec, Canada	568	71.7	5.5	9.6	11.0	71.7	1.5	0.7	69.3	74.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Applying (S041193 - S14\_09)  
 Label: Vibrations start on a guitar  
 Type: MC Key: D

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	578	55.9	14.5	6.5	18.0	55.9	1.8	3.3	59.2	52.5
Armenia	581	80.4	3.0	4.5	7.4	80.4	3.7	1.1	76.5	83.7
Australia	575	67.8	12.8	5.0	13.3	67.8	0.5	0.5	65.1	71.0
Austria	686	61.0	25.4	4.3	8.4	61.0	0.5	0.3	61.9	60.3
Chinese Taipei	591	77.8	5.9	4.3	11.0	77.8	1.0	0.0	75.7	79.6
Colombia	659	76.1	4.5	2.9	11.4	76.1	0.6	4.5	76.9	75.5
Czech Republic	595	64.3	25.8	2.6	4.9	64.3	1.7	0.7	66.0	62.5
Denmark	496	72.6	6.1	3.8	13.6	72.6	1.4	2.6	71.9	73.7
El Salvador	591	71.0	8.6	3.9	11.9	71.0	1.4	3.1	72.9	69.1
England	617	71.9	10.1	8.8	8.0	71.9	1.1	0.1	73.7	70.4
Georgia	580	65.0	7.6	3.8	19.8	65.0	2.0	1.8	64.2	65.8
Germany	749	56.7	23.0	5.7	13.9	56.7	0.5	0.2	58.2	55.1
Hong Kong SAR	543	69.4	5.5	16.7	8.3	69.4	0.0	0.0	70.1	68.8
Hungary	577	86.6	4.5	3.1	3.9	86.6	1.1	0.9	89.3	83.1
Iran, Islamic Rep. of	553	69.0	8.4	3.5	16.7	69.0	1.6	0.7	69.5	68.4
Italy	634	74.7	11.0	6.6	5.6	74.7	1.4	0.5	75.4	73.9
Japan	643	70.8	9.7	9.7	9.5	70.8	0.2	0.1	71.0	70.7
Kazakhstan	566	68.6	20.8	3.3	7.2	68.6	0.1	0.0	67.8	69.7
Kuwait	531	29.7	14.4	16.1	31.0	29.7	4.6	4.1	28.7	31.0
Latvia	556	84.7	8.0	4.9	1.6	84.7	0.7	0.0	86.2	83.1
Lithuania	562	73.2	13.1	8.3	4.8	73.2	0.6	0.0	75.9	70.4
Morocco	543	31.4	18.0	17.5	27.6	31.4	3.4	2.2	29.6	32.6
Netherlands	475	79.7	6.8	9.3	3.7	79.7	0.5	0.0	74.0	84.7
New Zealand	706	68.1	11.4	5.5	12.7	68.1	1.5	0.9	71.1	65.1
Norway	580	69.3	11.5	5.9	8.5	69.3	3.1	1.7	72.2	66.7
Qatar	981	26.8	23.5	18.3	27.1	26.8	2.4	1.9	25.8	28.0
Russian Federation	641	71.8	16.7	3.4	7.5	71.8	0.4	0.1	70.4	73.1
Scotland	586	70.7	10.8	6.0	10.5	70.7	1.2	0.9	73.5	67.7
Singapore	711	77.9	4.6	7.3	10.2	77.9	0.0	0.0	75.1	80.4
Slovak Republic	717	72.8	13.5	3.0	8.8	72.8	1.1	0.7	69.9	75.8
Slovenia	629	68.9	21.1	3.6	4.6	68.9	1.0	0.7	67.9	70.0
Sweden	663	76.0	14.0	6.1	3.3	76.0	0.3	0.3	77.9	74.1
Tunisia	593	32.6	11.6	11.8	25.5	32.6	14.1	4.4	32.5	32.8
Ukraine	606	77.8	4.4	3.6	12.3	77.8	1.8	0.2	72.9	82.6
United States	1117	73.8	7.7	4.9	12.7	73.8	0.8	0.1	73.3	74.2
Yemen	826	22.2	19.7	23.9	25.1	22.2	5.6	3.5	19.5	24.3
International Avg.	634	65.8	12.2	7.2	11.9	65.8	1.8	1.2	65.6	65.8
Alberta, Canada	551	70.5	8.6	8.4	11.2	70.5	1.3	0.0	69.2	71.6
British Columbia, Canada	597	73.8	8.7	6.3	9.7	73.8	0.7	0.7	72.3	75.2
Dubai, UAE	428	62.3	8.8	9.8	15.9	62.3	1.6	1.5	67.0	57.8
Massachusetts, US	247	79.8	6.7	2.3	9.8	79.8	1.2	0.3	80.5	79.2
Minnesota, US	265	70.4	4.9	6.3	17.6	70.4	0.8	0.0	64.1	76.0
Ontario, Canada	496	73.8	5.6	4.8	14.5	73.8	1.2	0.1	78.8	68.8
Quebec, Canada	568	70.7	12.2	4.4	11.9	70.7	0.0	0.7	67.5	74.8

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Reasoning (S041149A - S14\_10A)  
 Label: Why water does not go into glass  
 Type: CR Key: -

COUNTRY	N	10	79	OMIT TED	NOT REACH ED	V1	1.GIRL %Right	2.BOY %Right
Algeria	608	12.8	59.5	24.6	3.1	12.8	10.4	15.1
Armenia	582	21.7	32.6	44.6	1.1	21.7	24.7	19.0
Australia	575	28.3	64.8	6.3	0.5	28.3	28.2	28.5
Austria	686	37.8	44.4	17.5	0.3	37.8	31.5	42.8
Chinese Taipei	591	60.8	27.9	11.3	0.0	60.8	56.8	64.5
Colombia	659	7.1	70.4	17.9	4.6	7.1	5.0	9.0
Czech Republic	595	34.7	50.1	14.5	0.7	34.7	26.3	43.5
Denmark	496	33.8	50.4	13.3	2.6	33.8	29.9	38.9
El Salvador	593	10.0	61.8	24.9	3.4	10.0	6.1	13.8
England	617	22.5	71.2	6.2	0.1	22.5	19.0	25.3
Georgia	580	15.2	47.0	35.5	2.3	15.2	13.2	17.1
Germany	749	38.9	48.0	12.9	0.2	38.9	34.0	44.0
Hong Kong SAR	543	47.0	44.1	9.0	0.0	47.0	46.7	47.3
Hungary	577	33.3	54.6	11.2	0.9	33.3	24.9	44.2
Iran, Islamic Rep. of	553	6.8	72.1	20.3	0.7	6.8	4.5	9.0
Italy	635	30.7	53.9	14.8	0.5	30.7	29.2	32.5
Japan	643	60.8	36.8	2.3	0.1	60.8	61.5	60.2
Kazakhstan	564	42.0	46.8	11.2	0.0	42.0	43.1	40.6
Kuwait	531	5.1	49.5	40.5	4.9	5.1	6.2	3.7
Latvia	556	31.5	64.1	4.4	0.0	31.5	30.6	32.5
Lithuania	562	16.7	72.0	11.3	0.0	16.7	16.7	16.7
Morocco	552	11.2	43.1	42.8	2.9	11.2	9.7	12.5
Netherlands	475	27.2	69.9	2.9	0.0	27.2	18.6	35.0
New Zealand	706	21.4	70.3	7.2	1.0	21.4	18.5	24.4
Norway	580	20.6	65.8	11.8	1.8	20.6	15.2	25.4
Qatar	981	3.0	53.7	41.3	2.0	3.0	3.6	2.4
Russian Federation	641	40.9	47.6	11.3	0.1	40.9	33.6	47.6
Scotland	586	17.6	71.3	9.5	1.5	17.6	14.9	20.5
Singapore	710	78.8	20.6	0.6	0.0	78.8	79.7	78.0
Slovak Republic	717	37.1	49.1	12.9	1.0	37.1	32.9	41.3
Slovenia	629	29.9	63.1	6.1	0.9	29.9	26.1	33.8
Sweden	663	41.5	49.8	8.3	0.4	41.5	36.9	46.3
Tunisia	592	16.4	59.4	20.1	4.2	16.4	17.8	15.0
Ukraine	606	31.9	36.0	31.9	0.2	31.9	24.7	38.8
United States	1117	26.3	69.9	3.7	0.1	26.3	22.2	30.5
Yemen	826	3.6	63.5	29.1	3.8	3.6	3.7	3.5
International Avg.	635	27.9	54.3	16.5	1.3	27.9	25.2	30.6
Alberta, Canada	551	30.0	63.3	6.7	0.0	30.0	24.1	34.9
British Columbia, Canada	597	28.2	62.0	9.2	0.7	28.2	23.8	32.2
Dubai, UAE	428	14.8	62.9	20.8	1.5	14.8	18.4	11.5
Massachusetts, US	247	30.3	68.7	0.7	0.3	30.3	25.7	34.8
Minnesota, US	265	32.6	64.9	2.5	0.0	32.6	31.3	33.8
Ontario, Canada	496	27.1	69.4	3.5	0.1	27.1	23.9	30.2
Quebec, Canada	568	26.2	61.9	11.2	0.7	26.2	21.1	32.7

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Reasoning (S041149B - S14\_10B)

Label: Why tipping caused cotton to get wet

Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT	V1	1.GIRL %Right	2.BOY %Right
						REACH ED			
Algeria	608	12.7	7.6	47.1	29.5	3.1	20.3	18.5	22.0
Armenia	581	16.9	3.8	32.8	45.4	1.1	20.7	23.8	17.9
Australia	575	13.2	10.8	69.1	6.3	0.5	24.0	19.3	29.4
Austria	686	13.9	15.2	49.4	21.2	0.3	29.1	23.2	33.9
Chinese Taipei	591	16.5	39.6	36.4	7.4	0.0	56.1	55.5	56.8
Colombia	659	2.7	3.6	71.8	17.4	4.6	6.2	2.9	9.2
Czech Republic	596	11.9	17.3	55.2	14.9	0.7	29.3	21.4	37.5
Denmark	496	14.8	13.2	54.9	14.5	2.6	28.0	22.4	35.6
El Salvador	593	4.1	3.4	59.9	29.2	3.4	7.5	4.5	10.6
England	617	10.4	8.2	74.9	6.3	0.1	18.7	15.6	21.2
Georgia	580	6.2	2.6	51.1	37.8	2.3	8.8	5.6	11.8
Germany	749	19.1	14.5	52.0	14.2	0.2	33.6	26.9	40.7
Hong Kong SAR	543	23.4	25.1	43.4	8.2	0.0	48.5	48.3	48.7
Hungary	577	19.6	14.5	54.4	10.7	0.9	34.0	27.0	43.0
Iran, Islamic Rep. of	553	2.6	4.0	69.2	23.5	0.7	6.5	5.1	8.0
Italy	635	19.2	5.9	57.6	16.8	0.5	25.1	22.3	28.1
Japan	643	24.4	35.9	36.9	2.7	0.1	60.3	57.0	63.3
Kazakhstan	566	18.3	11.7	56.6	13.4	0.0	30.0	29.2	31.1
Kuwait	531	4.1	3.3	44.9	42.9	4.9	7.4	9.4	4.9
Latvia	556	17.7	5.2	69.7	7.4	0.0	22.9	23.1	22.7
Lithuania	562	9.7	6.8	72.8	10.6	0.0	16.6	16.5	16.6
Morocco	552	3.2	4.5	41.1	48.3	2.9	7.7	7.4	7.8
Netherlands	475	10.9	14.3	72.5	2.3	0.0	25.2	17.0	32.6
New Zealand	706	9.6	10.0	70.3	9.1	1.0	19.6	16.3	23.0
Norway	580	9.5	9.8	64.7	14.3	1.8	19.3	12.8	25.0
Qatar	981	1.7	1.3	49.7	45.3	2.0	3.0	3.4	2.7
Russian Federation	641	16.3	19.1	50.6	13.9	0.1	35.4	25.7	44.4
Scotland	586	8.7	8.1	69.7	12.0	1.5	16.8	14.0	19.6
Singapore	710	47.9	29.6	21.9	0.6	0.0	77.5	76.8	78.1
Slovak Republic	717	17.7	16.3	52.0	13.0	1.0	34.0	26.5	41.6
Slovenia	629	14.9	10.4	65.0	8.8	0.9	25.3	24.6	26.1
Sweden	663	18.8	13.7	58.4	8.6	0.4	32.5	30.0	35.1
Tunisia	592	8.2	3.0	59.3	25.3	4.2	11.2	12.3	10.0
Ukraine	606	7.7	16.9	45.6	29.6	0.2	24.6	20.9	28.2
United States	1117	12.3	10.5	73.8	3.2	0.1	22.9	19.3	26.6
Yemen	826	1.5	0.9	60.7	33.1	3.8	2.4	2.6	2.4
International Avg.	636	13.1	11.7	56.0	18.0	1.3	24.7	21.9	27.7
Alberta, Canada	551	15.8	12.9	64.6	6.7	0.0	28.8	23.0	33.5
British Columbia, Canada	597	12.5	11.1	66.8	8.9	0.7	23.6	22.7	24.5
Dubai, UAE	428	6.6	5.0	63.3	23.5	1.5	11.7	14.7	8.8
Massachusetts, US	247	16.3	12.5	70.3	0.7	0.3	28.8	27.4	30.2
Minnesota, US	265	17.8	10.4	69.8	2.0	0.0	28.2	22.8	32.9
Ontario, Canada	496	13.9	11.5	69.3	5.2	0.1	25.4	22.4	28.4
Quebec, Canada	568	9.1	9.4	68.4	12.4	0.7	18.5	15.4	22.5

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Earth Science / Reasoning (S041149D - S14\_10D)  
 Label: Water into glass - Cotton gets wet/DERIVED  
 Type: CR Key: -

COUNTRY	N	20	10	70	OMIT TED	NOT REACH ED	V1	V2	1.GIRL	2.BOY
									%Right	%Right
Algeria	608	7.7	17.7	49.0	22.5	3.1	25.4	7.7	6.2	9.2
Armenia	581	17.3	7.7	34.7	39.2	1.1	25.0	17.3	18.6	16.3
Australia	575	19.0	14.4	61.7	4.3	0.5	33.4	19.0	17.4	20.7
Austria	686	25.8	15.3	43.4	15.2	0.3	41.0	25.8	19.5	30.9
Chinese Taipei	591	51.1	14.8	29.1	5.0	0.0	65.9	51.1	49.0	53.0
Colombia	659	5.4	2.6	72.4	15.1	4.6	8.0	5.4	2.5	8.0
Czech Republic	595	24.6	14.9	49.6	10.2	0.7	39.4	24.6	17.7	31.8
Denmark	496	22.9	16.0	48.3	10.3	2.6	38.9	22.9	18.2	29.2
El Salvador	593	5.6	6.3	62.5	22.3	3.4	11.9	5.6	3.0	8.2
England	617	15.7	9.7	70.3	4.1	0.1	25.4	15.7	12.4	18.4
Georgia	580	8.0	8.0	50.1	31.5	2.3	16.0	8.0	5.3	10.6
Germany	749	28.9	14.6	47.0	9.3	0.2	43.6	28.9	22.4	35.7
Hong Kong SAR	543	39.8	15.7	38.8	5.6	0.0	55.6	39.8	39.1	40.6
Hungary	577	27.5	12.4	51.0	8.2	0.9	39.8	27.5	19.3	38.0
Iran, Islamic Rep. of	553	4.2	5.0	74.1	16.0	0.7	9.2	4.2	2.5	5.8
Italy	635	23.1	9.6	54.4	12.3	0.5	32.7	23.1	20.3	26.1
Japan	643	53.0	15.2	29.5	2.3	0.1	68.1	53.0	52.7	53.3
Kazakhstan	564	24.8	22.5	46.7	5.9	0.0	47.4	24.8	24.2	25.6
Kuwait	531	3.2	6.0	50.0	35.9	4.9	9.2	3.2	3.5	3.0
Latvia	556	19.9	14.6	62.4	3.1	0.0	34.5	19.9	20.1	19.7
Lithuania	562	13.2	6.9	71.3	8.6	0.0	20.1	13.2	12.9	13.5
Morocco	552	5.3	8.4	44.3	39.2	2.9	13.6	5.3	5.5	4.8
Netherlands	475	19.4	13.7	65.5	1.4	0.0	33.0	19.4	12.8	25.3
New Zealand	706	16.2	8.7	67.9	6.3	1.0	24.9	16.2	14.4	17.9
Norway	580	14.3	11.4	63.0	9.6	1.8	25.6	14.3	10.1	18.0
Qatar	981	1.9	2.3	55.7	38.1	2.0	4.2	1.9	1.8	2.0
Russian Federation	641	32.8	10.7	46.2	10.2	0.1	43.5	32.8	24.3	40.7
Scotland	586	13.3	7.9	70.4	7.0	1.5	21.1	13.3	10.0	16.6
Singapore	710	71.9	12.5	15.2	0.4	0.0	84.4	71.9	72.2	71.5
Slovak Republic	717	29.3	12.5	46.9	10.4	1.0	41.8	29.3	23.6	35.0
Slovenia	629	20.9	13.4	59.4	5.4	0.9	34.3	20.9	19.1	22.7
Sweden	663	29.1	15.8	49.4	5.2	0.4	44.9	29.1	26.7	31.5
Tunisia	592	7.6	12.3	58.4	17.5	4.2	19.9	7.6	8.2	7.1
Ukraine	606	21.3	13.8	38.8	25.9	0.2	35.1	21.3	17.2	25.4
United States	1117	19.2	10.8	67.5	2.4	0.1	30.0	19.2	16.0	22.4
Yemen	826	1.8	2.4	66.0	26.0	3.8	4.2	1.8	2.0	1.6
International Avg.	635	20.7	11.3	53.1	13.7	1.3	32.0	20.7	18.1	23.3
Alberta, Canada	551	23.5	11.8	59.4	5.4	0.0	35.3	23.5	16.7	29.0
British Columbia, Canada	597	18.2	15.4	59.8	5.9	0.7	33.6	18.2	16.1	20.2
Dubai, UAE	428	9.2	8.0	63.7	17.5	1.5	17.2	9.2	11.8	6.8
Massachusetts, US	247	24.3	10.4	64.3	0.7	0.3	34.7	24.3	23.2	25.4
Minnesota, US	265	24.8	11.2	62.5	1.5	0.0	36.0	24.8	18.1	30.6
Ontario, Canada	496	20.6	11.2	65.5	2.6	0.1	31.8	20.6	17.2	24.0
Quebec, Canada	568	15.9	13.0	60.5	9.9	0.7	28.8	15.9	12.3	20.4

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Life Science / Knowing (S041032 - S14\_11)  
 Label: Staying in sun with no protection  
 Type: CR Key: -

COUNTRY	N	10	11	19	79	OMIT TED	NOT REACH ED	V1	1.GIRL	2.BOY
									%Right	%Right
Algeria	607	1.9	22.5	4.5	26.7	33.6	10.9	28.8	31.4	26.3
Armenia	581	61.7	2.2	7.3	4.8	20.3	3.8	71.2	75.8	67.2
Australia	575	39.2	55.3	2.3	1.7	0.8	0.7	96.8	97.0	96.6
Austria	686	5.0	85.0	2.7	3.8	2.5	1.1	92.6	94.3	91.3
Chinese Taipei	591	5.1	77.2	4.8	8.3	4.0	0.7	87.1	87.9	86.3
Colombia	659	10.5	56.8	3.9	8.0	13.0	7.8	71.2	71.9	70.6
Czech Republic	596	2.5	81.1	4.2	6.4	4.8	1.0	87.8	89.6	86.0
Denmark	496	6.9	79.0	4.2	3.1	2.3	4.5	90.2	91.5	88.3
El Salvador	593	4.7	56.2	5.3	8.9	16.1	8.9	66.1	66.4	65.7
England	617	13.8	76.4	4.5	3.6	1.4	0.3	94.6	95.4	94.1
Georgia	580	5.9	67.4	2.7	4.4	13.7	5.9	76.0	74.4	77.5
Germany	749	2.9	87.1	3.7	1.8	3.3	1.2	93.7	94.4	92.9
Hong Kong SAR	543	14.8	57.8	11.8	9.1	6.3	0.2	84.4	86.7	82.2
Hungary	577	8.5	83.0	2.9	2.6	1.7	1.4	94.4	95.3	93.1
Iran, Islamic Rep. of	552	0.1	56.7	12.5	14.9	11.5	4.2	69.3	74.0	64.7
Italy	635	1.4	81.1	6.8	4.7	4.8	1.3	89.2	91.3	86.8
Japan	643	1.2	64.0	9.8	22.3	2.4	0.2	75.0	79.6	71.0
Kazakhstan	566	11.6	78.6	0.2	6.1	3.2	0.2	90.4	92.2	88.1
Kuwait	531	0.2	22.3	8.2	21.4	38.9	9.0	30.7	38.8	20.9
Latvia	556	4.4	83.3	7.7	3.6	0.9	0.2	95.3	97.2	93.3
Lithuania	562	2.2	63.2	24.1	7.6	2.7	0.2	89.5	92.5	86.4
Morocco	552	1.2	13.9	4.6	25.5	45.9	9.1	19.6	20.1	18.5
Netherlands	475	3.2	90.6	2.7	2.4	1.0	0.0	96.5	98.1	95.2
New Zealand	706	24.6	64.2	2.9	3.0	3.6	1.7	91.7	94.6	88.8
Norway	580	1.6	84.5	1.8	7.2	2.5	2.3	87.9	89.0	86.9
Qatar	981	0.0	16.7	3.8	32.2	40.5	6.7	20.6	23.1	17.9
Russian Federation	641	0.3	76.9	11.2	5.6	5.0	1.1	88.4	90.3	86.5
Scotland	586	9.5	79.4	4.3	3.2	1.8	1.9	93.1	96.2	90.0
Singapore	711	9.4	81.3	4.6	3.6	1.1	0.0	95.3	96.7	94.0
Slovak Republic	717	6.4	74.0	6.9	4.8	5.5	2.4	87.3	87.2	87.4
Slovenia	629	5.8	79.9	4.9	6.1	1.7	1.6	90.6	92.1	89.1
Sweden	663	4.4	76.5	10.2	5.2	2.6	1.0	91.2	93.8	88.6
Tunisia	592	3.2	33.4	2.7	33.1	18.9	8.7	39.4	45.6	33.2
Ukraine	606	10.0	60.8	10.0	7.9	10.4	1.0	80.7	82.6	78.9
United States	1117	11.9	74.2	7.2	4.4	1.8	0.4	93.3	93.6	93.1
Yemen	826	0.2	3.1	2.0	39.0	47.6	8.2	5.3	4.9	5.5
International Avg.	635	8.2	62.4	5.9	9.9	10.5	3.0	76.5	78.5	74.5
Alberta, Canada	551	7.5	80.9	4.6	3.8	2.7	0.6	93.0	90.9	94.6
British Columbia, Canada	597	8.0	81.1	3.2	3.8	2.8	1.0	92.4	94.0	90.9
Dubai, UAE	428	4.3	52.5	9.4	17.2	12.7	3.9	66.2	70.7	62.0
Massachusetts, US	247	12.7	82.8	3.1	1.1	0.0	0.3	98.6	98.4	98.8
Minnesota, US	265	15.7	72.4	4.1	3.4	3.9	0.4	92.2	90.1	94.1
Ontario, Canada	496	8.1	82.9	2.2	4.9	1.7	0.2	93.2	95.3	91.1
Quebec, Canada	568	11.1	79.7	3.0	1.4	3.4	1.4	93.8	95.9	91.1

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041068 - S14\_12)  
 Label: One source of energy for electricity  
 Type: CR Key: -

COUNTRY	N	10	11	79	OMIT TED	NOT	1.GIRL	2.BOY	
						REACH ED			V1
Algeria	609	7.7	1.7	44.6	30.7	15.2	9.4	9.2	9.7
Armenia	581	27.6	10.1	16.3	41.6	4.4	37.7	42.1	33.8
Australia	575	34.3	3.7	51.9	9.1	1.0	38.0	30.8	45.9
Austria	686	49.7	10.8	19.9	18.2	1.5	60.5	50.5	68.6
Chinese Taipei	591	60.8	3.4	23.1	11.3	1.4	64.2	62.0	66.2
Colombia	659	23.8	1.6	42.5	20.1	11.9	25.4	19.2	30.8
Czech Republic	596	28.7	9.2	33.9	26.6	1.6	37.9	24.9	51.5
Denmark	496	22.6	10.0	35.7	26.2	5.4	32.6	31.4	34.1
El Salvador	593	24.0	1.5	36.8	27.8	9.9	25.5	16.0	34.9
England	617	30.7	4.8	46.3	17.2	0.9	35.5	35.5	35.6
Georgia	580	21.9	1.2	19.1	50.1	7.6	23.1	22.4	23.8
Germany	749	40.9	12.7	28.3	16.0	2.2	53.6	49.9	57.5
Hong Kong SAR	543	54.8	2.4	36.2	5.3	1.3	57.2	47.4	67.3
Hungary	577	23.8	5.3	40.0	29.0	1.9	29.1	19.3	41.6
Iran, Islamic Rep. of	552	38.3	6.3	25.6	24.1	5.8	44.6	46.7	42.5
Italy	634	59.2	2.5	19.6	16.5	2.2	61.7	58.9	64.8
Japan	643	32.3	9.1	46.1	12.2	0.3	41.4	38.9	43.6
Kazakhstan	566	54.2	1.7	30.1	13.8	0.2	55.8	57.3	53.9
Kuwait	531	6.0	3.6	36.6	42.4	11.4	9.6	10.1	8.9
Latvia	556	57.7	9.7	19.6	12.6	0.4	67.4	61.8	73.6
Lithuania	562	38.7	10.9	28.8	21.2	0.5	49.6	45.7	53.5
Morocco	552	9.8	1.7	28.3	48.2	12.0	11.5	11.8	11.1
Netherlands	475	34.0	15.1	44.2	5.8	1.0	49.1	43.5	54.1
New Zealand	706	42.9	4.7	40.2	10.2	2.0	47.6	41.6	53.7
Norway	580	37.8	7.2	32.0	19.9	3.1	45.0	37.4	51.7
Qatar	981	3.6	9.4	35.7	43.0	8.3	13.0	13.0	13.1
Russian Federation	641	42.3	2.5	30.4	23.4	1.3	44.8	45.6	44.1
Scotland	586	29.2	4.9	46.6	17.4	1.9	34.1	28.1	40.5
Singapore	711	50.5	8.1	39.8	1.2	0.4	58.6	57.6	59.5
Slovak Republic	717	51.0	6.3	20.5	18.8	3.4	57.3	52.5	62.2
Slovenia	629	42.1	11.8	26.5	17.5	2.2	53.8	47.9	59.8
Sweden	663	38.9	9.2	26.0	24.7	1.2	48.1	40.1	56.3
Tunisia	593	18.7	0.7	40.1	28.5	12.0	19.4	21.0	17.7
Ukraine	606	25.3	0.3	26.5	45.7	2.2	25.6	24.7	26.5
United States	1117	28.4	7.4	58.1	5.1	0.9	35.9	32.9	38.9
Yemen	826	6.4	1.2	39.1	42.2	11.1	7.6	6.7	8.3
International Avg.	636	33.3	5.9	33.8	22.9	4.2	39.2	35.7	42.8
Alberta, Canada	551	44.4	5.3	41.0	7.8	1.6	49.7	52.2	47.5
British Columbia, Canada	597	40.0	5.3	41.2	11.5	2.0	45.3	42.7	47.8
Dubai, UAE	428	31.0	3.1	37.5	23.6	4.8	34.1	34.8	33.4
Massachusetts, US	247	36.4	12.0	47.0	4.3	0.3	48.4	43.2	53.6
Minnesota, US	265	39.4	6.3	48.7	3.7	1.8	45.7	44.4	46.9
Ontario, Canada	496	43.7	3.5	42.4	10.0	0.5	47.2	40.1	54.2
Quebec, Canada	567	36.2	7.4	35.9	18.7	1.8	43.6	39.2	49.3

V1 = Percent scoring 1 or better      V2 = Percent scoring 2 or better  
 Percent right for boys and girls corresponds to the percent obtaining the maximum score on the item.  
 Because of missing gender information, some totals may appear inconsistent.

Science: Physical Science / Knowing (S041303 - S14\_13)  
 Label: New substances with new properties  
 Type: MC Key: A

COUNTRY	N	DIFF	A	B	C	D	OMIT TED	NOT REACH ED	1.GIRL %Right	2.BOY %Right
Algeria	579	24.3	24.3	14.3	22.9	18.0	4.8	15.7	25.6	22.9
Armenia	577	57.6	57.6	11.4	5.5	14.6	5.3	5.6	58.9	56.4
Australia	575	37.8	37.8	12.0	19.4	26.8	2.4	1.6	41.9	33.2
Austria	686	47.9	47.9	19.4	12.6	12.4	4.8	2.9	45.6	49.7
Chinese Taipei	591	66.3	66.3	13.4	8.8	9.4	0.4	1.7	60.3	71.8
Colombia	659	37.0	37.0	10.8	18.6	15.0	3.4	15.2	40.4	34.1
Czech Republic	596	61.3	61.3	10.5	10.6	7.2	7.9	2.5	61.3	61.3
Denmark	496	56.7	56.7	8.4	10.6	10.8	5.1	8.4	52.5	62.4
El Salvador	593	33.1	33.1	15.4	21.3	15.7	3.3	11.2	32.5	33.7
England	617	44.9	44.9	14.8	15.6	19.2	3.8	1.7	49.0	41.6
Georgia	580	37.5	37.5	14.5	14.4	18.1	5.4	10.1	37.7	37.3
Germany	749	59.2	59.2	7.5	13.4	11.9	4.4	3.5	57.5	60.9
Hong Kong SAR	543	66.2	66.2	10.0	7.2	14.7	0.6	1.3	62.3	70.1
Hungary	577	55.8	55.8	9.0	10.7	20.6	1.7	2.2	56.4	55.1
Iran, Islamic Rep. of	552	36.0	36.0	11.7	17.9	24.9	3.0	6.6	35.3	36.6
Italy	633	67.9	67.9	8.8	6.3	10.6	2.9	3.5	68.8	66.8
Japan	643	39.7	39.7	14.4	12.8	30.8	1.3	1.0	36.9	42.2
Kazakhstan	566	54.7	54.7	10.4	9.6	24.6	0.4	0.4	57.6	51.0
Kuwait	531	25.9	25.9	16.0	22.4	17.8	5.9	11.9	27.1	24.6
Latvia	556	59.2	59.2	10.3	11.2	15.8	1.0	2.5	57.8	60.8
Lithuania	562	49.7	49.7	10.6	12.4	22.1	3.1	2.2	45.4	54.0
Morocco	536	26.1	26.1	11.8	24.1	17.8	7.1	13.1	29.9	22.1
Netherlands	475	26.8	26.8	22.5	15.7	32.2	1.7	1.0	31.1	23.0
New Zealand	706	37.2	37.2	11.9	19.8	26.4	1.9	2.8	38.2	36.1
Norway	580	47.4	47.4	12.1	16.4	18.0	1.6	4.4	50.2	44.9
Qatar	981	26.5	26.5	21.8	21.6	16.7	4.5	8.8	26.7	26.4
Russian Federation	641	62.0	62.0	6.8	10.9	14.9	3.5	2.0	58.4	65.2
Scotland	586	40.6	40.6	16.2	13.9	22.1	4.1	3.0	37.2	44.2
Singapore	711	53.4	53.4	11.8	12.8	21.5	0.1	0.4	49.7	56.9
Slovak Republic	717	58.0	58.0	10.8	8.8	15.2	3.4	3.9	55.4	60.6
Slovenia	629	55.3	55.3	14.5	12.6	11.9	2.7	3.0	52.9	57.7
Sweden	663	48.6	48.6	13.6	13.5	19.1	3.3	2.0	43.4	53.9
Tunisia	592	32.0	32.0	9.9	15.8	13.3	13.7	15.2	33.5	30.6
Ukraine	606	49.8	49.8	8.6	12.9	22.1	2.6	4.0	48.0	51.6
United States	1117	40.8	40.8	13.1	20.3	22.5	2.0	1.4	42.5	39.0
Yemen	826	23.8	23.8	16.6	24.7	18.2	5.2	11.6	21.6	25.5
International Avg.	634	45.7	45.7	12.6	14.7	18.1	3.6	5.2	45.3	46.2
Alberta, Canada	551	40.1	40.1	12.7	17.4	27.0	0.9	1.8	39.1	41.0
British Columbia, Canada	597	38.3	38.3	11.4	18.1	25.2	4.4	2.5	36.7	39.8
Dubai, UAE	428	39.2	39.2	10.5	18.0	21.3	5.8	5.2	39.1	39.2
Massachusetts, US	247	49.5	49.5	8.8	20.6	17.6	1.8	1.6	49.2	49.8
Minnesota, US	265	39.1	39.1	15.5	22.7	19.7	1.1	1.8	34.1	43.5
Ontario, Canada	496	40.4	40.4	12.8	17.2	26.7	1.9	0.9	39.1	41.8
Quebec, Canada	568	56.0	56.0	8.9	14.2	15.7	3.1	2.2	55.6	56.4

DIFF = Percent correct  
 Because of missing gender information, some totals may appear inconsistent.