

Science: Life Science / Knowing
A_SD1_01 SE71009: Bird, insect, mammal, or reptile (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	72.7	6.7	40.7	51.6	0.5	0.5	72.2	73.2
	2023	1980	67.1	9.1	46.4	42.7	0.9	0.9	66.8	67.6
Chile	2019	585	55.0	16.7	55.3	26.4	1.0	0.6	54.0	55.9
	2023	649	55.9	16.9	51.0	28.2	2.7	1.1	56.3	55.6
Chinese Taipei	2019	535	66.5	6.3	54.2	39.3	0.2	0.0	64.8	68.0
	2023	1067	59.4	10.0	61.1	28.7	0.0	0.1	58.5	60.2
Czech Republic	2019	664	76.5	2.7	41.3	55.6	0.4	0.0	75.7	77.5
	2023	997	74.1	3.6	44.3	51.6	0.3	0.2	74.1	74.1
Denmark	2019	455	59.1	12.8	55.6	30.9	0.3	0.3	58.8	59.5
	2023	747	55.3	17.0	53.8	27.5	0.5	1.2	55.8	54.8
England	2019	483	63.4	8.9	55.2	35.5	0.4	0.0	63.6	63.2
	2023	602	63.1	10.6	52.2	36.6	0.0	0.7	62.6	63.9
Finland	2019	671	62.3	10.4	53.9	34.9	0.8	0.0	60.6	64.0
	2023	856	54.7	16.0	57.6	25.3	0.7	0.4	55.6	53.8
France	2019	604	58.9	12.5	55.4	29.8	2.0	0.2	60.5	57.0
	2023	679	56.4	14.7	55.2	27.3	1.7	1.1	55.8	57.1
Georgia	2019	528	50.1	16.2	65.4	16.4	1.7	0.3	50.9	49.3
	2023	651	51.7	15.3	61.9	18.6	2.3	2.0	52.6	50.9
Germany	2019	485	62.6	11.2	50.9	35.8	1.4	0.7	62.2	62.9
	2023	644	55.1	22.3	43.2	32.4	1.7	0.4	54.8	55.4
Hong Kong SAR	2019	419	74.7	3.5	43.7	52.8	0.0	0.0	74.6	74.8
	2023	607	65.3	9.5	50.3	40.2	0.0	0.0	63.2	67.4
Hungary	2019	640	58.8	16.0	50.2	33.6	0.3	0.0	59.2	58.5
	2023	763	56.2	16.3	54.6	28.7	0.1	0.3	57.5	55.0
Italy	2019	539	58.8	14.2	52.8	31.6	1.4	0.0	58.2	59.2
	2023	659	60.9	14.3	47.9	35.6	1.8	0.4	59.1	62.6
Korea, Rep. of	2019	556	46.2	30.0	47.4	22.4	0.2	0.0	45.8	46.6
	2023	871	43.2	31.6	50.0	18.0	0.2	0.1	40.5	45.5
Lithuania	2019	533	64.3	9.8	51.8	38.4	0.0	0.0	65.0	63.7
	2023	658	56.2	13.5	60.7	25.8	0.0	0.0	56.8	55.5
Netherlands	2019	470	61.9	9.4	56.6	32.9	1.1	0.0	60.2	63.4
	2023	507	56.7	16.1	53.9	29.5	0.3	0.2	55.1	58.3
Norway (5)	2019	558	51.0	20.5	56.3	22.4	0.4	0.5	51.5	50.4
	2023	783	49.8	18.4	62.1	18.1	0.5	0.8	50.7	48.9
Portugal	2019	613	65.0	9.6	50.2	39.2	0.7	0.3	64.1	65.6
	2023	749	63.9	11.2	48.6	38.4	1.0	0.8	62.0	65.9
Qatar	2019	710	48.7	21.7	57.0	19.1	1.3	0.9	49.9	47.4
	2023	940	50.6	20.5	55.8	21.7	0.9	1.1	53.8	47.7
Singapore	2019	843	91.0	2.1	13.8	83.8	0.3	0.0	89.6	92.4
	2023	1276	86.4	3.2	20.7	76.0	0.2	0.0	87.1	85.9
Slovak Republic	2019	610	69.8	4.1	51.8	43.5	0.5	0.0	72.8	67.2
	2023	694	60.0	12.9	53.6	32.8	0.7	0.0	57.9	61.7
Spain	2019	1363	69.3	5.0	51.0	43.3	0.7	0.0	68.3	70.2
	2023	1477	64.9	10.4	48.7	39.8	0.3	0.8	63.3	66.5

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

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COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	55.4	18.6	50.9	29.3	0.9	0.3	56.1	54.7
	2023	744	49.5	25.4	49.0	24.4	1.0	0.3	48.0	51.3
United Arab Emirates	2019	3701	56.5	20.7	44.1	33.5	1.4	0.3	56.3	56.7
	2023	4334	55.3	21.8	44.2	32.1	1.0	0.8	54.3	56.3
United States	2019	1257	74.1	4.4	42.3	52.0	0.6	0.8	72.7	75.3
	2023	1256	67.4	11.0	41.8	44.9	0.6	1.7	67.4	67.3

International Avg. (25)	2019	20347	62.9	11.8	49.9	37.4	0.7	0.2	62.7	63.1
	2023	25190	59.2	14.9	50.7	33.0	0.8	0.6	58.8	59.6

Abu Dhabi, UAE	2019	1306	43.0	35.2	40.9	21.6	1.9	0.5	44.0	41.8
	2023	1073	41.7	38.1	37.4	21.9	1.2	1.4	41.8	41.5
Dubai, UAE	2019	1040	68.4	8.8	45.4	45.4	0.2	0.1	67.8	68.9
	2023	1368	65.2	11.1	47.1	41.4	0.4	0.1	64.1	66.3
Ontario, Canada	2019	540	72.2	8.3	38.4	52.2	0.5	0.7	71.8	72.6
	2023	607	65.6	10.1	47.1	40.7	1.5	0.6	65.3	65.8
Quebec, Canada	2019	552	73.9	4.4	43.1	51.8	0.5	0.1	72.9	74.8
	2023	558	67.4	9.4	45.6	43.9	0.1	1.0	67.9	67.6

DIFF = Percent correct
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Science: Life Science / Applying
A_SD1_02 SE71093: Why Amy should wash hands - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	74.1	25.3	72.2	2.1	0.5	73.6	74.6
	2023	1980	78.4	20.9	75.9	1.9	1.3	80.4	76.6
Chile	2019	585	49.1	48.2	46.5	4.2	1.1	50.4	47.8
	2023	649	57.5	38.5	52.0	7.3	2.2	59.4	55.8
Chinese Taipei	2019	535	76.9	22.6	75.4	1.9	0.0	79.7	74.4
	2023	1066	79.6	20.0	78.0	2.0	0.1	83.9	75.8
Czech Republic	2019	664	58.1	40.7	56.4	2.9	0.0	58.6	57.5
	2023	997	68.5	30.3	65.9	3.5	0.2	68.4	68.5
Denmark	2019	455	78.9	20.7	77.5	1.3	0.4	80.0	77.7
	2023	747	72.4	26.6	69.9	2.0	1.6	76.1	68.6
England	2019	483	81.1	18.9	80.9	0.2	0.0	82.2	79.9
	2023	602	87.2	12.7	86.5	0.2	0.7	87.5	86.7
Finland	2019	671	76.5	23.2	75.6	1.2	0.0	81.2	71.7
	2023	856	81.9	17.4	79.0	3.1	0.4	85.5	78.2
France	2019	604	72.0	26.8	69.0	3.9	0.2	75.7	67.8
	2023	679	69.0	28.3	62.8	7.0	1.9	68.2	69.7
Georgia	2019	527	60.0	37.7	56.6	5.4	0.3	63.7	56.5
	2023	651	64.5	31.1	56.5	9.2	3.1	67.5	61.5
Germany	2019	485	76.5	22.9	74.2	2.3	0.7	82.3	70.3
	2023	644	75.8	22.9	71.6	4.4	1.1	78.6	73.0
Hong Kong SAR	2019	419	67.4	31.7	65.6	2.7	0.0	70.9	64.3
	2023	607	72.0	26.6	68.3	5.0	0.2	73.9	70.0
Hungary	2019	640	55.4	44.2	54.9	0.9	0.0	61.8	49.7
	2023	762	56.1	42.8	54.6	2.3	0.3	60.3	51.8
Italy	2019	539	53.6	44.9	51.9	3.2	0.0	50.5	56.1
	2023	659	57.0	40.2	53.3	5.0	1.5	59.8	54.4
Korea, Rep. of	2019	556	84.6	15.3	83.8	1.0	0.0	86.1	83.2
	2023	871	76.9	22.9	76.2	0.7	0.1	78.8	75.2
Lithuania	2019	533	71.9	27.4	70.2	2.4	0.0	71.0	72.7
	2023	658	78.1	21.2	75.7	2.9	0.1	79.4	76.7
Netherlands	2019	470	59.7	39.4	58.3	2.3	0.0	63.0	56.9
	2023	507	68.0	31.1	66.2	2.4	0.2	67.7	67.8
Norway (5)	2019	558	87.3	12.5	86.0	0.8	0.6	89.0	85.6
	2023	783	84.3	15.0	80.5	3.1	1.4	85.9	82.6
Portugal	2019	613	64.7	34.1	62.4	3.1	0.5	66.5	63.2
	2023	749	65.6	32.8	62.4	3.7	1.1	70.7	59.8
Qatar	2019	710	59.4	38.7	56.5	3.4	1.3	64.9	53.9
	2023	938	63.9	33.7	59.6	5.0	1.7	64.8	63.0
Singapore	2019	843	87.0	12.9	86.6	0.5	0.0	88.6	85.5
	2023	1276	88.9	11.0	88.1	0.9	0.1	90.8	87.2
Slovak Republic	2019	610	60.4	38.7	59.1	2.2	0.0	59.2	61.5
	2023	693	65.7	33.3	63.6	3.1	0.0	65.9	65.4
Spain	2019	1364	53.7	45.0	52.2	2.8	0.0	59.9	48.6
	2023	1477	54.1	42.3	49.9	6.6	1.2	55.2	53.1

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Science: Life Science / Applying
A_SD1_02 SE71093: Why Amy should wash hands - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	73.6	26.0	72.5	1.2	0.3	80.7	66.8
	2023	744	76.3	22.8	73.5	3.1	0.5	78.9	74.0
United Arab Emirates	2019	3705	58.7	39.7	56.5	3.3	0.5	62.9	54.7
	2023	4331	65.8	32.5	62.5	3.6	1.4	67.1	64.6
United States	2019	1257	76.8	22.7	75.4	1.1	0.8	80.2	73.8
	2023	1256	75.6	23.5	72.8	1.3	2.4	75.6	75.6

International Avg. (25)	2019	20351	68.7	30.4	67.1	2.2	0.3	71.3	66.2
	2023	25182	71.3	27.2	68.2	3.6	1.0	73.2	69.4

Abu Dhabi, UAE	2019	1308	41.8	55.8	40.1	3.5	0.7	47.6	36.3
	2023	1073	47.7	49.2	44.8	3.9	2.1	51.1	44.1
Dubai, UAE	2019	1040	77.9	21.9	77.3	0.6	0.2	80.3	75.5
	2023	1367	84.1	15.6	82.4	1.6	0.4	85.1	83.3
Ontario, Canada	2019	540	72.5	26.9	70.9	1.5	0.7	72.4	72.7
	2023	607	79.5	19.8	76.7	2.1	1.3	78.6	80.3
Quebec, Canada	2019	552	77.2	22.1	75.0	2.7	0.1	77.7	76.9
	2023	558	75.6	23.7	73.6	1.7	1.0	79.6	71.8

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Science: Life Science / Applying

A_SD1_03 SE71069: How an owl gets energy from the Sun - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	45.7	12.5	44.7	29.4	11.1	1.6	0.5	42.7	48.5
	2023	1979	54.4	9.7	52.9	23.7	10.9	1.5	1.4	51.0	58.3
Chile	2019	585	38.2	14.1	36.9	33.5	12.1	1.5	1.9	38.0	38.4
	2023	649	41.7	12.4	39.7	31.6	11.4	2.5	2.4	42.5	41.1
Chinese Taipei	2019	535	45.6	13.7	45.2	28.4	11.8	0.9	0.0	42.2	48.7
	2023	1067	52.3	10.4	52.1	28.3	8.9	0.3	0.2	48.8	55.4
Czech Republic	2019	664	42.9	11.9	42.0	28.4	15.6	2.0	0.0	39.9	46.2
	2023	996	46.3	11.0	44.8	28.5	12.6	2.9	0.2	46.6	45.9
Denmark	2019	455	40.0	13.2	39.1	32.5	12.9	1.9	0.4	39.9	40.1
	2023	747	48.0	9.7	46.0	25.6	14.5	2.4	1.7	43.9	52.1
England	2019	483	49.1	11.8	48.9	24.7	14.2	0.3	0.0	46.5	51.7
	2023	602	56.5	10.5	55.6	22.5	9.8	0.9	0.7	53.9	58.9
Finland	2019	671	47.0	8.1	46.2	31.0	13.0	1.7	0.0	40.0	54.1
	2023	856	48.2	6.8	47.7	29.7	14.9	0.5	0.4	45.1	51.2
France	2019	604	35.8	10.9	34.4	34.3	16.5	3.5	0.5	35.6	36.1
	2023	679	42.3	14.2	40.0	27.2	13.1	2.9	2.6	41.2	43.5
Georgia	2019	529	31.3	20.5	29.9	30.9	14.4	3.9	0.4	31.1	31.4
	2023	651	34.2	13.8	31.4	29.1	17.5	4.1	4.1	38.0	30.7
Germany	2019	485	36.0	15.8	34.4	28.5	16.8	3.5	1.0	28.9	43.4
	2023	644	41.6	14.4	39.7	25.8	15.5	3.2	1.4	40.0	43.2
Hong Kong SAR	2019	419	50.8	10.0	50.8	27.1	12.0	0.0	0.0	50.4	51.2
	2023	607	56.4	6.5	55.8	27.0	9.7	0.8	0.2	55.0	57.7
Hungary	2019	640	49.1	7.8	48.6	30.1	12.6	0.8	0.0	46.0	51.7
	2023	763	50.9	9.0	49.9	29.7	9.2	1.5	0.6	46.2	55.8
Italy	2019	539	40.6	11.6	39.0	33.0	12.4	4.0	0.1	43.0	38.8
	2023	659	48.9	11.4	46.2	25.6	11.3	3.7	1.7	47.0	50.5
Korea, Rep. of	2019	556	59.9	9.2	59.3	23.5	7.0	1.1	0.0	52.5	66.7
	2023	871	68.8	5.9	68.4	20.9	4.3	0.4	0.1	66.5	70.7
Lithuania	2019	533	47.5	8.4	46.9	32.5	11.0	1.2	0.0	44.3	50.3
	2023	658	57.0	6.3	56.8	26.5	10.0	0.2	0.1	58.3	55.5
Netherlands	2019	470	41.2	9.5	40.4	35.6	12.6	2.0	0.0	37.8	44.1
	2023	507	47.6	9.4	46.6	29.5	12.3	1.2	1.0	43.8	51.6
Norway (5)	2019	558	39.4	14.2	38.5	32.1	13.0	1.7	0.6	36.1	42.4
	2023	783	46.3	10.1	44.5	30.9	10.7	1.6	2.1	45.5	47.2
Portugal	2019	613	34.4	12.0	33.5	36.5	15.6	1.7	0.7	30.0	37.9
	2023	749	50.9	6.4	48.8	28.2	12.5	2.5	1.6	48.2	53.9
Qatar	2019	710	39.3	16.4	37.7	28.6	13.1	2.5	1.7	40.0	38.6
	2023	940	54.8	11.2	52.7	24.7	7.5	1.7	2.1	53.3	56.1
Singapore	2019	843	49.7	11.1	49.5	29.3	9.7	0.5	0.0	49.3	50.1
	2023	1276	57.7	9.6	57.5	24.3	8.3	0.2	0.1	54.9	60.3
Slovak Republic	2019	610	47.0	12.6	46.0	26.8	12.4	2.3	0.0	43.7	49.8
	2023	694	50.4	10.6	50.1	26.4	12.2	0.6	0.0	49.5	51.2
Spain	2019	1363	41.2	13.9	40.6	30.5	13.6	1.3	0.1	39.7	42.4
	2023	1477	46.4	9.8	44.6	30.5	11.2	1.8	2.1	46.5	46.3

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Science: Life Science / Applying

A_SD1_03 SE71069: How an owl gets energy from the Sun - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	51.7	6.9	50.2	28.3	11.7	2.5	0.3	51.0	52.4
	2023	744	51.7	9.8	50.3	25.3	11.8	1.6	1.2	51.0	52.8
United Arab Emirates	2019	3702	58.0	9.8	57.0	22.6	8.8	1.3	0.5	55.8	60.2
	2023	4334	67.4	7.5	65.6	18.0	6.2	0.9	1.9	66.5	68.3
United States	2019	1257	50.9	9.8	49.9	28.7	9.6	1.0	1.1	45.9	55.5
	2023	1256	51.6	8.3	49.6	26.6	11.7	1.0	2.8	47.8	55.0

International Avg. (25)	2019	20349	44.5	11.8	43.6	29.9	12.5	1.8	0.4	42.0	46.8
	2023	25188	50.9	9.8	49.5	26.7	11.1	1.6	1.3	49.2	52.5

Abu Dhabi, UAE	2019	1307	49.1	11.9	47.7	25.0	12.5	2.1	0.8	46.5	51.4
	2023	1073	57.5	11.9	55.4	21.2	7.7	1.3	2.4	56.0	59.1
Dubai, UAE	2019	1040	70.0	5.6	69.5	19.3	4.9	0.6	0.2	69.7	70.3
	2023	1368	74.7	5.3	73.6	14.6	5.1	0.4	1.1	75.0	74.5
Ontario, Canada	2019	540	53.9	13.0	52.8	24.6	7.6	1.3	0.7	51.5	56.2
	2023	607	61.1	8.3	59.7	22.0	7.6	0.9	1.5	57.9	64.6
Quebec, Canada	2019	552	36.9	11.0	36.1	35.6	15.1	2.1	0.2	33.6	39.4
	2023	558	44.8	10.4	43.4	28.5	14.7	2.0	1.0	41.0	49.5

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Science: Life Science / Reasoning

A_SD1_04 SE71051: Why lemurs sit with arms outstretched - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019 2023	1963 1979	33.0 41.1	63.6 54.4	31.3 37.9	4.6 5.5	0.5 2.1	31.6 40.9	34.3 41.2
Chile	2019 2023	585 649	26.1 34.4	66.6 55.8	23.5 29.2	7.9 11.8	2.0 3.2	26.2 37.3	25.9 31.9
Chinese Taipei	2019 2023	535 1064	26.0 32.1	68.1 60.7	24.0 28.7	7.9 10.2	0.0 0.3	27.8 31.5	24.4 32.7
Czech Republic	2019 2023	664 997	40.1 42.3	52.7 49.6	35.2 36.4	12.1 13.1	0.0 0.9	37.2 40.2	43.4 44.8
Denmark	2019 2023	455 746	39.6 49.5	55.6 45.7	36.4 44.9	7.5 6.6	0.4 2.7	41.0 48.4	38.1 50.6
England	2019 2023	483 602	42.6 49.3	54.8 47.3	40.7 45.9	4.5 6.0	0.0 0.8	39.3 44.2	46.0 54.0
Finland	2019 2023	671 856	45.7 45.0	50.4 49.5	42.4 40.4	7.2 9.7	0.0 0.4	43.7 44.7	47.7 45.2
France	2019 2023	604 679	20.3 27.9	64.9 56.2	16.5 21.8	17.9 18.5	0.6 3.5	18.4 27.9	22.5 27.9
Georgia	2019 2023	528 651	44.0 28.8	41.7 44.9	32.8 18.1	25.0 31.2	0.6 5.9	49.1 29.6	39.9 28.1
Germany	2019 2023	485 644	44.4 44.1	47.0 43.7	37.5 34.4	14.6 19.8	1.0 2.0	45.0 44.4	43.7 43.8
Hong Kong SAR	2019 2023	419 607	18.3 39.0	73.5 52.4	16.4 33.4	10.1 13.5	0.0 0.7	18.2 37.9	18.3 40.0
Hungary	2019 2023	640 762	44.5 48.9	53.4 47.7	42.9 45.7	3.7 5.3	0.0 1.2	45.9 48.1	43.4 49.8
Italy	2019 2023	539 659	34.6 30.2	53.3 51.6	28.1 22.3	18.5 23.4	0.1 2.7	36.4 27.3	33.2 32.7
Korea, Rep. of	2019 2023	556 871	48.3 54.6	50.0 42.8	46.8 51.4	3.2 5.7	0.0 0.1	50.8 55.0	46.0 54.3
Lithuania	2019 2023	533 658	46.2 37.5	49.3 58.1	42.4 34.8	8.2 7.0	0.0 0.1	49.3 41.8	43.4 32.6
Netherlands	2019 2023	470 506	28.8 35.5	65.6 59.0	26.5 32.5	7.8 7.5	0.0 1.0	31.6 35.2	26.3 34.7
Norway (5)	2019 2023	558 783	53.1 49.3	44.5 46.5	50.4 45.3	3.9 5.6	1.2 2.6	52.0 52.1	54.1 46.5
Portugal	2019 2023	613 749	37.6 42.1	55.8 48.8	33.6 35.5	10.0 12.8	0.7 2.9	35.8 41.3	39.0 43.0
Qatar	2019 2023	710 938	13.6 25.7	73.6 62.3	11.6 21.6	13.1 13.5	1.7 2.7	12.5 24.7	14.8 26.7
Singapore	2019 2023	843 1276	47.9 56.8	51.4 42.3	47.3 55.6	1.3 2.0	0.0 0.1	49.6 56.0	46.1 57.6
Slovak Republic	2019 2023	610 694	31.4 32.0	60.4 62.2	27.6 29.3	12.0 8.4	0.0 0.1	28.9 30.1	33.6 33.5
Spain	2019 2023	1363 1477	34.9 38.2	58.5 50.3	31.4 31.1	9.9 15.5	0.3 3.0	35.3 36.3	34.6 40.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning

A_SD1_04 SE71051: Why lemurs sit with arms outstretched - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	35.8	59.0	32.9	7.8	0.3	39.7	32.0
	2023	744	51.6	43.5	46.5	8.5	1.5	50.4	53.2
United Arab Emirates	2019	3709	17.8	75.6	16.4	7.5	0.6	19.7	16.0
	2023	4334	26.4	66.2	23.8	7.6	2.5	26.0	26.8
United States	2019	1257	41.0	57.2	39.7	1.9	1.2	39.9	41.9
	2023	1256	38.6	57.2	36.0	3.6	3.2	37.4	39.7

International Avg. (25)	2019	20355	35.8	57.9	32.6	9.1	0.5	36.2	35.5
	2023	25181	40.0	52.0	35.3	10.9	1.8	39.6	40.4

Abu Dhabi, UAE	2019	1308	12.1	81.6	11.3	6.4	0.8	14.7	9.7
	2023	1073	17.7	72.9	15.6	7.9	3.5	19.5	15.8
Dubai, UAE	2019	1040	25.7	71.5	24.8	3.5	0.2	25.9	25.6
	2023	1368	37.2	59.7	35.3	3.7	1.4	35.0	39.3
Ontario, Canada	2019	540	34.6	61.7	32.6	5.1	0.7	31.7	37.4
	2023	607	41.1	54.3	37.8	6.0	1.9	39.3	42.8
Quebec, Canada	2019	552	30.4	67.0	29.2	3.5	0.2	29.7	30.9
	2023	557	37.3	57.3	34.1	6.2	2.5	37.4	37.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SD1_05 SE71039: Type of tree seedling - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	50.2	18.7	17.4	12.6	49.0	1.4	0.9	51.9	48.7
	2023	1980	49.6	17.2	16.8	14.5	47.8	1.0	2.7	50.4	48.9
Chile	2019	585	45.3	22.3	16.5	13.5	43.3	1.5	2.9	48.8	41.9
	2023	649	37.7	23.6	19.4	15.2	35.2	2.6	4.0	44.4	32.4
Chinese Taipei	2019	535	69.9	8.3	15.7	6.0	69.7	0.3	0.1	71.5	68.5
	2023	1066	69.5	8.0	18.6	3.6	68.9	0.2	0.6	71.7	67.6
Czech Republic	2019	664	56.7	16.7	16.8	8.9	55.6	2.0	0.0	59.0	54.2
	2023	997	54.6	19.4	12.9	12.2	53.5	1.0	1.0	58.2	50.3
Denmark	2019	455	57.2	10.2	17.4	14.1	55.7	1.9	0.7	55.5	59.1
	2023	747	49.8	15.8	15.9	16.0	47.3	1.4	3.6	54.7	45.0
England	2019	483	47.8	20.8	14.5	16.3	47.3	1.1	0.0	48.4	47.2
	2023	602	50.6	16.0	14.8	17.7	49.8	0.7	1.0	52.7	49.3
Finland	2019	671	56.9	16.8	15.0	10.8	56.3	1.1	0.0	63.8	50.0
	2023	856	53.1	16.3	17.6	12.0	52.1	0.9	1.0	56.2	50.0
France	2019	603	55.4	12.4	17.6	13.1	53.4	2.6	1.0	58.2	52.3
	2023	679	52.2	15.3	14.1	15.1	48.6	2.3	4.5	53.5	51.0
Georgia	2019	529	49.9	16.0	20.1	12.8	48.7	1.6	0.8	51.4	48.5
	2023	651	39.2	17.8	21.5	15.5	35.4	1.7	8.1	40.7	37.9
Germany	2019	485	74.9	6.3	8.2	9.8	72.7	2.0	1.0	77.3	72.3
	2023	644	63.4	9.4	13.9	11.3	59.9	3.0	2.5	65.7	61.4
Hong Kong SAR	2019	419	61.7	11.7	13.1	13.4	61.6	0.2	0.0	65.6	58.3
	2023	607	58.4	12.9	18.0	10.3	57.8	0.3	0.7	61.0	55.8
Hungary	2019	640	73.6	8.4	10.0	7.9	73.5	0.1	0.0	77.9	69.7
	2023	763	60.0	13.1	13.9	12.2	58.8	0.4	1.6	60.6	59.3
Italy	2019	539	64.4	16.9	9.5	8.6	63.3	1.2	0.5	65.8	63.3
	2023	659	59.6	14.4	14.1	9.7	56.4	1.7	3.8	63.5	56.2
Korea, Rep. of	2019	556	68.4	8.6	17.1	5.6	67.8	0.8	0.0	73.8	63.4
	2023	871	67.5	7.3	16.3	8.7	67.1	0.4	0.1	67.3	67.8
Lithuania	2019	533	62.7	8.4	17.2	11.3	61.9	1.0	0.3	68.4	57.6
	2023	658	61.6	10.4	13.6	14.2	61.5	0.0	0.1	66.9	55.8
Netherlands	2019	470	53.4	14.5	14.6	15.7	51.3	3.9	0.0	59.5	48.2
	2023	507	49.4	16.9	14.7	17.3	47.8	2.2	1.0	49.5	48.6
Norway (5)	2019	558	51.6	9.7	21.3	16.4	50.5	1.0	1.2	54.9	48.5
	2023	783	47.3	9.1	21.2	19.6	44.8	2.4	2.8	50.5	43.9
Portugal	2019	613	42.6	17.2	24.0	15.0	41.7	1.2	0.8	48.8	37.6
	2023	749	43.0	14.1	21.7	16.9	39.7	2.9	4.7	43.3	42.7
Qatar	2019	710	36.9	19.8	28.4	12.4	35.4	1.9	2.2	37.8	35.9
	2023	940	38.4	18.5	24.5	15.4	36.5	1.4	3.7	40.7	36.4
Singapore	2019	843	72.3	11.5	11.2	4.9	72.1	0.4	0.0	74.6	70.0
	2023	1276	69.3	12.2	11.4	7.0	69.2	0.1	0.1	69.6	69.0
Slovak Republic	2019	610	53.1	20.9	14.6	10.8	52.5	1.1	0.1	59.0	48.1
	2023	694	46.6	21.8	19.9	10.9	45.8	0.9	0.7	45.1	47.8
Spain	2019	1364	54.3	13.0	16.5	15.4	53.5	1.2	0.4	59.2	50.4
	2023	1477	43.1	14.3	18.5	20.4	40.3	2.4	4.0	46.0	40.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SD1_05 SE71039: Type of tree seedling - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	62.4	11.0	15.0	11.2	61.6	0.9	0.3	68.6	56.3
	2023	744	54.7	10.8	14.6	18.3	52.8	1.3	2.3	62.7	46.2
United Arab Emirates	2019	3703	42.7	16.9	23.9	15.3	41.9	1.2	0.8	46.6	38.8
	2023	4334	43.2	16.7	22.3	15.1	41.1	1.5	3.4	45.1	41.4
United States	2019	1257	45.4	23.9	18.8	10.8	44.4	0.9	1.2	47.6	43.3
	2023	1256	43.4	19.4	19.2	15.0	41.1	1.4	4.0	45.6	41.5

International Avg. (25)	2019	20350	56.4	14.4	16.6	11.7	55.4	1.3	0.6	59.8	53.3
	2023	25189	52.2	14.8	17.2	13.8	50.4	1.4	2.5	54.6	49.9

Abu Dhabi, UAE	2019	1307	35.0	19.2	26.2	18.3	34.3	1.3	0.8	40.6	29.2
	2023	1073	30.8	20.0	27.1	17.8	28.8	1.5	4.7	34.4	26.9
Dubai, UAE	2019	1040	53.3	16.5	19.2	10.5	52.8	0.5	0.5	56.7	50.1
	2023	1368	55.3	15.6	15.7	12.3	53.9	0.7	1.8	59.5	51.3
Ontario, Canada	2019	540	46.8	20.8	18.9	12.3	45.7	1.2	1.1	53.6	40.2
	2023	607	46.6	18.3	18.7	14.6	44.9	1.2	2.3	45.0	48.0
Quebec, Canada	2019	552	62.1	10.7	14.8	11.7	60.8	1.5	0.5	58.9	64.9
	2023	558	53.1	13.1	18.3	13.9	51.3	0.2	3.1	56.7	50.3

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

Science: Life Science / Applying

A_SD1_06 SE71080: Ecosystem where living things are found - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	48.5	26.4	5.4	18.8	47.6	0.7	1.1	49.3	47.9
	2023	1980	40.5	31.3	8.9	17.1	38.9	0.6	3.2	36.3	44.6
Chile	2019	585	15.1	8.4	7.5	65.4	14.4	1.1	3.2	16.5	13.7
	2023	649	14.7	12.3	8.7	59.2	13.8	1.1	4.9	11.2	17.4
Chinese Taipei	2019	535	71.4	11.7	9.7	7.2	71.3	0.0	0.1	66.5	75.8
	2023	1067	68.7	16.2	9.5	5.4	68.2	0.0	0.7	67.4	69.8
Czech Republic	2019	664	73.7	18.2	2.7	5.1	73.0	1.0	0.0	74.5	72.8
	2023	997	72.0	16.1	5.2	6.3	71.0	0.3	1.1	67.0	77.8
Denmark	2019	455	59.4	25.8	2.5	11.6	58.4	0.8	0.9	54.5	64.8
	2023	747	56.4	26.2	4.3	11.1	53.7	0.9	3.9	52.1	60.7
England	2019	483	43.8	33.9	8.8	13.2	43.6	0.4	0.0	46.9	40.5
	2023	602	45.6	32.6	8.1	13.1	44.9	0.3	1.0	42.4	48.9
Finland	2019	671	33.7	47.5	4.3	14.0	33.4	0.7	0.0	28.8	38.6
	2023	856	30.1	47.7	5.6	15.2	29.5	0.7	1.3	24.5	35.6
France	2019	604	88.6	3.1	2.5	5.6	86.8	0.9	1.1	88.6	88.5
	2023	679	78.7	8.8	5.5	5.7	73.8	0.9	5.3	77.7	79.7
Georgia	2019	529	10.1	22.6	24.0	41.6	9.9	1.0	0.8	9.6	10.6
	2023	651	11.5	18.1	19.7	40.8	10.3	2.8	8.3	11.7	11.4
Germany	2019	485	42.6	42.5	3.7	9.8	41.6	1.1	1.4	42.4	42.8
	2023	644	39.9	35.6	6.6	14.6	37.7	1.8	3.7	41.6	38.4
Hong Kong SAR	2019	419	64.2	2.8	20.3	12.7	64.1	0.2	0.0	60.1	67.8
	2023	607	63.9	7.8	18.8	9.0	63.2	0.4	0.8	61.8	66.0
Hungary	2019	640	37.0	38.6	10.0	14.3	37.0	0.1	0.0	32.8	40.9
	2023	763	39.9	36.5	9.2	13.1	39.0	0.4	1.7	41.1	38.6
Italy	2019	539	23.3	24.8	6.4	43.8	22.7	1.8	0.5	20.5	25.4
	2023	659	21.9	31.1	7.0	35.2	20.6	1.5	4.6	20.0	23.6
Korea, Rep. of	2019	556	76.8	3.0	6.5	13.3	75.7	1.4	0.0	78.2	75.6
	2023	871	67.4	7.6	5.0	20.0	67.3	0.0	0.2	65.5	69.0
Lithuania	2019	533	16.5	54.3	6.2	22.4	16.3	0.5	0.3	15.1	17.7
	2023	658	17.7	51.7	7.3	22.8	17.5	0.5	0.1	20.3	14.8
Netherlands	2019	470	25.6	29.3	15.6	28.7	25.3	1.2	0.0	23.8	27.0
	2023	507	25.8	30.8	14.0	28.2	25.3	0.6	1.1	22.4	29.2
Norway (5)	2019	558	75.5	9.7	3.7	10.6	74.0	0.7	1.3	77.2	73.9
	2023	783	71.6	11.1	3.7	12.5	68.9	0.4	3.5	71.3	71.9
Portugal	2019	613	74.8	3.0	3.4	18.3	73.4	1.1	0.8	73.1	76.2
	2023	749	75.4	3.6	2.9	16.6	70.7	0.2	6.1	72.5	78.5
Qatar	2019	710	42.8	9.0	17.8	28.5	41.5	0.9	2.2	40.1	45.5
	2023	940	40.0	14.7	16.4	25.7	38.0	0.8	4.4	41.5	38.7
Singapore	2019	843	60.6	12.0	6.3	20.9	60.3	0.5	0.0	53.4	68.0
	2023	1276	53.7	13.4	12.4	20.4	53.6	0.1	0.1	53.2	54.2
Slovak Republic	2019	610	60.2	24.8	4.0	10.8	59.8	0.5	0.1	58.7	61.4
	2023	694	60.1	22.1	8.4	8.9	59.3	0.3	1.0	56.4	63.2
Spain	2019	1364	12.8	14.2	7.0	65.5	12.7	0.2	0.4	9.9	15.1
	2023	1477	15.8	11.4	7.5	60.6	14.9	0.5	5.2	14.5	17.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SD1_06 SE71080: Ecosystem where living things are found - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	26.4	32.4	16.3	24.5	26.2	0.4	0.3	26.6	26.1
	2023	744	29.2	30.8	15.3	22.7	28.4	0.4	2.4	23.9	34.2
United Arab Emirates	2019	3702	36.2	8.7	23.5	30.4	35.5	1.1	0.8	37.0	35.5
	2023	4333	35.6	11.0	24.4	25.9	33.9	0.5	4.3	32.7	38.4
United States	2019	1257	64.4	20.8	4.3	9.6	62.9	1.0	1.3	65.5	63.6
	2023	1256	53.9	25.7	7.2	10.8	50.9	0.4	5.0	54.8	53.0

International Avg. (25)	2019	20350	47.4	21.1	8.9	21.9	46.7	0.8	0.7	46.0	48.6
	2023	25189	45.2	22.2	9.7	20.8	43.7	0.6	3.0	43.4	47.0

Abu Dhabi, UAE	2019	1306	35.9	11.7	19.9	30.9	35.1	1.5	0.8	39.2	32.7
	2023	1072	32.4	15.2	20.9	27.5	30.5	0.2	5.6	31.3	33.6
Dubai, UAE	2019	1040	46.0	7.8	14.7	31.0	45.5	0.4	0.5	47.1	44.9
	2023	1368	44.0	11.7	16.7	26.3	43.0	0.1	2.2	39.8	48.0
Ontario, Canada	2019	540	57.0	26.0	4.8	11.1	55.5	1.0	1.5	56.8	57.2
	2023	607	48.6	29.6	8.9	10.9	46.8	0.8	2.9	42.4	54.6
Quebec, Canada	2019	552	31.8	26.2	5.9	35.4	31.4	0.6	0.5	34.5	30.0
	2023	558	21.4	37.1	8.9	29.4	20.6	0.8	3.2	18.9	23.6

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

Science: Physical Science / Knowing

A_SD1_07 SE71137: Why a flashlight needs batteries to light - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	68.2	30.3	64.9	3.6	1.2	61.8	74.1
	2023	1980	63.4	34.1	59.1	3.4	3.5	59.5	67.5
Chile	2019	585	56.5	40.1	52.2	4.4	3.4	53.6	59.5
	2023	649	18.2	71.4	15.9	7.4	5.3	21.9	15.3
Chinese Taipei	2019	535	70.1	28.6	67.1	4.3	0.1	69.1	71.0
	2023	1065	74.3	24.2	70.0	5.0	0.8	73.6	75.0
Czech Republic	2019	664	68.7	29.9	65.5	4.4	0.2	59.8	78.4
	2023	997	69.6	27.6	63.3	7.9	1.2	63.8	76.2
Denmark	2019	455	71.3	27.8	69.2	2.2	0.9	73.4	69.1
	2023	747	71.9	25.2	64.6	5.7	4.5	66.2	77.5
England	2019	483	63.3	35.5	61.0	3.5	0.0	58.0	68.6
	2023	602	74.8	24.1	71.6	3.1	1.1	66.1	82.2
Finland	2019	671	79.4	19.9	76.8	3.2	0.0	78.3	80.5
	2023	856	75.2	23.3	70.6	4.8	1.3	71.7	78.8
France	2019	604	66.9	29.6	59.8	9.2	1.3	59.1	75.4
	2023	679	59.4	34.2	50.1	9.7	6.0	58.6	60.2
Georgia	2019	529	47.0	47.9	42.6	8.7	0.8	39.7	53.9
	2023	651	42.8	43.2	32.3	14.8	9.7	38.1	47.0
Germany	2019	485	77.2	21.8	74.0	2.8	1.4	72.6	81.9
	2023	644	70.1	25.5	60.0	9.7	4.8	71.6	68.8
Hong Kong SAR	2019	419	46.2	50.9	43.8	5.2	0.0	44.4	47.8
	2023	607	71.0	26.5	65.0	7.8	0.8	72.6	69.5
Hungary	2019	640	60.9	38.4	60.0	1.6	0.0	52.7	68.3
	2023	762	57.3	40.5	54.2	3.5	1.8	48.7	65.9
Italy	2019	539	57.9	39.8	54.8	4.9	0.5	50.8	63.5
	2023	659	61.0	33.6	52.5	8.3	5.6	58.5	63.1
Korea, Rep. of	2019	556	75.1	24.2	72.9	2.9	0.0	70.2	79.5
	2023	871	68.3	30.7	66.1	2.9	0.2	63.6	72.3
Lithuania	2019	533	72.1	26.9	69.2	3.6	0.3	66.2	77.4
	2023	658	70.0	29.0	67.8	2.8	0.4	64.5	76.0
Netherlands	2019	470	72.8	26.3	70.3	3.4	0.0	73.9	71.8
	2023	507	71.7	27.1	68.7	3.1	1.1	67.5	76.2
Norway (5)	2019	558	74.3	24.9	72.2	1.6	1.3	73.8	74.8
	2023	783	71.1	26.3	64.6	5.5	3.7	65.7	76.5
Portugal	2019	613	65.4	33.1	62.5	2.8	1.6	63.8	66.6
	2023	749	66.3	29.7	58.5	5.6	6.2	61.6	71.4
Qatar	2019	710	42.5	52.0	38.4	7.4	2.2	42.8	42.2
	2023	939	51.4	42.7	45.2	7.4	4.7	46.4	56.0
Singapore	2019	843	72.0	27.6	71.2	1.2	0.0	66.9	77.3
	2023	1276	76.5	23.2	75.5	1.1	0.1	74.4	78.5
Slovak Republic	2019	610	53.8	44.4	51.6	3.9	0.1	48.8	58.0
	2023	694	63.8	33.8	59.6	5.5	1.0	56.8	69.5
Spain	2019	1364	63.1	35.7	61.0	2.9	0.4	61.4	64.5
	2023	1477	53.4	41.1	47.0	6.2	5.7	52.0	54.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SD1_07 SE71137: Why a flashlight needs batteries to light - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	75.5	23.6	72.6	3.5	0.3	72.5	78.4
	2023	744	71.3	26.3	65.5	5.6	2.6	66.7	76.3
United Arab Emirates	2019	3706	48.8	48.4	46.1	4.6	0.9	47.0	50.5
	2023	4334	54.8	41.1	49.8	4.6	4.5	51.7	57.8
United States	2019	1257	72.7	26.7	71.0	1.0	1.3	70.1	74.9
	2023	1256	63.5	33.8	58.9	2.0	5.3	62.7	64.3

International Avg. (25)	2019	20354	64.9	33.4	62.0	3.9	0.7	61.2	68.3
	2023	25186	63.6	32.7	58.3	5.7	3.3	60.2	67.1

Abu Dhabi, UAE	2019	1308	38.0	58.3	35.8	4.9	1.0	38.7	37.3
	2023	1073	40.6	53.0	36.3	5.0	5.7	40.3	40.9
Dubai, UAE	2019	1040	61.9	37.3	60.6	1.5	0.6	59.7	64.1
	2023	1368	68.6	30.2	65.9	1.6	2.3	65.3	71.7
Ontario, Canada	2019	540	69.9	28.4	65.9	3.9	1.8	62.2	77.8
	2023	607	63.9	33.4	59.1	4.4	3.1	60.5	67.2
Quebec, Canada	2019	552	65.6	33.5	64.0	2.0	0.5	58.5	70.9
	2023	558	57.1	39.9	53.1	3.0	4.0	50.8	63.7

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

Science: Physical Science / Knowing

A_SD1_08 SE71103: Set of carts that will move apart - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	57.6	22.4	55.7	11.1	7.5	2.1	1.3	52.4	62.5
	2023	1980	47.8	27.3	44.6	12.2	9.4	2.7	3.8	42.8	52.8
Chile	2019	585	40.9	27.9	38.1	16.0	11.1	2.9	4.0	37.7	44.0
	2023	649	37.9	25.6	34.3	17.6	13.1	3.2	6.2	38.7	37.3
Chinese Taipei	2019	535	91.5	4.4	91.2	2.4	1.6	0.2	0.1	92.1	91.0
	2023	1067	86.8	8.0	85.3	3.1	1.8	0.9	0.7	85.6	87.9
Czech Republic	2019	664	56.4	28.4	55.9	8.5	6.3	0.6	0.3	50.4	63.0
	2023	997	54.2	25.3	52.2	10.2	8.6	2.2	1.5	52.2	56.6
Denmark	2019	455	54.4	22.7	52.0	10.3	10.6	3.3	1.0	54.6	54.1
	2023	747	50.9	20.9	46.7	14.0	10.1	3.3	5.0	50.4	51.4
England	2019	483	57.9	23.9	56.7	11.1	6.4	1.8	0.2	58.2	57.5
	2023	602	52.4	27.1	50.7	10.7	8.3	1.7	1.4	49.3	55.0
Finland	2019	671	70.3	18.0	69.0	5.5	5.7	1.8	0.0	68.5	72.1
	2023	856	59.8	23.2	58.0	11.0	4.7	1.5	1.5	60.3	59.3
France	2019	604	40.8	24.3	37.6	16.8	13.4	5.4	2.4	40.2	41.5
	2023	679	38.3	22.5	33.0	18.5	12.2	7.0	6.8	34.2	42.5
Georgia	2019	529	36.4	21.8	33.7	20.5	16.7	5.5	1.8	35.4	37.2
	2023	651	36.6	19.2	29.6	18.3	13.7	6.5	12.7	33.7	39.3
Germany	2019	485	64.0	21.0	60.6	6.7	6.5	3.6	1.6	60.3	67.8
	2023	644	54.5	23.2	49.3	10.3	7.7	3.8	5.7	55.9	53.3
Hong Kong SAR	2019	419	70.8	15.5	70.4	9.5	4.1	0.5	0.0	66.5	74.6
	2023	607	67.1	17.0	65.5	9.3	5.9	1.5	0.8	61.2	72.8
Hungary	2019	640	66.3	15.5	65.8	10.0	8.0	0.7	0.0	69.8	63.1
	2023	763	56.6	17.0	54.1	14.3	10.3	1.6	2.8	52.7	60.6
Italy	2019	539	45.5	28.9	43.7	11.9	11.6	3.3	0.7	44.3	46.5
	2023	659	40.7	26.0	36.2	15.7	11.0	4.4	6.8	34.9	45.8
Korea, Rep. of	2019	556	88.7	8.1	87.9	1.5	1.6	0.6	0.2	87.0	90.2
	2023	871	87.7	8.9	87.2	1.6	1.7	0.4	0.2	87.0	88.3
Lithuania	2019	533	69.7	17.1	68.6	6.6	6.0	1.2	0.4	71.5	68.1
	2023	658	67.7	20.2	66.5	6.7	4.8	1.2	0.6	66.3	69.3
Netherlands	2019	470	47.3	37.7	45.9	8.4	5.0	2.5	0.5	47.5	47.2
	2023	507	44.0	31.3	42.4	13.2	9.6	2.4	1.1	39.2	49.2
Norway (5)	2019	558	63.6	23.7	62.3	6.5	5.4	0.7	1.4	62.5	64.6
	2023	783	51.8	26.0	48.3	10.7	8.3	2.7	4.0	56.0	47.5
Portugal	2019	613	51.2	21.0	49.3	15.3	10.7	1.9	1.9	50.7	51.6
	2023	749	45.1	24.1	40.8	13.5	12.0	2.6	6.9	40.8	49.6
Qatar	2019	710	45.1	29.7	43.0	12.1	10.5	2.1	2.7	46.0	44.3
	2023	940	51.5	28.3	47.6	10.2	6.4	2.4	5.2	49.3	53.4
Singapore	2019	843	93.0	5.6	92.5	0.7	0.6	0.4	0.1	93.1	93.0
	2023	1276	88.9	8.5	88.7	2.1	0.5	0.1	0.1	88.3	89.4
Slovak Republic	2019	610	70.2	20.0	69.6	4.8	4.8	0.7	0.1	67.2	72.8
	2023	694	59.5	23.2	57.4	9.6	6.3	2.2	1.3	58.8	60.1
Spain	2019	1363	47.7	26.2	46.2	14.2	10.3	1.9	1.2	47.1	48.1
	2023	1477	46.1	21.3	40.9	15.6	10.9	4.9	6.4	44.9	47.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SD1_08 SE71103: Set of carts that will move apart - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	63.3	23.2	61.8	6.2	6.5	1.8	0.5	66.0	60.7
	2023	744	61.8	18.6	58.6	10.5	7.1	2.2	3.0	60.9	62.5
United Arab Emirates	2019	3706	54.9	26.5	53.7	10.2	7.3	1.0	1.2	54.5	55.2
	2023	4334	53.4	25.6	49.8	10.2	7.6	1.5	5.3	51.6	55.2
United States	2019	1257	60.9	19.9	58.9	9.8	8.1	1.5	1.8	57.8	63.6
	2023	1256	51.4	26.1	47.3	10.6	8.0	2.2	5.7	48.8	53.8

International Avg. (25)	2019	20353	60.3	21.3	58.8	9.5	7.4	1.9	1.0	59.2	61.4
	2023	25190	55.7	21.8	52.6	11.2	8.0	2.6	3.8	53.7	57.6

Abu Dhabi, UAE	2019	1307	42.7	33.3	41.5	12.5	9.9	1.3	1.6	43.9	41.3
	2023	1073	42.4	28.8	39.1	15.4	9.0	1.5	6.1	40.8	44.0
Dubai, UAE	2019	1040	69.6	19.0	69.0	5.9	5.3	0.0	0.8	68.5	70.7
	2023	1368	64.0	23.5	61.7	6.0	5.2	1.0	2.5	61.3	66.5
Ontario, Canada	2019	540	57.2	22.2	55.3	11.3	8.0	1.5	1.8	49.3	64.8
	2023	607	46.8	29.6	44.1	11.5	9.0	2.7	3.2	43.2	50.5
Quebec, Canada	2019	552	54.9	22.1	52.7	12.7	8.5	3.4	0.6	52.2	57.3
	2023	558	44.7	26.1	41.4	15.2	9.8	3.0	4.5	39.8	49.8

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

Science: Physical Science / Reasoning

A_SD1_09 SE71106: Conclusions supported by Adam's results (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	44.4	53.3	42.6	2.5	1.5	42.6	46.2
	2023	1980	36.4	54.9	31.5	8.4	5.2	39.2	33.7
Chile	2019	585	27.3	67.5	25.3	3.0	4.2	29.4	25.2
	2023	649	20.2	69.8	17.6	5.8	6.8	21.6	19.1
Chinese Taipei	2019	535	41.8	58.0	41.7	0.2	0.1	39.7	43.7
	2023	1067	26.7	72.4	26.3	0.3	1.0	27.7	25.8
Czech Republic	2019	664	39.7	58.3	38.4	3.0	0.3	39.4	40.0
	2023	997	39.3	56.1	36.3	5.8	1.8	40.5	37.8
Denmark	2019	455	43.0	53.8	40.6	4.2	1.4	44.3	41.6
	2023	747	39.6	53.7	35.2	5.6	5.5	42.4	36.9
England	2019	483	48.3	50.6	47.2	2.0	0.2	50.4	46.1
	2023	602	50.3	46.9	47.5	3.9	1.8	53.2	47.0
Finland	2019	671	48.9	49.9	47.8	2.3	0.0	51.5	46.4
	2023	856	41.4	55.6	39.4	3.4	1.6	43.0	39.9
France	2019	604	39.7	54.9	36.2	6.5	2.4	42.1	37.0
	2023	679	34.0	36.9	19.0	35.0	9.1	30.5	37.6
Georgia	2019	529	22.7	67.7	19.8	10.6	1.9	21.5	23.7
	2023	651	24.4	44.8	14.4	26.1	14.6	26.7	22.2
Germany	2019	485	47.3	49.6	44.5	3.9	2.0	45.7	48.8
	2023	644	34.4	56.8	29.8	5.6	7.9	34.7	34.0
Hong Kong SAR	2019	419	35.3	64.1	34.9	1.0	0.0	35.5	35.0
	2023	607	25.0	73.5	24.4	1.1	1.0	26.7	23.2
Hungary	2019	640	41.6	57.0	40.6	2.4	0.0	39.5	43.5
	2023	763	31.3	64.2	29.3	3.3	3.1	31.3	31.4
Italy	2019	539	33.7	61.5	31.3	6.4	0.9	36.2	31.9
	2023	659	29.2	50.2	20.7	20.6	8.6	31.8	27.0
Korea, Rep. of	2019	556	53.2	46.2	52.5	1.0	0.2	54.6	51.9
	2023	871	51.5	47.6	50.6	1.5	0.4	50.9	52.1
Lithuania	2019	533	44.0	54.8	43.1	1.6	0.4	44.8	43.3
	2023	658	40.1	58.6	39.3	1.5	0.6	40.6	39.7
Netherlands	2019	470	42.8	55.6	41.6	2.2	0.6	45.6	40.5
	2023	507	39.3	57.2	37.0	4.4	1.4	41.7	36.9
Norway (5)	2019	558	44.1	53.7	42.3	2.6	1.4	44.8	43.4
	2023	783	37.5	56.6	34.0	5.1	4.3	41.6	33.4
Portugal	2019	613	35.2	61.8	33.5	2.2	2.5	33.7	36.4
	2023	749	34.5	57.1	30.2	3.7	9.0	32.7	36.4
Qatar	2019	710	29.0	67.2	27.4	2.3	3.0	29.1	28.8
	2023	940	29.4	62.6	26.1	4.6	6.7	29.1	29.6
Singapore	2019	843	64.4	35.4	64.1	0.3	0.1	65.3	63.5
	2023	1276	61.0	38.8	60.7	0.5	0.1	61.7	60.4
Slovak Republic	2019	610	38.5	58.7	36.8	4.1	0.3	38.4	38.7
	2023	694	28.6	65.8	26.4	5.5	2.4	25.5	31.1
Spain	2019	1364	44.3	54.1	43.1	0.8	1.9	43.8	44.7
	2023	1477	37.5	52.6	31.6	6.5	9.4	37.9	37.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Reasoning

A_SD1_09 SE71106: Conclusions supported by Adam's results (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	41.5	56.7	40.3	2.5	0.5	42.2	40.8
	2023	744	41.7	52.8	37.8	5.8	3.6	41.0	42.4
United Arab Emirates	2019	3701	37.4	60.5	36.2	1.9	1.4	39.6	35.5
	2023	4334	34.5	59.0	31.0	3.7	6.3	34.2	34.7
United States	2019	1257	52.5	45.9	50.7	1.2	2.1	53.5	51.6
	2023	1256	44.1	51.0	40.3	1.8	6.9	42.6	45.4

International Avg. (25)	2019	20349	41.6	55.9	40.1	2.8	1.2	42.1	41.1
	2023	25190	36.5	55.8	32.6	6.8	4.8	37.2	35.8

Abu Dhabi, UAE	2019	1307	28.8	68.7	27.8	1.7	1.8	31.5	26.3
	2023	1073	30.9	60.4	27.0	5.5	7.1	31.2	30.6
Dubai, UAE	2019	1040	53.9	45.3	53.0	0.8	0.8	56.5	51.4
	2023	1368	46.1	51.0	43.6	2.1	3.2	44.3	47.8
Ontario, Canada	2019	540	45.2	52.4	43.2	2.1	2.3	42.5	47.9
	2023	607	36.6	56.7	32.7	5.8	4.8	43.9	29.0
Quebec, Canada	2019	552	46.5	51.6	45.0	2.8	0.6	48.2	45.3
	2023	558	33.9	51.7	26.5	15.9	5.9	33.7	34.8

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

Science: Physical Science / Knowing

A_SD1_10 SE71100: Completing Julie's circuit - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	66.8	64.9	26.5	3.0	2.8	1.0	1.7	69.1	64.7
	2023	1980	71.1	65.3	22.0	2.2	2.4	0.8	7.2	71.2	71.0
Chile	2019	585	49.3	45.8	34.1	10.1	2.9	1.9	5.2	52.1	46.6
	2023	649	62.7	56.0	24.8	4.9	3.7	1.2	9.4	64.2	61.5
Chinese Taipei	2019	535	94.2	93.4	4.8	0.6	0.3	0.5	0.3	92.7	95.6
	2023	1067	97.6	96.1	1.3	0.7	0.3	0.0	1.5	98.1	97.2
Czech Republic	2019	664	77.8	76.8	15.9	2.4	3.5	0.9	0.4	77.6	78.0
	2023	997	80.5	76.9	13.9	1.7	3.1	1.1	3.4	78.4	83.0
Denmark	2019	455	78.5	76.2	14.1	2.3	4.6	1.2	1.7	78.7	78.2
	2023	747	76.2	69.1	15.2	2.2	4.2	1.6	7.6	77.9	74.4
England	2019	483	77.2	76.3	18.7	2.1	1.7	0.8	0.4	82.2	72.0
	2023	602	82.4	79.5	13.6	1.2	2.1	1.1	2.4	78.5	86.2
Finland	2019	671	75.3	74.4	21.0	2.4	1.0	1.2	0.0	74.1	76.5
	2023	856	74.8	72.5	18.5	4.2	1.7	0.9	2.1	73.7	75.8
France	2019	604	64.1	61.2	27.9	3.8	2.7	1.4	3.1	67.7	59.9
	2023	679	62.4	52.2	23.0	3.7	4.9	1.7	14.5	58.8	65.9
Georgia	2019	529	47.7	45.1	36.9	7.1	5.6	2.3	3.1	43.0	52.0
	2023	651	66.7	52.1	17.2	4.5	4.3	2.1	19.7	64.7	68.7
Germany	2019	485	85.0	81.4	10.2	1.5	2.6	1.1	3.0	83.4	86.6
	2023	644	81.8	72.7	12.9	1.8	1.5	1.1	10.1	79.6	83.8
Hong Kong SAR	2019	419	78.0	77.2	18.6	2.0	1.1	0.4	0.7	76.3	79.6
	2023	607	79.7	77.9	14.7	3.2	1.9	0.4	2.0	79.2	80.3
Hungary	2019	640	60.0	59.1	30.5	4.1	4.8	1.4	0.2	53.2	66.1
	2023	763	59.1	55.8	29.9	4.6	4.2	0.9	4.7	60.2	57.9
Italy	2019	539	61.7	59.6	30.3	5.4	1.2	1.9	1.5	64.2	59.7
	2023	659	60.2	50.5	28.0	3.7	1.7	1.7	14.5	62.7	58.2
Korea, Rep. of	2019	556	79.7	79.0	15.5	2.0	2.7	0.5	0.2	75.2	83.7
	2023	871	84.9	84.3	11.6	1.8	1.6	0.3	0.5	82.0	87.5
Lithuania	2019	533	81.4	80.4	13.0	1.3	4.0	0.7	0.6	80.5	82.3
	2023	658	80.3	79.0	12.0	2.8	4.6	0.4	1.3	75.8	85.3
Netherlands	2019	470	70.6	69.1	21.6	2.5	4.7	1.4	0.7	76.6	65.5
	2023	507	66.5	64.3	26.0	2.8	3.7	1.3	2.0	67.7	65.6
Norway (5)	2019	558	78.3	76.2	19.4	1.7	0.1	0.8	1.8	78.3	78.3
	2023	783	73.4	68.0	20.8	2.6	1.2	1.7	5.6	76.6	70.3
Portugal	2019	613	65.7	62.6	25.7	4.4	2.5	2.1	2.7	69.0	63.2
	2023	749	72.1	63.4	19.0	2.7	2.8	0.6	11.5	73.0	71.2
Qatar	2019	710	64.9	61.5	22.9	7.0	3.4	1.0	4.2	65.2	64.5
	2023	940	78.7	70.2	11.4	5.2	2.3	1.7	9.1	80.8	76.9
Singapore	2019	843	89.5	89.1	8.5	0.7	1.3	0.3	0.1	91.4	87.5
	2023	1276	91.0	90.5	7.5	0.8	0.7	0.3	0.3	92.1	89.9
Slovak Republic	2019	610	75.1	74.3	19.2	2.0	3.5	0.5	0.6	75.6	74.6
	2023	694	79.2	75.3	14.5	2.7	2.6	1.2	3.7	79.9	78.7
Spain	2019	1364	64.0	62.5	30.2	3.6	1.4	0.4	2.0	63.5	64.4
	2023	1477	67.8	58.1	21.4	4.4	1.7	1.1	13.3	69.2	66.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SD1_10 SE71100: Completing Julie's circuit - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	75.7	73.6	12.8	4.3	6.6	1.4	1.4	78.8	72.7
	2023	744	78.6	73.4	10.9	3.3	5.8	1.9	4.8	79.8	77.2
United Arab Emirates	2019	3705	68.4	66.1	21.9	5.0	3.6	1.6	1.9	67.5	69.4
	2023	4334	77.5	70.2	14.0	3.2	3.2	0.5	9.0	78.8	76.2
United States	2019	1257	74.3	71.6	20.3	2.9	1.6	1.3	2.3	75.2	73.4
	2023	1256	76.1	69.0	17.1	2.0	2.5	0.9	8.5	77.2	75.1

International Avg. (25)	2019	20353	72.1	70.3	20.8	3.4	2.8	1.1	1.6	72.5	71.8
	2023	25190	75.2	69.7	16.8	2.9	2.7	1.1	6.7	75.2	75.4

Abu Dhabi, UAE	2019	1307	66.2	63.8	21.3	7.0	4.3	1.5	2.1	65.8	66.6
	2023	1073	70.7	62.8	16.6	4.3	5.1	0.9	10.3	73.3	68.2
Dubai, UAE	2019	1040	81.4	79.8	13.6	1.6	3.0	1.0	1.0	81.0	81.8
	2023	1368	86.3	81.6	9.3	1.7	2.0	0.4	5.1	87.8	84.9
Ontario, Canada	2019	540	62.5	60.1	30.1	3.4	2.6	1.4	2.5	64.7	60.3
	2023	607	69.0	63.7	25.3	1.3	1.9	1.2	6.6	70.8	67.1
Quebec, Canada	2019	552	69.0	68.2	24.7	3.0	3.0	0.6	0.6	70.1	68.3
	2023	558	72.1	65.6	19.8	2.9	2.7	0.1	8.9	72.4	72.1

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

Science: Earth Science / Reasoning

A_SD1_11 SE71921: Place it is likely to rain - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	38.5	4.6	4.2	37.2	50.7	1.3	1.9	34.6	42.0
	2023	1980	38.8	6.6	6.4	35.3	42.6	1.3	7.8	35.3	41.9
Chinese Taipei	2019	535	28.0	11.2	3.9	27.9	56.6	0.0	0.3	24.7	31.0
	2023	1067	31.1	10.2	5.0	30.5	52.5	0.3	1.5	24.7	36.7
Czech Republic	2019	664	32.9	14.0	6.2	32.1	45.2	2.0	0.4	26.1	40.3
	2023	997	36.3	13.4	9.4	34.4	37.6	1.4	3.8	36.3	36.4
Denmark	2019	455	30.0	4.8	4.9	29.2	58.4	1.0	1.7	22.4	38.3
	2023	747	30.1	10.1	6.3	26.7	45.6	2.6	8.7	26.1	34.2
England	2019	483	17.6	5.0	4.4	17.1	70.8	2.3	0.4	17.5	17.7
	2023	602	25.5	6.0	3.4	24.5	62.2	1.2	2.9	23.6	27.0
Finland	2019	671	63.2	2.9	1.8	62.4	31.5	1.3	0.0	57.9	68.7
	2023	856	63.5	4.0	5.8	61.5	25.6	0.7	2.4	58.1	68.9
France	2019	603	23.4	6.3	5.2	21.7	59.6	4.1	3.2	19.0	28.5
	2023	679	30.3	10.8	8.8	25.1	38.1	2.2	15.0	25.2	35.5
Georgia	2019	529	21.6	12.4	12.1	19.7	46.9	5.7	3.2	22.8	20.5
	2023	651	21.5	15.6	10.7	16.4	33.6	2.6	21.1	23.0	20.1
Germany	2019	485	29.9	6.5	2.8	28.6	57.7	1.3	3.0	23.3	36.6
	2023	644	36.8	5.1	9.1	31.8	40.4	3.1	10.6	36.9	36.6
Hong Kong SAR	2019	419	63.0	2.6	3.4	62.1	30.5	0.6	0.8	62.1	63.8
	2023	607	71.9	3.0	5.1	70.1	19.3	0.6	2.0	69.1	74.7
Hungary	2019	640	33.3	4.7	5.4	33.0	56.0	0.7	0.2	29.2	37.0
	2023	763	29.8	7.4	8.2	28.1	50.6	0.5	5.1	24.0	35.6
Italy	2019	539	29.8	8.4	4.1	28.0	53.3	4.5	1.7	28.2	31.2
	2023	659	26.6	8.9	6.6	22.3	46.2	1.1	15.0	22.0	30.4
Korea, Rep. of	2019	556	39.5	6.5	4.4	39.3	49.2	0.4	0.2	35.8	42.9
	2023	871	43.5	7.7	5.0	43.3	43.5	0.0	0.5	37.9	48.4
Lithuania	2019	533	35.2	6.0	6.2	34.7	51.7	0.8	0.6	31.1	39.0
	2023	658	37.1	8.5	4.9	36.5	48.4	0.2	1.4	34.2	40.4
Netherlands	2019	470	33.8	5.4	4.0	33.0	55.2	1.4	1.1	29.7	37.3
	2023	507	36.0	5.3	6.0	34.5	50.2	1.7	2.3	33.8	38.8
Norway (5)	2019	558	47.8	5.0	1.6	46.2	43.8	1.5	1.9	49.5	46.3
	2023	783	49.8	4.4	7.1	45.8	34.6	1.5	6.6	47.3	52.3
Qatar	2019	710	35.4	10.2	8.7	33.2	41.8	1.7	4.4	32.8	37.8
	2023	940	39.1	10.1	8.4	34.5	35.3	1.6	10.1	35.9	41.9
Singapore	2019	843	43.5	5.1	4.5	43.3	46.5	0.6	0.1	41.1	46.0
	2023	1276	45.9	4.0	4.7	45.7	45.2	0.0	0.3	42.5	49.2
Slovak Republic	2019	610	35.7	6.2	5.3	35.2	51.7	1.0	0.6	33.5	37.6
	2023	694	33.4	8.8	9.5	31.6	44.7	1.5	3.9	33.7	33.1
Spain	2019	1364	19.0	2.7	5.5	18.4	70.0	1.3	2.1	19.1	18.9
	2023	1477	25.6	5.2	5.4	21.6	52.2	1.9	13.7	24.0	27.1
Sweden	2019	562	48.5	3.6	6.4	47.0	39.9	1.6	1.5	49.9	47.2
	2023	744	50.4	6.1	6.8	47.1	33.4	0.9	5.6	45.1	56.3
United Arab Emirates	2019	3705	39.0	8.6	7.5	37.5	42.5	1.8	2.1	38.0	40.2
	2023	4334	39.3	8.1	6.9	35.2	39.3	1.2	9.3	38.8	39.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Reasoning

A_SD1_11 SE71921: Place it is likely to rain - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
United States	2019	1257	55.1	4.6	2.7	53.2	36.1	0.9	2.6	52.3	57.6
	2023	1256	53.3	5.7	5.9	48.1	30.5	0.6	9.1	51.9	54.6
International Avg. (23)	2019	19154	36.7	6.4	5.0	35.6	49.8	1.6	1.5	33.9	39.4
	2023	23792	38.9	7.6	6.8	36.1	41.4	1.2	6.9	36.1	41.7
Abu Dhabi, UAE	2019	1307	38.8	12.5	9.4	37.1	36.4	2.4	2.2	39.3	38.7
	2023	1073	38.2	12.2	10.2	33.5	31.7	1.6	10.9	40.1	36.3
Dubai, UAE	2019	1040	38.9	4.3	4.0	38.2	51.7	0.7	1.1	34.6	43.1
	2023	1368	39.5	4.5	2.4	37.0	49.8	0.8	5.5	37.4	41.3
Ontario, Canada	2019	540	37.4	5.3	4.9	35.9	50.0	1.1	2.7	36.9	37.8
	2023	607	41.5	5.8	6.2	38.0	41.7	0.9	7.4	39.7	43.1
Quebec, Canada	2019	552	42.8	3.6	4.2	42.0	48.5	1.0	0.7	35.8	48.3
	2023	558	38.5	6.3	7.8	34.6	41.2	1.2	9.0	31.9	44.0

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

Science: Earth Science / Applying

A_SD1_12 SE71220: Tropical plant fossil in cold environment - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	50.8	48.9	18.8	12.9	15.7	1.5	2.3	50.0	51.4
	2023	1980	55.3	49.0	18.9	9.3	11.5	2.6	8.7	55.3	55.0
Chile	2019	585	35.5	32.3	22.6	15.3	21.0	2.5	6.3	29.9	40.8
	2023	649	44.5	37.6	21.3	10.2	15.5	2.7	12.7	42.3	46.2
Chinese Taipei	2019	535	42.5	42.1	15.2	19.7	22.1	0.5	0.3	40.1	44.6
	2023	1067	42.9	42.1	15.1	22.8	18.2	0.3	1.5	40.7	44.9
Czech Republic	2019	664	57.1	56.0	10.9	12.6	18.6	1.0	0.9	50.2	64.8
	2023	997	56.8	51.7	10.2	12.1	17.0	4.5	4.4	58.1	55.3
Denmark	2019	455	58.3	55.7	11.1	9.7	19.1	2.4	2.0	54.3	62.6
	2023	747	58.5	50.9	12.8	8.8	14.7	2.7	10.2	57.4	59.5
England	2019	483	48.4	47.4	19.0	14.3	17.1	1.8	0.4	48.1	48.7
	2023	602	53.7	50.7	14.4	15.9	13.4	2.1	3.5	50.0	57.7
Finland	2019	671	56.9	56.0	8.4	7.4	26.6	1.6	0.0	54.7	59.1
	2023	856	52.2	49.9	13.2	8.5	24.0	2.1	2.4	46.3	58.1
France	2019	603	47.0	43.4	14.8	13.3	20.8	4.3	3.5	44.9	49.4
	2023	679	52.2	41.7	17.0	10.5	10.7	3.4	16.6	47.2	57.4
Georgia	2019	529	44.0	39.9	21.6	12.2	16.8	5.0	4.5	45.6	42.7
	2023	651	50.1	36.7	15.3	11.7	9.6	4.1	22.6	46.2	54.0
Germany	2019	485	50.9	47.6	12.9	11.3	21.6	2.6	4.0	49.7	52.2
	2023	644	48.6	40.7	14.6	13.0	15.6	3.7	12.4	42.7	54.0
Hong Kong SAR	2019	419	33.6	33.0	13.7	19.1	32.3	0.9	1.0	35.2	32.2
	2023	607	38.3	37.3	15.0	20.8	24.1	0.4	2.4	35.8	40.9
Hungary	2019	640	42.7	41.6	20.1	16.2	19.6	2.0	0.5	44.3	41.2
	2023	763	43.5	40.5	19.8	18.2	14.7	1.2	5.6	36.7	50.2
Italy	2019	539	55.3	52.2	15.7	8.8	17.7	2.9	2.6	49.2	60.1
	2023	659	54.5	44.1	14.6	9.7	12.5	3.4	15.8	51.7	56.9
Korea, Rep. of	2019	556	64.5	64.1	11.9	7.6	15.8	0.4	0.2	60.1	68.4
	2023	871	68.3	67.2	10.9	6.5	13.9	1.0	0.5	65.7	70.5
Lithuania	2019	533	52.1	50.7	14.1	9.8	22.6	2.1	0.6	49.2	54.8
	2023	658	48.1	46.7	15.3	13.6	21.4	1.6	1.4	49.4	46.7
Netherlands	2019	470	55.4	54.5	18.5	7.0	18.5	0.4	1.1	52.1	58.1
	2023	507	56.1	53.7	18.4	6.9	16.8	1.0	3.2	57.5	54.7
Norway (5)	2019	558	59.4	56.8	12.5	8.9	17.6	2.0	2.3	58.3	60.4
	2023	783	63.0	56.8	12.3	8.9	12.2	2.4	7.5	64.3	61.7
Portugal	2019	613	45.9	43.4	18.5	9.4	23.2	2.4	3.1	42.6	48.5
	2023	749	48.4	40.9	18.9	8.6	16.1	2.4	13.1	45.1	51.7
Qatar	2019	710	31.6	29.4	27.0	14.4	22.3	1.8	5.0	33.0	30.2
	2023	940	40.8	35.3	21.6	11.9	17.9	2.5	11.0	39.9	41.5
Singapore	2019	843	49.6	49.2	16.7	11.3	22.0	0.5	0.2	47.7	51.6
	2023	1276	58.5	58.1	13.1	9.7	18.5	0.3	0.3	57.1	59.7
Slovak Republic	2019	610	49.7	48.3	14.3	15.1	19.4	2.1	0.7	43.7	54.9
	2023	694	51.9	48.5	13.1	15.4	16.4	2.0	4.6	50.1	53.4
Spain	2019	1364	52.3	49.7	18.1	14.7	12.6	2.5	2.4	48.3	55.5
	2023	1477	44.7	36.9	19.8	12.0	13.7	2.9	14.6	42.8	46.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Applying

A_SD1_12 SE71220: Tropical plant fossil in cold environment - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	49.1	47.3	18.6	17.3	13.2	2.0	1.7	48.4	49.7
	2023	744	45.2	40.8	17.9	17.1	14.5	3.2	6.5	41.6	49.2
United Arab Emirates	2019	3702	35.1	33.5	24.1	15.2	22.8	1.9	2.5	34.7	35.5
	2023	4334	43.4	38.2	19.3	12.2	18.4	1.6	10.3	40.2	46.3
United States	2019	1257	51.0	49.1	18.4	12.5	16.2	1.1	2.7	48.9	52.9
	2023	1256	53.1	47.5	17.4	11.4	13.2	1.1	9.4	49.2	56.4

International Avg. (25)	2019	20349	48.7	46.9	16.7	12.6	19.8	1.9	2.0	46.5	50.8
	2023	25190	50.9	45.7	16.0	12.2	15.8	2.2	8.0	48.5	53.1

Abu Dhabi, UAE	2019	1307	32.2	30.9	26.6	18.3	20.0	1.6	2.5	33.3	31.4
	2023	1073	39.4	34.0	19.1	15.5	17.8	1.5	12.1	36.7	42.0
Dubai, UAE	2019	1040	41.7	40.6	23.1	10.7	23.0	1.3	1.3	42.1	41.3
	2023	1368	48.5	44.8	16.9	10.0	20.6	1.4	6.3	46.9	49.9
Ontario, Canada	2019	540	46.2	43.7	22.1	14.6	14.1	2.2	3.3	46.5	46.0
	2023	607	55.8	49.3	19.6	9.2	10.3	3.4	8.2	56.7	55.0
Quebec, Canada	2019	552	51.8	51.1	14.9	12.2	20.5	0.7	0.7	49.9	53.1
	2023	558	52.3	46.3	18.9	10.5	12.9	1.6	9.9	50.3	53.5

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

Science: Earth Science / Knowing
A_SD1_13 SE71254: Shapes the Moon can have (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1963	49.9	48.0	47.8	1.4	2.9	50.9	48.9
	2023	1980	47.5	46.8	42.3	0.8	10.1	49.4	45.5
Chile	2019	585	37.3	56.5	33.6	3.3	6.6	37.3	37.3
	2023	649	35.5	54.4	30.0	1.3	14.4	36.6	34.7
Chinese Taipei	2019	535	81.9	17.9	81.3	0.4	0.3	84.1	80.0
	2023	1067	77.8	21.8	76.3	0.3	1.6	75.2	80.1
Czech Republic	2019	663	49.5	49.4	48.5	1.2	0.9	50.5	48.5
	2023	997	48.5	47.8	45.0	0.7	6.6	50.9	45.6
Denmark	2019	455	47.8	50.1	45.8	1.3	2.7	51.3	43.9
	2023	747	40.3	52.3	35.3	0.9	11.4	45.8	34.8
England	2019	483	53.8	45.6	53.1	0.8	0.4	56.5	51.0
	2023	602	53.1	44.8	50.8	0.5	4.0	57.2	48.7
Finland	2019	671	55.4	44.0	54.7	1.0	0.2	63.7	47.1
	2023	856	52.5	45.9	50.8	0.8	2.5	54.0	51.1
France	2019	604	43.5	52.8	40.7	1.2	5.2	46.2	40.5
	2023	679	35.8	51.7	28.8	1.7	17.8	37.0	34.6
Georgia	2019	528	26.3	67.1	24.0	3.1	5.7	25.9	26.7
	2023	651	25.5	54.2	18.5	2.6	24.7	27.5	23.6
Germany	2019	485	47.1	49.4	44.0	1.5	5.1	51.0	43.0
	2023	644	38.6	51.4	32.4	2.0	14.3	43.7	33.9
Hong Kong SAR	2019	419	55.6	42.9	53.7	2.3	1.0	55.1	56.0
	2023	607	49.9	48.8	48.7	0.1	2.4	49.2	50.7
Hungary	2019	640	49.4	49.7	48.6	1.0	0.7	51.8	47.3
	2023	763	46.7	49.9	43.8	0.2	6.0	47.3	46.2
Italy	2019	539	34.5	61.9	32.6	2.3	3.1	34.4	34.5
	2023	659	35.3	50.8	27.7	3.5	18.0	35.7	35.0
Korea, Rep. of	2019	556	64.9	35.0	64.8	0.0	0.2	63.0	66.7
	2023	871	62.1	37.4	61.4	0.6	0.7	68.5	56.5
Lithuania	2019	533	53.6	45.4	52.5	1.3	0.8	56.0	51.5
	2023	658	55.9	43.1	54.6	0.0	2.3	57.7	53.8
Netherlands	2019	470	41.3	56.9	40.1	2.0	1.1	44.0	39.0
	2023	507	37.5	59.8	35.8	1.2	3.2	40.9	34.5
Norway (5)	2019	558	56.3	42.0	54.1	1.8	2.1	60.1	52.6
	2023	783	48.5	46.5	43.7	1.6	8.2	54.1	42.5
Portugal	2019	613	37.0	59.0	34.6	2.1	4.3	39.2	35.4
	2023	749	39.3	50.6	32.8	1.3	15.3	45.5	32.9
Qatar	2019	710	24.3	69.8	22.4	2.3	5.6	24.2	24.3
	2023	940	30.6	60.6	26.7	0.7	12.1	31.4	29.9
Singapore	2019	843	54.1	45.7	53.9	0.1	0.2	57.1	51.1
	2023	1276	57.6	42.2	57.3	0.1	0.4	60.0	55.3
Slovak Republic	2019	610	56.0	43.2	55.0	1.1	0.7	57.3	54.8
	2023	694	50.5	45.6	46.6	2.2	5.5	53.2	48.3
Spain	2019	1364	45.4	52.7	43.8	1.1	2.5	46.6	44.5
	2023	1477	41.9	48.2	34.7	1.1	15.9	48.0	36.0

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

Science: Earth Science / Knowing
A_SD1_13 SE71254: Shapes the Moon can have (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	59.5	39.3	57.8	1.2	1.7	64.6	54.7
	2023	743	54.1	42.1	49.6	0.7	7.6	61.2	47.0
United Arab Emirates	2019	3704	42.7	54.3	40.5	2.0	3.1	44.7	40.9
	2023	4334	45.0	48.2	39.4	1.0	11.4	46.4	43.7
United States	2019	1257	56.9	41.7	55.1	0.4	2.8	55.9	57.8
	2023	1256	53.7	41.3	47.8	0.6	10.2	55.1	52.4

International Avg. (25)	2019	20350	49.0	48.8	47.3	1.5	2.4	50.8	47.1
	2023	25189	46.5	47.4	42.4	1.1	9.1	49.3	43.9

Abu Dhabi, UAE	2019	1306	32.6	63.8	30.9	2.2	3.0	35.9	29.7
	2023	1073	34.7	56.3	29.9	0.8	13.0	35.6	33.8
Dubai, UAE	2019	1040	57.6	41.1	55.8	1.0	2.2	60.8	54.5
	2023	1368	60.7	36.0	55.7	1.0	7.2	62.8	58.9
Ontario, Canada	2019	540	44.7	52.1	42.2	1.6	4.1	45.6	43.8
	2023	607	45.3	49.3	40.7	0.4	9.6	47.9	42.5
Quebec, Canada	2019	552	57.5	41.7	56.5	1.0	0.8	58.1	57.0
	2023	558	50.9	42.9	44.3	1.5	11.3	51.0	50.7

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

Science: Life Science / Applying

A_SD2_02 SE61014: Jack on a bus with sick man - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	37.4	61.1	36.5	2.1	0.3	40.5	34.3
	2023	1999	70.9	28.3	69.0	2.2	0.5	73.4	68.3
Chile	2019	602	36.9	59.0	34.6	5.4	1.1	34.5	39.6
	2023	664	64.5	33.7	61.1	5.2	0.0	68.5	61.1
Chinese Taipei	2019	531	80.3	19.6	79.6	0.8	0.0	81.0	79.6
	2023	1073	83.8	15.9	82.3	1.7	0.0	86.0	81.7
Czech Republic	2019	680	22.9	74.4	22.1	3.3	0.1	22.7	23.2
	2023	992	60.7	38.5	59.5	2.0	0.0	61.7	59.9
Denmark	2019	464	39.7	59.1	38.9	1.6	0.5	40.4	39.0
	2023	760	63.7	35.6	62.4	1.5	0.6	69.0	58.4
England	2019	498	32.2	67.0	31.9	0.9	0.2	37.4	27.2
	2023	593	66.8	33.1	66.5	0.4	0.0	74.3	57.9
Finland	2019	679	40.7	57.4	39.4	3.2	0.0	47.4	34.4
	2023	851	65.2	33.7	63.1	3.0	0.2	73.2	57.0
France	2019	596	39.5	56.2	36.7	6.5	0.5	41.3	38.0
	2023	684	66.7	32.1	64.4	2.8	0.7	71.0	61.9
Georgia	2019	537	43.1	52.2	39.5	7.6	0.7	45.9	40.2
	2023	641	68.4	29.0	62.7	6.4	1.9	68.4	68.3
Germany	2019	491	27.2	68.9	25.7	4.5	0.8	27.1	27.3
	2023	652	66.0	33.2	64.7	2.1	0.0	70.1	62.0
Hong Kong SAR	2019	418	58.3	41.0	57.4	1.6	0.0	63.0	54.2
	2023	602	77.2	22.0	74.5	3.4	0.0	79.7	74.9
Hungary	2019	648	41.6	57.0	40.7	2.3	0.0	44.2	39.2
	2023	767	74.1	25.8	73.6	0.5	0.2	74.7	73.3
Italy	2019	534	33.8	63.1	32.3	3.9	0.8	37.3	30.5
	2023	645	67.4	32.1	66.4	1.4	0.2	72.3	63.1
Korea, Rep. of	2019	553	69.5	30.3	69.2	0.5	0.0	77.0	62.8
	2023	865	78.5	21.2	77.4	1.1	0.3	81.8	75.7
Lithuania	2019	538	51.6	47.3	50.3	2.4	0.0	56.6	47.1
	2023	652	70.6	28.9	69.4	1.6	0.0	72.4	68.7
Netherlands	2019	476	38.1	59.5	36.7	3.4	0.3	39.2	37.3
	2023	527	51.5	47.2	50.1	2.2	0.4	52.5	51.5
Norway (5)	2019	560	42.6	56.0	41.5	2.3	0.2	38.7	45.9
	2023	778	65.3	34.2	64.5	1.3	0.0	70.7	59.9
Portugal	2019	608	28.1	69.9	27.3	2.2	0.6	29.7	26.5
	2023	762	69.8	29.5	68.1	1.4	1.1	71.9	67.6
Qatar	2019	710	37.6	57.3	34.5	7.4	0.7	39.3	35.9
	2023	929	59.0	38.5	55.5	5.3	0.7	61.0	57.0
Singapore	2019	856	67.1	32.6	66.4	0.9	0.1	71.1	63.0
	2023	1278	87.4	12.6	87.3	0.1	0.0	88.5	86.3
Slovak Republic	2019	605	41.1	57.0	39.8	3.3	0.0	39.7	42.4
	2023	704	69.7	29.6	67.8	2.6	0.0	68.5	70.9
Spain	2019	1375	50.4	47.6	48.3	3.9	0.3	54.1	46.9
	2023	1477	55.5	42.9	53.4	3.3	0.4	60.5	50.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SD2_02 SE61014: Jack on a bus with sick man - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	36.0	62.4	35.1	2.1	0.3	36.3	35.8
	2023	740	43.7	55.2	42.9	1.9	0.1	48.2	39.0
United Arab Emirates	2019	3692	33.1	62.8	31.1	5.5	0.5	35.5	30.7
	2023	4334	62.1	36.4	59.6	3.3	0.7	65.4	59.0
United States	2019	1242	46.3	53.1	45.8	0.9	0.2	48.4	44.2
	2023	1270	66.8	32.6	65.7	1.1	0.6	74.0	59.5

International Avg. (25)	2019	20393	43.0	54.9	41.7	3.1	0.3	45.1	41.0
	2023	25239	67.0	32.1	65.3	2.3	0.3	70.3	63.7

Abu Dhabi, UAE	2019	1292	24.0	70.9	22.4	6.2	0.6	25.9	22.1
	2023	1080	49.2	48.1	46.5	4.4	1.0	52.7	45.9
Dubai, UAE	2019	1046	45.7	53.1	44.6	2.0	0.3	49.1	42.1
	2023	1356	74.6	25.0	73.6	1.1	0.3	77.3	72.1
Ontario, Canada	2019	537	37.6	61.1	36.9	1.9	0.1	40.1	35.5
	2023	631	71.3	27.7	68.8	2.8	0.6	75.1	67.5
Quebec, Canada	2019	541	39.0	60.3	38.5	0.7	0.4	42.7	34.8
	2023	558	72.1	27.4	70.9	1.5	0.2	73.8	70.3

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

Science: Life Science / Reasoning
A_SD2_03 SE61056: Mary's and Jenny's flowers - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	71.4	28.0	70.1	1.4	0.6	75.9	67.0
	2023	1999	65.1	34.4	64.2	0.8	0.6	68.3	61.9
Chile	2019	602	65.2	33.7	63.0	1.2	2.1	69.6	60.6
	2023	664	54.9	44.1	53.7	2.0	0.3	58.1	52.3
Chinese Taipei	2019	531	58.8	41.1	58.7	0.2	0.0	62.1	56.1
	2023	1071	46.6	53.3	46.5	0.2	0.0	51.1	42.5
Czech Republic	2019	680	87.1	12.9	86.6	0.4	0.1	88.0	86.2
	2023	992	79.9	20.1	79.7	0.3	0.0	83.5	76.6
Denmark	2019	464	77.6	22.1	76.4	0.9	0.6	83.1	72.8
	2023	760	64.1	35.2	62.8	1.4	0.6	68.9	59.3
England	2019	498	73.0	26.8	72.4	0.7	0.2	78.2	68.0
	2023	593	66.2	33.7	66.1	0.2	0.0	68.1	63.6
Finland	2019	679	78.9	21.0	78.6	0.3	0.1	84.3	73.8
	2023	851	71.3	28.6	71.0	0.1	0.3	76.1	66.4
France	2019	596	67.9	31.3	66.2	1.7	0.8	73.9	63.0
	2023	684	58.4	40.6	57.0	1.7	0.7	60.1	56.6
Germany	2019	491	76.6	22.8	74.5	1.7	1.0	84.1	68.8
	2023	652	71.7	28.1	71.1	0.7	0.0	76.1	67.0
Hong Kong SAR	2019	418	51.8	47.5	51.0	1.5	0.0	52.5	51.7
	2023	602	60.6	39.2	60.3	0.5	0.0	62.8	58.6
Hungary	2019	648	73.9	25.7	72.8	1.5	0.0	75.9	72.0
	2023	766	62.8	37.1	62.5	0.2	0.2	66.8	58.5
Italy	2019	534	75.4	24.0	73.6	0.9	1.5	83.1	68.2
	2023	645	57.0	42.7	56.6	0.6	0.2	63.6	51.1
Korea, Rep. of	2019	553	76.6	23.3	76.4	0.3	0.0	80.5	73.5
	2023	865	69.2	30.7	68.9	0.1	0.3	71.5	67.1
Lithuania	2019	538	83.3	16.6	82.8	0.5	0.0	86.9	80.1
	2023	652	77.2	22.7	77.0	0.3	0.0	82.7	71.6
Netherlands	2019	476	76.7	22.8	75.0	1.8	0.3	81.5	71.7
	2023	527	71.1	28.7	70.7	0.1	0.4	72.9	69.2
Norway (5)	2019	560	72.8	27.0	72.4	0.5	0.2	75.7	70.4
	2023	778	64.6	35.3	64.5	0.2	0.0	67.7	61.6
Portugal	2019	608	78.1	21.4	76.1	1.5	1.1	81.0	75.3
	2023	762	67.9	31.7	66.9	0.3	1.1	72.6	62.9
Qatar	2019	710	50.2	47.4	47.8	3.8	1.0	55.8	44.4
	2023	931	45.3	53.6	44.4	0.7	1.3	46.1	44.6
Singapore	2019	856	91.9	8.1	91.8	0.0	0.1	92.4	91.4
	2023	1278	89.5	10.5	89.5	0.0	0.0	91.4	87.7
Slovak Republic	2019	605	82.2	17.7	81.9	0.3	0.1	85.2	79.6
	2023	704	73.2	26.8	73.1	0.1	0.0	78.5	67.5
Spain	2019	1375	73.3	26.4	72.5	0.7	0.3	72.6	73.9
	2023	1478	59.0	40.5	58.1	0.7	0.7	65.4	52.8
Sweden	2019	572	77.5	22.2	76.8	0.6	0.3	81.5	74.1
	2023	740	73.7	26.1	73.2	0.6	0.1	76.8	70.5

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

Science: Life Science / Reasoning
A_SD2_03 SE61056: Mary's and Jenny's flowers - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
United Arab Emirates	2019	3691	53.3	45.8	52.4	0.9	0.8	58.8	47.5
	2023	4334	57.2	42.0	56.3	0.8	0.9	59.5	55.1
United States	2019	1242	71.5	28.2	70.7	0.8	0.4	73.8	69.4
	2023	1270	60.7	38.7	59.9	0.6	0.7	64.5	57.0
International Avg. (24)	2019	19855	72.7	26.8	71.7	1.0	0.5	76.5	69.1
	2023	24598	65.3	34.4	64.7	0.6	0.3	68.9	61.7
Abu Dhabi, UAE	2019	1291	41.2	57.6	40.3	1.1	1.0	47.7	34.0
	2023	1081	45.8	52.8	44.7	1.2	1.2	50.9	41.1
Dubai, UAE	2019	1046	68.7	31.0	68.1	0.5	0.4	73.5	63.9
	2023	1356	71.2	28.6	70.9	0.1	0.4	71.7	70.7
Ontario, Canada	2019	537	69.9	29.4	68.2	1.9	0.6	72.7	67.4
	2023	631	63.5	35.9	62.3	1.1	0.8	67.8	59.3
Quebec, Canada	2019	541	75.0	24.8	74.2	0.7	0.4	81.2	67.9
	2023	558	66.8	32.8	66.1	0.9	0.2	68.8	64.6

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

Science: Life Science / Reasoning
A_SD2_04 SE61015: Best environment for shark - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019 2023	1928 1999	67.5 64.8	31.9 34.7	66.1 63.8	1.0 0.8	1.0 0.7	70.9 69.5	64.2 60.2
Chile	2019 2023	602 664	67.7 55.9	30.9 43.3	64.8 54.9	1.9 1.2	2.5 0.7	67.5 54.1	68.0 57.4
Chinese Taipei	2019 2023	531 1071	52.0 49.7	47.8 50.3	51.9 49.7	0.4 0.0	0.0 0.0	52.5 55.0	51.6 44.8
Czech Republic	2019 2023	680 992	65.1 58.9	34.8 41.0	64.8 58.7	0.3 0.2	0.1 0.1	62.9 61.4	67.0 56.6
Denmark	2019 2023	464 760	52.1 58.9	47.0 40.6	51.2 58.2	1.2 0.2	0.6 0.9	57.8 65.4	47.2 52.6
England	2019 2023	498 593	70.1 65.8	29.6 34.1	69.4 65.5	0.9 0.3	0.2 0.0	69.9 68.5	70.3 61.9
Finland	2019 2023	679 851	74.9 70.5	24.9 29.4	74.3 70.3	0.6 0.0	0.1 0.3	75.9 74.8	73.9 66.2
France	2019 2023	596 684	37.9 40.1	59.6 58.9	36.3 39.4	2.9 0.6	1.2 1.1	42.7 43.1	33.8 36.9
Georgia	2019 2023	540 641	44.3 44.5	53.7 52.4	42.7 42.0	1.3 1.5	2.3 4.2	44.6 45.9	44.0 43.0
Germany	2019 2023	491 652	84.2 59.6	15.5 39.8	82.6 58.8	0.6 1.5	1.4 0.0	83.7 60.7	84.8 58.4
Hong Kong SAR	2019 2023	418 602	57.0 54.0	42.5 45.8	56.3 53.7	1.0 0.4	0.2 0.1	59.0 54.0	55.8 53.9
Hungary	2019 2023	648 767	53.7 51.0	45.6 48.9	52.9 50.8	0.2 0.1	1.3 0.3	61.5 56.2	46.1 45.4
Italy	2019 2023	534 645	53.1 56.3	45.2 43.4	51.3 55.9	1.7 0.2	1.7 0.4	55.8 61.3	50.6 51.8
Korea, Rep. of	2019 2023	553 865	81.0 77.7	18.9 22.2	80.7 77.4	0.3 0.1	0.0 0.3	83.3 83.2	79.4 72.9
Lithuania	2019 2023	538 652	58.4 61.9	41.5 38.0	58.2 61.8	0.3 0.2	0.0 0.0	61.6 65.1	55.5 58.5
Netherlands	2019 2023	476 527	69.2 66.6	30.3 33.3	68.0 66.3	1.2 0.0	0.5 0.4	75.9 70.4	62.5 62.5
Norway (5)	2019 2023	560 778	64.7 47.3	34.8 52.6	63.9 47.2	1.0 0.1	0.2 0.1	68.2 48.3	61.9 46.3
Portugal	2019 2023	608 762	63.0 65.6	36.0 33.7	61.4 64.4	1.1 0.7	1.5 1.2	63.0 64.9	63.0 66.4
Qatar	2019 2023	710 931	36.3 48.4	61.2 50.5	34.9 47.4	2.0 0.4	1.9 1.8	36.7 50.2	36.0 46.6
Singapore	2019 2023	856 1278	77.9 84.1	22.0 15.9	77.6 84.1	0.4 0.1	0.1 0.0	75.4 82.0	80.3 86.2
Slovak Republic	2019 2023	605 704	55.9 53.3	44.0 46.3	55.8 52.9	0.2 0.8	0.1 0.0	60.1 50.2	52.1 56.6
Spain	2019 2023	1375 1478	65.5 63.6	34.0 35.9	64.5 62.7	1.0 0.3	0.4 1.1	68.4 65.0	62.9 62.3

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

Science: Life Science / Reasoning
A_SD2_04 SE61015: Best environment for shark - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	73.2	26.1	71.4	1.9	0.6	72.9	73.4
	2023	740	69.4	30.5	69.2	0.1	0.1	68.6	70.2
United Arab Emirates	2019	3691	37.2	61.1	36.3	1.5	1.1	38.1	36.3
	2023	4335	46.8	52.0	45.7	0.9	1.4	47.0	46.5
United States	2019	1242	76.3	23.5	75.5	0.5	0.4	80.3	72.4
	2023	1270	71.4	28.2	70.2	0.4	1.2	74.2	68.5

International Avg. (25)	2019	20395	61.5	37.7	60.5	1.0	0.8	63.5	59.7
	2023	25241	59.4	40.1	58.8	0.4	0.7	61.6	57.3

Abu Dhabi, UAE	2019	1291	28.5	69.2	27.6	2.0	1.2	28.3	28.6
	2023	1081	37.7	60.5	36.6	1.0	1.9	40.4	35.1
Dubai, UAE	2019	1046	53.6	45.8	52.9	0.7	0.5	55.1	52.1
	2023	1356	63.8	35.8	63.1	0.7	0.5	61.4	66.1
Ontario, Canada	2019	537	74.3	25.0	72.4	1.3	1.3	80.1	69.4
	2023	631	69.9	29.3	68.1	1.5	1.0	74.8	65.1
Quebec, Canada	2019	541	58.8	40.7	58.1	0.6	0.6	60.7	56.8
	2023	558	56.4	43.5	56.1	0.2	0.2	59.5	53.5

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

Science: Life Science / Knowing
A_SD2_05 SE61113: Boiling water before drinking - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	28.7	66.0	26.6	6.1	1.3	29.3	28.2
	2023	1999	35.1	60.5	32.8	5.8	0.9	32.7	37.5
Chile	2019	602	12.8	75.6	11.1	9.7	3.6	10.6	15.2
	2023	664	25.5	65.9	22.5	10.1	1.5	22.0	28.3
Chinese Taipei	2019	531	52.2	46.5	50.7	2.8	0.0	52.7	51.7
	2023	1071	44.9	53.2	43.3	3.5	0.0	45.0	44.8
Czech Republic	2019	680	14.6	73.5	12.6	13.8	0.1	9.3	19.1
	2023	992	8.9	80.3	7.8	11.8	0.1	7.3	10.4
Denmark	2019	464	29.6	66.1	27.8	5.3	0.8	35.0	24.9
	2023	760	58.8	39.5	56.4	3.1	1.1	60.3	57.4
England	2019	498	17.2	78.8	16.3	4.7	0.2	14.8	19.5
	2023	593	35.0	61.5	33.1	5.4	0.0	31.6	38.6
Finland	2019	679	31.7	65.1	30.2	4.6	0.1	30.3	33.0
	2023	851	34.6	62.4	33.0	4.3	0.3	32.0	37.2
France	2019	596	44.1	41.6	32.8	23.2	2.5	43.6	44.4
	2023	684	46.5	43.0	37.4	17.9	1.6	46.7	46.3
Georgia	2019	541	46.7	38.2	33.5	25.6	2.7	43.3	49.9
	2023	641	39.0	43.6	27.9	23.5	5.0	40.6	37.5
Germany	2019	491	51.9	39.0	42.2	17.0	1.8	55.1	48.3
	2023	652	52.2	40.3	43.9	15.3	0.5	57.1	47.3
Hong Kong SAR	2019	418	42.3	53.9	39.6	6.1	0.4	45.0	40.5
	2023	602	53.7	42.5	49.3	8.0	0.2	50.1	57.0
Hungary	2019	648	12.6	79.3	11.5	8.0	1.3	9.2	16.0
	2023	767	15.2	78.9	14.2	6.7	0.3	11.7	18.8
Italy	2019	534	29.4	58.5	24.4	14.8	2.3	28.1	30.6
	2023	645	37.6	54.5	32.8	12.1	0.6	43.2	32.7
Korea, Rep. of	2019	553	35.4	63.0	34.4	2.6	0.0	31.9	38.5
	2023	865	54.6	43.8	52.7	3.1	0.4	51.2	57.4
Lithuania	2019	538	17.9	76.9	16.8	6.3	0.0	15.3	20.3
	2023	652	24.0	73.2	23.2	3.6	0.0	19.6	28.6
Netherlands	2019	476	45.2	51.0	42.0	6.4	0.5	42.7	48.0
	2023	527	36.2	61.2	34.6	3.7	0.4	31.8	40.6
Norway (5)	2019	560	41.3	55.5	39.2	5.0	0.3	40.4	42.2
	2023	778	35.1	63.2	34.1	2.5	0.2	33.6	36.6
Portugal	2019	608	18.9	67.1	15.6	15.5	1.8	15.0	22.7
	2023	762	35.9	52.4	29.3	16.5	1.7	32.3	39.5
Qatar	2019	710	36.5	53.0	30.4	13.4	3.1	41.1	31.8
	2023	931	32.3	61.0	29.1	7.9	2.0	31.8	32.9
Singapore	2019	856	56.2	42.7	54.9	2.3	0.1	55.4	57.1
	2023	1278	72.7	27.0	72.2	0.7	0.1	69.5	75.9
Slovak Republic	2019	605	17.9	68.4	14.9	16.6	0.1	13.3	21.9
	2023	704	15.3	72.6	13.1	14.2	0.1	15.7	14.9
Spain	2019	1375	27.8	62.4	24.1	12.9	0.6	27.5	28.1
	2023	1478	33.8	55.9	28.5	14.2	1.4	33.7	33.8

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

Science: Life Science / Knowing
A_SD2_05 SE61113: Boiling water before drinking - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	22.8	70.1	20.7	8.0	1.1	20.1	25.0
	2023	740	22.8	71.6	21.2	7.1	0.1	22.8	22.9
United Arab Emirates	2019	3696	23.7	68.0	21.1	9.1	1.8	23.9	23.6
	2023	4335	32.1	63.0	29.7	5.2	2.1	31.4	32.6
United States	2019	1242	19.0	78.7	18.4	2.4	0.5	15.4	22.5
	2023	1270	21.4	75.0	20.4	3.1	1.4	19.4	23.5

International Avg. (25)	2019	20401	31.1	61.6	27.7	9.7	1.1	29.9	32.1
	2023	25241	36.1	57.8	32.9	8.4	0.9	34.9	37.3

Abu Dhabi, UAE	2019	1293	14.4	75.3	12.7	9.8	2.3	14.5	14.2
	2023	1081	21.3	72.2	19.6	5.6	2.7	21.1	21.6
Dubai, UAE	2019	1046	29.7	66.3	28.0	4.9	0.8	31.2	28.2
	2023	1356	37.4	60.5	36.1	2.3	1.1	34.3	40.3
Ontario, Canada	2019	537	21.9	72.4	20.3	5.6	1.7	22.9	21.1
	2023	631	31.1	63.9	28.8	6.0	1.2	29.8	32.3
Quebec, Canada	2019	541	44.7	51.4	41.5	6.5	0.6	45.8	43.7
	2023	558	41.2	54.7	38.4	6.5	0.3	38.6	43.6

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

Science: Physical Science / Knowing

A_SD2_06 SE61107: Property of a liquid - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	48.8	13.3	9.0	27.0	46.9	1.6	2.2	45.7	51.7
	2023	1999	46.8	13.1	7.1	31.1	45.2	1.6	1.8	44.9	48.8
Chile	2019	602	55.3	11.0	11.1	19.1	51.1	1.8	5.8	58.7	51.9
	2023	664	55.9	9.8	11.1	21.6	53.7	0.8	3.0	57.3	54.7
Chinese Taipei	2019	531	62.8	5.4	6.6	24.9	62.4	0.5	0.1	65.2	60.8
	2023	1073	56.5	3.4	6.3	33.6	56.3	0.4	0.0	56.7	56.3
Czech Republic	2019	680	38.7	13.0	11.7	34.6	37.4	2.2	1.2	34.3	42.6
	2023	992	40.5	12.8	10.1	35.8	40.0	1.0	0.4	40.1	40.9
Denmark	2019	464	32.5	22.2	15.6	26.6	31.0	2.9	1.7	29.0	35.5
	2023	760	36.1	16.5	16.8	28.3	34.9	2.0	1.5	30.9	41.2
England	2019	498	52.4	11.2	4.9	30.8	51.6	1.3	0.3	52.2	52.6
	2023	593	57.4	7.0	5.7	29.4	56.5	1.2	0.3	58.7	56.2
Finland	2019	679	40.1	9.7	25.5	23.8	39.5	1.2	0.3	40.8	39.4
	2023	851	38.9	8.8	22.1	30.0	38.6	0.1	0.5	40.2	37.5
France	2019	596	37.8	16.6	16.3	22.4	33.6	5.4	5.7	33.3	41.4
	2023	684	37.9	15.8	18.7	24.7	36.1	1.7	2.9	34.9	41.0
Georgia	2019	539	45.4	13.0	14.8	21.4	41.0	4.6	5.1	45.2	45.6
	2023	641	43.4	13.8	11.3	26.8	39.7	1.5	7.1	43.5	43.3
Germany	2019	491	42.8	16.5	20.6	16.4	40.0	2.3	4.2	43.8	41.8
	2023	652	43.9	11.2	23.7	19.6	42.7	1.8	1.0	42.9	45.2
Hong Kong SAR	2019	418	50.1	9.1	7.6	32.5	49.4	0.2	1.2	51.2	48.9
	2023	602	62.3	6.8	5.9	24.9	61.9	0.3	0.2	59.2	65.0
Hungary	2019	648	53.6	9.9	15.8	19.3	51.9	1.3	1.9	56.3	51.0
	2023	767	52.4	12.5	14.0	20.7	51.9	0.4	0.4	51.8	53.1
Italy	2019	534	70.9	7.7	8.2	11.6	66.9	2.1	3.5	70.5	71.2
	2023	645	68.7	9.0	10.2	11.5	67.5	0.9	0.9	71.6	66.2
Korea, Rep. of	2019	553	81.3	4.2	2.4	12.1	81.0	0.3	0.0	83.4	79.4
	2023	865	83.0	1.9	2.0	13.0	82.6	0.0	0.4	82.5	83.4
Lithuania	2019	538	48.0	11.0	17.2	23.2	47.5	1.0	0.1	46.9	48.9
	2023	652	46.3	11.8	15.1	26.5	46.0	0.5	0.2	48.3	44.2
Netherlands	2019	476	40.9	30.2	13.7	12.4	39.0	4.0	0.7	40.3	41.1
	2023	527	36.9	30.8	12.5	18.5	36.2	0.9	1.1	41.0	33.3
Norway (5)	2019	560	40.7	11.7	20.8	25.7	40.0	1.5	0.4	43.8	38.3
	2023	778	38.7	9.5	23.2	27.3	37.8	1.7	0.4	39.9	37.5
Portugal	2019	608	50.9	6.9	7.4	32.5	48.6	1.6	3.0	52.8	49.1
	2023	762	49.1	5.2	8.8	34.7	47.0	2.1	2.3	51.1	47.0
Qatar	2019	710	51.0	10.4	13.3	22.1	47.5	1.4	5.2	56.6	45.5
	2023	931	54.3	6.5	9.3	28.2	52.4	0.8	2.8	54.6	54.0
Singapore	2019	856	78.6	0.9	3.7	16.6	77.8	0.7	0.3	77.7	79.5
	2023	1278	77.8	0.5	3.7	17.9	77.6	0.1	0.1	76.6	78.9
Slovak Republic	2019	605	42.3	8.3	13.9	34.1	41.3	1.7	0.6	41.2	43.3
	2023	704	36.0	12.3	14.6	36.1	35.5	0.8	0.6	39.4	32.4
Spain	2019	1375	46.6	15.1	8.8	28.2	45.5	1.3	1.2	45.3	47.8
	2023	1478	46.1	11.6	9.7	30.6	44.4	1.3	2.4	47.6	44.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SD2_06 SE61107: Property of a liquid - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	30.0	17.4	17.5	32.2	28.7	2.6	1.7	30.3	29.7
	2023	740	29.0	13.9	21.1	34.6	28.5	1.6	0.2	27.2	31.0
United Arab Emirates	2019	3685	51.0	9.3	12.5	25.0	48.6	1.7	2.9	53.2	48.6
	2023	4335	55.3	6.7	9.7	26.6	53.1	0.8	3.2	56.6	54.1
United States	2019	1242	52.4	9.8	5.6	31.1	51.2	1.2	1.1	50.4	54.4
	2023	1270	46.7	8.1	6.7	37.0	45.4	1.1	1.7	45.5	47.9

International Avg. (25)	2019	20388	49.8	11.8	12.2	24.2	48.0	1.9	2.0	49.9	49.6
	2023	25243	49.6	10.4	12.0	26.8	48.5	1.0	1.4	49.7	49.5

Abu Dhabi, UAE	2019	1288	42.9	12.2	16.7	24.6	40.3	2.3	3.8	46.5	39.1
	2023	1081	44.6	10.0	12.7	30.1	42.6	0.8	3.8	46.3	43.1
Dubai, UAE	2019	1046	62.7	5.9	5.9	24.6	61.1	0.7	1.8	64.9	60.5
	2023	1356	64.3	4.2	5.2	25.5	63.0	0.4	1.6	64.4	64.3
Ontario, Canada	2019	537	55.5	12.3	5.7	24.6	53.0	1.4	3.0	51.7	58.5
	2023	631	52.3	10.8	6.6	28.3	50.2	1.5	2.6	48.1	56.5
Quebec, Canada	2019	541	35.9	14.7	11.7	36.1	35.0	1.1	1.4	35.9	35.7
	2023	558	35.1	16.9	8.4	37.5	34.0	2.4	0.8	37.0	33.4

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

Science: Physical Science / Reasoning
A_SD2_07 SE61046: Mary dissolving sugar - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	38.6	16.8	16.4	36.9	25.4	2.2	2.3	39.1	38.1
	2023	1999	37.6	20.4	16.4	36.4	23.4	1.2	2.1	38.5	36.8
Chile	2019	602	25.3	23.5	22.9	22.7	20.8	3.5	6.7	26.1	24.5
	2023	664	29.2	24.7	19.5	27.3	22.0	3.4	3.2	27.7	30.5
Chinese Taipei	2019	531	66.7	20.9	7.9	66.1	14.2	0.7	0.1	66.7	66.7
	2023	1073	62.8	11.3	8.2	62.4	17.5	0.2	0.4	61.7	63.8
Czech Republic	2019	680	42.3	17.6	12.2	41.0	26.1	1.9	1.3	39.2	45.0
	2023	991	43.9	19.0	13.1	43.0	22.8	1.4	0.6	38.5	48.7
Denmark	2019	464	36.7	17.5	18.5	34.8	23.9	3.4	1.9	37.6	36.0
	2023	760	33.4	22.7	18.9	31.9	22.1	2.7	1.8	32.8	34.1
England	2019	498	56.1	11.7	10.8	55.1	20.5	1.4	0.5	55.3	56.9
	2023	593	54.6	15.2	11.3	53.8	18.3	1.0	0.4	54.7	54.7
Finland	2019	679	45.3	16.0	17.4	44.0	19.7	2.5	0.4	50.4	40.5
	2023	851	39.9	15.8	17.0	39.2	26.4	1.1	0.5	41.1	38.6
France	2019	596	28.0	16.2	20.4	24.8	27.2	5.5	5.9	24.1	31.2
	2023	684	29.7	21.5	19.0	27.7	25.0	3.0	3.7	26.8	32.9
Georgia	2019	539	28.3	20.7	20.4	24.4	20.8	8.5	5.2	25.9	30.9
	2023	641	32.4	18.8	19.7	28.3	20.4	5.0	7.8	37.7	27.2
Germany	2019	491	33.2	19.2	13.7	30.7	28.7	3.1	4.6	35.6	30.8
	2023	652	36.1	22.3	14.9	35.0	24.7	1.8	1.2	37.7	34.6
Hong Kong SAR	2019	418	48.1	12.5	15.6	47.3	22.9	0.4	1.2	44.2	51.5
	2023	602	53.1	11.1	16.4	52.6	19.0	0.4	0.5	49.7	56.1
Hungary	2019	648	39.5	21.3	18.1	38.1	19.0	1.3	2.1	38.5	40.3
	2023	767	39.5	17.6	17.5	38.9	24.5	0.7	0.8	40.1	38.9
Italy	2019	534	38.7	21.4	15.2	35.9	20.3	3.4	3.7	34.9	42.3
	2023	645	37.5	19.8	19.6	36.2	21.1	1.6	1.7	39.6	35.6
Korea, Rep. of	2019	553	56.9	13.7	12.6	56.5	16.5	0.8	0.0	54.6	58.7
	2023	865	57.2	13.9	12.8	56.7	15.6	0.5	0.4	56.2	58.1
Lithuania	2019	538	42.6	17.3	13.0	41.9	26.1	1.4	0.3	44.3	41.3
	2023	652	50.4	11.4	14.0	49.8	23.5	1.0	0.2	53.5	47.2
Netherlands	2019	476	38.5	13.2	15.8	36.7	29.6	3.4	1.2	34.9	41.5
	2023	527	42.5	16.8	16.3	41.1	22.5	1.9	1.4	40.4	44.7
Norway (5)	2019	560	42.1	15.2	20.2	40.5	20.3	3.2	0.6	44.0	40.5
	2023	778	46.9	17.4	14.0	46.3	21.0	0.7	0.5	51.1	42.8
Portugal	2019	608	34.9	17.9	16.8	32.5	26.0	3.4	3.4	35.3	34.6
	2023	762	40.1	17.2	16.7	37.9	22.6	2.0	3.6	39.8	40.5
Qatar	2019	710	32.4	20.8	17.0	29.7	24.3	2.9	5.3	35.7	29.1
	2023	931	40.9	19.4	15.5	39.3	22.0	0.6	3.2	41.5	40.2
Singapore	2019	856	81.5	5.7	4.5	81.0	8.3	0.4	0.3	82.0	81.0
	2023	1278	83.3	7.5	3.6	83.2	5.6	0.0	0.2	84.7	82.0
Slovak Republic	2019	605	40.7	19.8	15.9	39.1	21.3	3.0	0.8	41.9	39.6
	2023	704	40.9	20.6	14.1	39.8	23.0	1.6	1.0	45.6	35.9
Spain	2019	1375	33.8	21.9	17.1	32.7	25.1	2.0	1.2	32.3	35.1
	2023	1478	34.5	20.9	17.6	32.4	23.0	2.9	3.1	36.4	32.8

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

Science: Physical Science / Reasoning
A_SD2_07 SE61046: Mary dissolving sugar - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	45.5	16.1	19.2	44.4	17.9	0.7	1.7	48.9	42.6
	2023	740	45.5	18.3	15.3	43.9	19.0	3.1	0.4	44.9	46.1
United Arab Emirates	2019	3686	42.0	18.4	15.6	39.8	21.0	1.9	3.3	42.8	41.2
	2023	4335	47.4	17.1	13.6	45.3	19.6	0.6	3.8	48.8	46.0
United States	2019	1242	44.5	15.8	16.5	43.3	21.7	1.3	1.4	41.7	47.3
	2023	1270	43.7	17.4	16.2	42.3	21.0	0.9	2.3	44.7	42.7

International Avg. (25)	2019	20389	42.5	16.8	15.7	40.8	21.9	2.5	2.2	42.2	42.7
	2023	25242	44.1	17.5	15.3	42.8	21.0	1.6	1.8	44.6	43.7

Abu Dhabi, UAE	2019	1287	33.6	19.8	17.3	31.5	25.1	2.3	4.1	36.0	31.0
	2023	1081	36.6	19.7	18.1	34.9	22.5	0.8	4.1	36.8	36.5
Dubai, UAE	2019	1046	58.5	14.5	10.6	56.7	15.1	1.2	2.0	60.4	56.7
	2023	1356	64.9	10.4	8.7	63.3	15.1	0.5	2.0	63.7	66.1
Ontario, Canada	2019	537	39.2	17.8	15.4	37.1	24.4	2.3	3.1	39.5	39.0
	2023	631	39.1	20.6	15.0	37.5	22.7	1.2	2.9	40.6	37.7
Quebec, Canada	2019	541	35.9	13.9	19.1	34.4	28.5	2.6	1.5	37.9	33.3
	2023	558	32.7	19.9	21.3	31.9	24.5	1.2	1.2	31.9	33.7

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

Science: Physical Science / Applying
A_SD2_08 SE61047: Object X complete circuit - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	72.9	13.0	69.8	9.4	3.5	1.4	2.9	72.2	73.7
	2023	1999	71.9	15.0	69.2	8.7	3.3	1.4	2.4	72.9	71.1
Chile	2019	602	63.0	14.6	56.6	13.2	5.5	2.7	7.5	64.5	61.4
	2023	664	68.7	12.6	64.5	12.2	4.6	2.3	3.7	65.4	71.3
Chinese Taipei	2019	531	90.8	5.2	90.0	2.8	1.1	0.7	0.2	87.6	93.5
	2023	1073	92.6	3.3	92.1	3.0	1.1	0.0	0.5	91.9	93.2
Czech Republic	2019	680	74.2	13.6	70.8	8.4	2.7	3.3	1.3	68.4	79.0
	2023	992	74.2	14.0	72.9	8.6	2.7	1.1	0.7	70.7	77.5
Denmark	2019	464	74.9	11.4	71.5	9.1	3.5	2.1	2.4	75.1	74.8
	2023	760	73.3	11.4	70.6	10.3	4.0	1.1	2.5	72.8	73.8
England	2019	498	76.8	9.3	75.7	10.9	2.6	1.0	0.5	75.5	78.2
	2023	593	79.4	11.7	78.9	6.9	1.9	0.2	0.4	79.5	78.7
Finland	2019	679	77.2	10.7	75.7	8.8	2.8	1.4	0.6	76.9	77.6
	2023	851	74.2	10.1	73.3	11.4	4.0	0.9	0.5	75.8	72.7
France	2019	596	72.7	11.3	66.8	10.8	3.0	2.2	6.0	73.0	72.5
	2023	684	74.3	11.0	69.8	9.7	3.4	1.7	4.4	76.2	72.3
Georgia	2019	539	54.1	22.4	47.4	12.9	4.9	5.6	6.8	50.0	58.5
	2023	641	59.1	17.7	52.2	14.9	3.6	3.0	8.6	57.3	60.9
Germany	2019	491	84.0	10.0	77.6	3.5	1.4	2.1	5.4	86.0	81.9
	2023	652	82.7	11.4	80.6	3.7	1.8	0.7	1.9	80.3	85.1
Hong Kong SAR	2019	418	85.6	6.7	84.4	5.4	2.1	0.2	1.2	86.4	84.9
	2023	602	84.2	7.3	83.2	5.0	3.3	0.7	0.5	84.0	84.5
Hungary	2019	648	75.3	11.9	73.1	9.0	3.0	0.8	2.1	73.4	77.1
	2023	767	66.4	16.3	64.9	12.0	4.4	1.4	1.0	66.0	66.9
Italy	2019	534	76.7	13.7	72.0	6.7	1.5	1.5	4.7	79.0	74.6
	2023	645	71.2	15.5	68.3	8.8	3.3	2.3	1.8	72.4	70.1
Korea, Rep. of	2019	553	76.9	12.7	76.9	5.8	4.6	0.0	0.0	74.5	79.0
	2023	865	71.7	11.7	71.2	11.1	5.2	0.1	0.6	66.8	76.0
Lithuania	2019	538	80.3	9.9	79.0	8.0	1.4	1.3	0.4	75.2	84.8
	2023	652	75.5	9.9	74.9	11.6	2.8	0.6	0.2	77.0	73.9
Netherlands	2019	476	74.7	13.5	72.4	7.8	3.2	2.0	1.2	75.2	74.0
	2023	527	78.8	10.5	76.3	6.5	3.5	1.6	1.6	74.7	82.8
Norway (5)	2019	560	84.6	7.2	82.1	5.9	1.8	2.1	0.8	87.5	82.3
	2023	778	76.7	14.4	75.7	6.5	2.0	0.8	0.5	77.6	75.9
Portugal	2019	608	76.6	10.4	71.6	8.3	3.2	1.7	4.8	76.9	76.3
	2023	762	78.4	8.1	74.3	8.8	3.6	1.3	3.9	79.1	77.7
Qatar	2019	710	66.9	15.7	61.5	10.1	4.6	1.8	6.3	70.5	63.4
	2023	931	76.4	10.6	73.3	7.7	4.4	0.5	3.6	80.2	72.4
Singapore	2019	856	90.3	4.2	89.9	4.1	1.3	0.2	0.3	88.0	92.6
	2023	1278	88.7	5.3	88.5	4.3	1.7	0.0	0.2	86.9	90.4
Slovak Republic	2019	605	73.3	16.1	71.9	6.3	3.7	1.0	0.9	70.9	75.6
	2023	704	72.6	15.3	70.7	8.3	3.0	1.6	1.0	73.9	71.3
Spain	2019	1375	72.5	14.8	70.4	9.0	2.9	1.6	1.3	73.2	72.0
	2023	1478	72.7	14.6	69.4	8.2	3.2	0.8	3.8	72.2	73.1

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

Science: Physical Science / Applying
A_SD2_08 SE61047: Object X complete circuit - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	81.1	10.4	78.2	4.7	3.2	1.9	1.7	81.0	81.1
	2023	740	75.2	11.5	73.8	8.8	4.0	1.2	0.7	76.2	74.1
United Arab Emirates	2019	3689	71.9	11.5	68.0	10.0	5.1	1.6	3.7	73.4	70.3
	2023	4335	78.6	8.8	75.0	8.0	3.6	0.5	4.1	78.6	78.6
United States	2019	1242	79.9	8.8	77.7	7.6	3.2	1.0	1.7	80.3	79.6
	2023	1270	78.3	10.3	76.0	7.6	3.1	0.5	2.5	79.0	77.7

International Avg. (25)	2019	20392	76.3	11.6	73.2	7.9	3.0	1.6	2.6	75.8	76.8
	2023	25243	75.8	11.5	73.6	8.5	3.3	1.1	2.1	75.5	76.1

Abu Dhabi, UAE	2019	1289	64.0	14.6	59.7	11.9	7.2	2.0	4.6	65.8	62.1
	2023	1081	69.4	11.9	66.3	11.5	5.9	0.1	4.3	70.3	68.5
Dubai, UAE	2019	1046	85.3	5.9	82.2	7.1	1.2	1.6	2.1	87.3	83.2
	2023	1356	88.6	4.2	86.2	5.5	1.3	0.5	2.2	89.3	87.9
Ontario, Canada	2019	537	71.0	13.3	67.3	10.4	3.8	1.5	3.8	72.5	69.6
	2023	631	70.1	17.2	66.8	7.8	3.5	1.3	3.4	70.6	69.6
Quebec, Canada	2019	541	75.8	11.2	73.6	9.2	3.1	0.9	2.0	74.1	78.0
	2023	558	70.8	13.1	68.9	11.8	3.5	1.3	1.3	72.9	69.1

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

Science: Physical Science / Knowing

A_SD2_09 SE61048: Movements due to gravity - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	61.7	58.8	3.1	23.1	10.3	1.7	3.0	58.4	64.9
	2023	1999	64.4	62.1	2.6	22.6	9.1	1.0	2.6	58.2	70.5
Chile	2019	602	42.4	37.7	3.9	34.1	13.0	2.6	8.6	40.9	44.1
	2023	664	53.6	49.8	6.7	27.6	8.7	3.2	4.0	46.4	59.5
Chinese Taipei	2019	531	76.4	75.9	2.8	11.4	9.2	0.6	0.2	71.5	80.7
	2023	1073	72.3	71.7	4.1	13.3	10.2	0.2	0.5	66.0	78.1
Czech Republic	2019	680	63.1	60.2	2.1	23.4	9.8	3.0	1.5	55.6	69.5
	2023	992	54.9	53.5	2.9	27.9	13.3	1.5	0.9	47.0	62.0
Denmark	2019	464	56.6	52.6	3.6	27.0	9.8	4.0	2.9	50.4	61.9
	2023	760	54.4	51.3	5.1	25.6	12.3	2.8	2.9	52.1	56.6
England	2019	498	67.9	66.3	2.5	18.7	10.1	1.8	0.5	61.2	74.2
	2023	593	69.5	68.0	3.0	16.7	10.0	1.8	0.4	66.3	72.4
Finland	2019	679	63.5	61.8	1.3	25.0	9.3	2.0	0.6	58.8	68.1
	2023	851	57.9	56.9	3.5	24.7	13.3	1.1	0.5	55.0	60.8
France	2019	596	42.7	38.0	4.5	30.2	16.4	5.0	6.0	35.2	48.6
	2023	684	44.9	41.6	5.8	32.5	12.8	2.4	5.0	38.9	51.1
Georgia	2019	538	45.0	39.0	4.0	22.8	20.8	5.9	7.4	40.2	50.3
	2023	641	51.1	44.1	5.5	17.5	19.3	4.1	9.5	53.2	48.9
Germany	2019	491	51.1	45.9	2.7	26.6	14.7	4.0	6.1	48.1	54.1
	2023	652	49.1	46.9	2.7	26.7	19.3	2.4	2.1	46.5	51.9
Hong Kong SAR	2019	418	62.9	61.6	9.9	12.6	13.9	0.8	1.2	60.4	65.3
	2023	602	61.9	60.8	8.0	12.0	17.4	1.0	0.7	52.9	70.0
Hungary	2019	648	50.2	48.1	9.1	25.1	13.6	1.9	2.2	48.2	52.1
	2023	767	47.9	46.5	7.6	23.0	20.0	1.1	1.8	44.0	52.0
Italy	2019	534	47.3	42.4	2.8	30.9	13.6	4.9	5.3	40.6	53.5
	2023	645	43.1	41.2	3.3	37.1	13.8	2.2	2.3	39.9	45.9
Korea, Rep. of	2019	553	66.3	65.7	5.2	15.4	12.8	0.9	0.0	58.1	73.8
	2023	865	63.5	63.0	4.8	17.1	14.2	0.2	0.6	51.8	73.7
Lithuania	2019	538	43.6	43.1	11.6	17.0	27.1	0.7	0.4	41.1	45.8
	2023	652	44.5	44.1	11.4	15.0	28.6	0.6	0.3	41.8	47.3
Netherlands	2019	476	54.9	53.3	2.1	31.4	10.3	1.8	1.2	48.5	60.7
	2023	527	56.1	54.4	3.0	26.3	13.2	1.3	1.7	48.4	64.7
Norway (5)	2019	560	46.7	45.3	2.3	28.6	20.9	1.8	1.1	38.8	53.2
	2023	778	51.1	50.4	3.5	26.5	18.2	0.9	0.5	42.4	59.8
Portugal	2019	608	39.0	35.6	2.6	36.5	16.5	3.2	5.5	35.1	42.8
	2023	762	44.5	42.0	4.2	32.4	16.0	1.1	4.3	37.2	52.1
Qatar	2019	710	50.3	45.8	7.0	19.9	18.4	1.8	7.1	48.1	52.4
	2023	931	55.5	53.2	7.1	20.5	15.1	0.5	3.7	53.6	57.4
Singapore	2019	856	69.7	69.3	2.3	21.5	6.4	0.3	0.3	61.7	77.5
	2023	1278	73.5	73.4	2.2	18.1	6.1	0.1	0.2	64.2	82.4
Slovak Republic	2019	605	66.0	64.4	1.8	17.0	14.5	1.0	1.4	63.8	67.9
	2023	704	59.9	58.5	4.2	20.3	14.7	1.0	1.3	58.8	61.1
Spain	2019	1375	52.9	51.2	3.5	29.1	13.1	1.4	1.7	48.0	57.2
	2023	1478	57.5	54.2	3.0	28.6	8.6	1.8	3.9	52.8	61.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SD2_09 SE61048: Movements due to gravity - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	62.5	59.5	2.0	19.5	14.3	2.8	2.0	55.4	68.6
	2023	740	59.3	58.1	4.1	23.7	12.1	1.3	0.7	53.1	65.8
United Arab Emirates	2019	3690	58.0	54.6	6.1	18.4	15.1	1.7	4.1	58.8	57.1
	2023	4335	69.9	66.3	4.8	15.1	8.6	0.8	4.4	69.9	69.9
United States	2019	1242	70.1	68.0	2.2	18.8	8.0	0.8	2.3	65.5	74.5
	2023	1270	70.5	68.0	3.2	18.7	6.6	0.9	2.7	67.1	73.9

International Avg. (25)	2019	20392	56.4	53.8	4.0	23.4	13.7	2.3	2.9	51.7	60.8
	2023	25243	57.2	55.2	4.6	22.8	13.7	1.4	2.3	52.3	62.0

Abu Dhabi, UAE	2019	1290	44.4	41.3	8.0	23.2	20.5	2.0	5.0	45.9	42.7
	2023	1081	60.4	57.4	6.0	19.8	11.9	0.7	4.3	61.0	59.9
Dubai, UAE	2019	1046	75.1	72.6	4.0	12.2	7.8	0.9	2.4	77.0	73.1
	2023	1356	78.6	76.3	3.0	11.8	5.9	0.4	2.6	75.6	81.4
Ontario, Canada	2019	537	69.6	65.6	2.9	17.2	8.6	1.9	3.9	67.8	71.1
	2023	631	69.1	66.0	2.1	18.1	9.3	0.7	3.8	65.4	72.8
Quebec, Canada	2019	541	51.9	50.1	2.0	32.9	11.6	1.3	2.0	48.5	55.5
	2023	558	53.8	52.3	3.4	32.9	8.6	1.4	1.4	45.8	61.4

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

Science: Earth Science / Applying

A_SD2_10 SE61096: Rocks on beach and in woods - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	57.6	18.5	54.7	14.2	7.6	1.8	3.2	58.3	57.0
	2023	1999	53.4	21.5	51.3	16.8	6.5	1.3	2.8	52.3	54.6
Chile	2019	602	44.2	23.6	38.5	17.0	7.9	3.7	9.3	43.8	44.6
	2023	664	37.6	24.2	34.7	24.7	8.7	2.6	5.1	35.4	39.5
Chinese Taipei	2019	531	71.1	15.1	70.6	10.1	3.5	0.6	0.2	70.7	71.4
	2023	1072	69.5	15.7	69.1	8.5	6.1	0.1	0.5	69.4	69.6
Czech Republic	2019	680	55.3	15.3	52.3	18.5	8.5	3.8	1.6	52.2	58.1
	2023	992	52.4	17.9	51.0	16.4	12.1	1.6	1.2	51.6	53.1
Denmark	2019	464	61.1	18.4	58.6	14.1	4.7	1.0	3.2	61.0	61.2
	2023	760	59.4	21.0	56.5	12.8	4.8	1.3	3.7	58.0	60.8
England	2019	498	56.7	17.4	55.6	20.2	4.8	1.2	0.7	54.0	59.3
	2023	593	57.7	19.0	56.4	15.4	6.9	1.6	0.6	58.4	57.0
Finland	2019	679	65.0	17.0	63.3	10.4	6.7	1.6	1.0	61.9	68.0
	2023	851	61.2	17.0	60.2	13.2	8.1	0.8	0.7	61.9	60.5
France	2019	596	53.8	17.9	47.4	16.0	6.8	5.2	6.7	51.1	56.0
	2023	684	50.1	20.3	45.3	19.0	5.8	3.7	5.9	48.5	51.7
Georgia	2019	540	29.3	31.8	25.2	21.6	7.3	5.4	8.7	25.2	34.0
	2023	641	33.1	29.5	26.9	17.4	7.4	6.4	12.5	33.3	32.9
Germany	2019	491	54.8	15.2	49.6	16.2	9.5	2.4	7.2	57.9	51.7
	2023	652	53.3	16.8	51.5	19.3	9.1	1.1	2.2	52.0	54.5
Hong Kong SAR	2019	418	55.9	28.4	54.9	9.0	5.8	0.6	1.2	53.4	57.6
	2023	602	62.2	20.6	61.5	10.8	6.1	0.0	1.0	60.2	63.9
Hungary	2019	648	49.5	17.4	47.0	22.7	7.8	2.6	2.6	51.8	47.4
	2023	767	42.3	18.8	41.3	26.8	10.6	0.6	2.0	38.3	46.5
Italy	2019	534	53.7	20.2	48.2	15.9	5.5	3.6	6.5	48.2	58.7
	2023	645	47.5	26.0	45.2	14.7	9.3	1.8	3.0	45.9	48.8
Korea, Rep. of	2019	553	65.3	21.2	65.1	8.1	5.3	0.4	0.0	62.7	67.4
	2023	865	58.1	25.3	57.6	12.3	4.0	0.0	0.7	54.8	60.9
Lithuania	2019	538	50.7	14.8	50.0	20.1	13.7	0.9	0.4	50.4	51.0
	2023	652	51.7	16.4	51.1	20.9	10.4	0.8	0.3	54.6	48.8
Netherlands	2019	476	54.2	15.3	51.9	18.6	9.9	3.1	1.2	55.6	52.8
	2023	527	49.7	11.8	48.0	26.6	10.2	1.4	1.9	46.9	53.0
Norway (5)	2019	560	63.4	19.4	60.8	10.2	5.4	2.7	1.4	61.9	64.6
	2023	778	61.8	16.5	60.9	14.3	6.8	1.0	0.5	56.1	67.5
Portugal	2019	608	47.4	18.4	42.9	21.5	7.5	2.8	6.8	46.4	48.3
	2023	761	44.9	16.7	41.9	25.9	8.6	2.2	4.6	43.4	46.5
Qatar	2019	710	36.8	22.6	32.9	22.4	11.5	3.0	7.6	39.5	34.2
	2023	931	42.8	24.7	40.7	19.1	10.4	1.2	3.8	42.5	43.2
Singapore	2019	856	42.8	26.3	42.4	15.3	15.1	0.6	0.3	36.8	48.7
	2023	1278	43.6	24.9	43.3	18.6	12.6	0.5	0.2	41.8	45.3
Slovak Republic	2019	605	47.5	18.3	45.2	16.0	15.7	3.2	1.5	43.8	50.7
	2023	704	35.4	25.6	34.4	22.3	14.8	1.5	1.4	36.8	34.0
Spain	2019	1375	49.6	17.4	46.9	18.0	12.3	2.8	2.5	48.4	50.6
	2023	1478	43.9	17.9	40.8	21.4	12.8	2.7	4.5	43.2	44.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Applying

A_SD2_10 SE61096: Rocks on beach and in woods - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	66.6	10.7	63.3	13.4	7.6	3.0	2.1	68.5	65.1
	2023	740	64.9	15.6	63.4	13.4	5.3	1.4	0.9	62.5	67.4
United Arab Emirates	2019	3685	44.8	21.8	41.7	19.7	10.0	2.3	4.5	43.8	45.7
	2023	4334	48.0	21.2	45.0	19.2	8.4	1.4	4.8	46.7	49.1
United States	2019	1242	64.1	14.6	61.7	14.5	5.5	1.3	2.4	62.4	65.7
	2023	1270	57.5	18.6	55.3	17.0	5.2	0.6	3.2	56.0	59.0

International Avg. (25)	2019	20389	53.7	19.1	50.8	16.1	8.2	2.4	3.3	52.4	54.8
	2023	25240	51.3	20.1	49.3	17.9	8.4	1.5	2.7	50.0	52.5

Abu Dhabi, UAE	2019	1287	40.3	23.7	36.8	20.8	10.1	3.2	5.4	36.8	43.3
	2023	1081	43.7	23.5	40.7	21.0	8.0	2.0	4.7	40.6	46.5
Dubai, UAE	2019	1046	49.4	21.4	47.5	19.4	7.8	1.2	2.7	47.9	51.0
	2023	1355	53.4	19.0	51.6	18.9	7.1	0.6	2.8	50.5	56.2
Ontario, Canada	2019	537	59.2	17.9	55.8	13.0	7.6	1.7	4.0	62.8	56.2
	2023	631	49.7	23.7	47.1	17.0	7.0	1.3	3.9	52.0	47.4
Quebec, Canada	2019	541	54.1	18.9	52.3	16.3	9.2	1.2	2.1	54.0	54.2
	2023	558	50.7	20.7	49.0	18.9	8.0	1.6	1.7	45.9	55.7

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

Science: Earth Science / Knowing

A_SD2_11 SE61124: Recycle products made of metal (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	24.6	70.3	22.9	3.1	3.8	22.8	26.2
	2023	1999	20.2	75.3	19.1	2.4	3.1	15.7	24.7
Chile	2019	602	26.0	60.1	21.1	7.4	11.4	23.5	28.5
	2023	664	24.3	67.7	21.8	5.2	5.3	22.6	25.7
Chinese Taipei	2019	531	36.8	61.1	35.7	2.8	0.4	34.0	39.3
	2023	1073	26.9	71.9	26.5	1.1	0.5	22.3	31.2
Czech Republic	2019	680	37.5	56.8	34.1	6.3	2.8	29.6	44.5
	2023	992	31.7	62.5	29.0	6.5	2.0	29.2	34.1
Denmark	2019	464	37.8	57.2	34.7	4.5	3.6	36.1	39.2
	2023	760	34.3	61.4	32.1	2.2	4.3	30.3	38.2
England	2019	498	21.9	74.9	21.0	3.4	0.7	16.6	27.2
	2023	593	22.7	75.2	22.1	1.9	0.8	17.9	27.1
Finland	2019	679	33.9	63.3	32.5	3.0	1.2	32.7	35.0
	2023	851	29.1	68.0	27.9	3.1	0.9	25.9	32.3
France	2019	596	18.9	69.2	16.1	7.2	7.5	14.9	22.2
	2023	683	19.6	73.4	17.9	1.8	6.9	18.6	20.7
Georgia	2019	541	15.5	60.9	11.1	17.6	10.4	14.4	16.6
	2023	641	20.3	54.2	13.8	15.7	16.3	24.7	15.9
Germany	2019	491	27.1	65.4	24.3	2.6	7.7	25.9	28.3
	2023	652	28.2	66.7	26.2	4.8	2.3	27.1	29.5
Hong Kong SAR	2019	418	25.9	72.2	25.3	1.3	1.2	19.8	30.9
	2023	602	25.7	72.6	25.1	1.4	1.0	21.1	29.7
Hungary	2019	648	34.1	62.2	32.1	2.9	2.7	31.4	36.6
	2023	767	37.1	60.3	35.6	1.8	2.3	35.1	39.3
Italy	2019	534	17.5	71.1	15.1	6.0	7.8	14.7	20.2
	2023	645	16.2	78.8	15.3	2.3	3.6	12.9	19.1
Korea, Rep. of	2019	553	33.3	66.0	33.0	1.0	0.0	28.3	37.9
	2023	865	28.0	70.3	27.4	1.6	0.7	24.8	30.9
Lithuania	2019	538	35.8	61.1	34.1	3.7	1.0	30.0	40.9
	2023	652	30.1	68.7	29.6	1.0	0.6	29.7	30.5
Netherlands	2019	476	26.6	68.0	24.7	5.5	1.9	23.0	30.3
	2023	527	26.4	69.5	24.9	3.1	2.5	23.4	30.0
Norway (5)	2019	560	28.5	66.5	26.5	4.7	2.3	23.2	33.0
	2023	778	29.8	68.5	29.1	1.6	0.8	27.8	31.7
Portugal	2019	608	15.8	73.0	13.7	5.7	7.6	13.2	18.3
	2023	762	15.5	76.9	14.1	3.1	5.9	10.2	20.9
Qatar	2019	710	20.4	68.7	17.6	5.3	8.4	19.0	21.8
	2023	931	20.4	73.9	18.9	2.5	4.6	19.6	21.2
Singapore	2019	856	38.6	60.4	38.0	1.2	0.5	33.6	43.6
	2023	1278	37.0	62.6	36.8	0.3	0.3	32.9	41.0
Slovak Republic	2019	605	23.8	69.6	21.8	6.6	2.0	17.1	30.0
	2023	704	29.5	65.8	27.5	4.3	2.3	25.0	34.1
Spain	2019	1375	14.4	78.5	13.2	5.0	3.3	11.3	17.4
	2023	1478	15.0	78.6	13.8	1.7	5.9	14.3	15.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SD2_11 SE61124: Recycle products made of metal (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	23.4	72.3	22.1	3.4	2.2	19.4	26.9
	2023	740	25.4	72.8	24.7	1.6	0.9	21.7	29.1
United Arab Emirates	2019	3687	21.0	70.4	18.7	5.6	5.3	18.0	23.9
	2023	4334	28.6	65.2	26.2	2.8	5.8	26.6	30.5
United States	2019	1242	23.0	72.9	21.8	2.5	2.7	20.0	25.9
	2023	1270	20.0	74.9	18.7	2.8	3.6	16.1	23.8

International Avg. (25)	2019	20392	26.5	66.9	24.4	4.7	3.9	22.9	29.8
	2023	25241	25.7	69.4	24.2	3.1	3.3	23.0	28.3

Abu Dhabi, UAE	2019	1287	16.8	71.6	14.5	7.6	6.3	14.3	18.9
	2023	1081	24.1	68.8	21.8	3.3	6.1	23.3	24.9
Dubai, UAE	2019	1046	27.6	68.4	26.1	2.3	3.2	23.9	31.5
	2023	1355	34.6	62.2	33.0	1.7	3.2	32.3	36.9
Ontario, Canada	2019	537	30.6	64.9	28.6	1.9	4.5	29.2	31.7
	2023	631	20.4	74.1	19.0	2.6	4.2	15.3	25.6
Quebec, Canada	2019	541	13.3	81.3	12.5	3.7	2.5	12.1	14.7
	2023	558	11.4	84.9	10.9	2.0	2.3	11.4	11.5

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

Science: Earth Science / Applying
A_SD2_12 SE61116: Temperature graphs (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1928	47.3	48.6	43.6	2.6	5.2	47.7	46.9
	2023	1999	40.9	54.5	37.7	3.8	4.0	43.6	38.2
Chile	2019	602	23.0	62.0	18.5	4.6	14.8	22.5	23.5
	2023	664	25.3	64.7	21.9	5.7	7.7	23.3	26.9
Chinese Taipei	2019	531	71.7	27.6	69.8	1.3	1.3	72.3	71.1
	2023	1073	69.1	30.6	68.4	0.2	0.8	67.8	70.3
Czech Republic	2019	680	53.2	41.3	46.9	5.3	6.5	45.8	59.7
	2023	992	48.3	46.0	42.9	7.1	4.1	46.7	49.7
Denmark	2019	464	56.9	38.9	51.5	4.0	5.6	52.2	61.0
	2023	760	52.7	42.6	47.4	3.9	6.0	53.3	52.1
England	2019	498	63.7	34.3	60.2	4.4	1.0	63.8	63.6
	2023	593	57.4	41.2	55.4	2.1	1.3	57.9	56.6
Finland	2019	679	62.3	35.9	59.4	2.5	2.2	65.1	59.7
	2023	851	56.3	41.5	53.5	3.2	1.8	56.6	56.0
France	2019	596	49.6	39.7	39.0	10.9	10.3	51.2	48.3
	2023	684	38.2	52.5	32.4	7.1	8.0	36.9	39.5
Georgia	2019	541	25.8	50.1	17.5	15.4	17.1	22.9	28.9
	2023	641	23.2	46.8	14.1	18.8	20.2	27.0	19.2
Germany	2019	491	42.5	49.4	36.5	4.4	9.7	42.1	42.8
	2023	652	30.9	63.3	28.3	4.2	4.2	32.4	29.4
Hong Kong SAR	2019	418	66.1	32.8	64.2	1.4	1.5	69.0	64.3
	2023	602	46.5	51.8	45.1	2.0	1.0	47.8	45.4
Hungary	2019	648	48.1	48.8	45.2	1.8	4.2	46.3	49.8
	2023	767	51.8	46.0	49.4	1.2	3.4	51.8	51.7
Italy	2019	534	54.0	38.4	45.0	6.8	9.8	56.6	51.6
	2023	645	42.9	52.1	39.1	3.7	5.2	43.5	42.3
Korea, Rep. of	2019	553	56.7	43.1	56.4	0.5	0.0	55.1	57.9
	2023	865	61.4	37.7	59.9	1.6	0.7	62.3	60.5
Lithuania	2019	538	43.0	54.4	41.1	2.9	1.6	46.6	40.0
	2023	652	48.3	50.4	47.1	1.6	0.9	53.0	43.4
Netherlands	2019	476	55.4	41.4	51.3	4.5	2.7	54.7	56.0
	2023	527	59.1	37.9	54.9	3.1	4.0	62.6	55.7
Norway (5)	2019	560	56.1	40.9	52.2	3.6	3.3	55.1	57.0
	2023	778	45.0	52.7	43.2	2.8	1.3	42.9	47.2
Portugal	2019	608	46.6	46.0	40.2	4.4	9.4	42.7	50.5
	2023	762	49.1	45.2	43.6	3.2	8.0	48.8	49.4
Qatar	2019	710	29.5	60.0	25.1	4.9	10.0	32.0	27.1
	2023	931	27.6	65.7	25.1	3.3	5.9	25.9	29.6
Singapore	2019	856	58.2	41.3	57.4	0.3	1.0	58.9	57.5
	2023	1278	61.0	38.5	60.3	0.6	0.6	58.5	63.4
Slovak Republic	2019	605	48.1	47.9	44.4	3.2	4.5	47.2	48.9
	2023	704	50.2	46.1	46.4	2.4	5.0	52.3	48.0
Spain	2019	1375	47.0	49.3	43.8	3.1	3.8	46.8	47.2
	2023	1478	30.9	62.0	27.8	3.4	6.9	33.6	28.6

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

Science: Earth Science / Applying
A_SD2_12 SE61116: Temperature graphs (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	572	61.7	35.1	56.6	4.1	4.3	66.1	58.0
	2023	740	53.2	44.2	50.2	3.9	1.7	50.7	55.7
United Arab Emirates	2019	3688	34.7	57.3	30.4	3.9	8.4	33.4	35.9
	2023	4335	35.5	58.0	31.9	2.9	7.1	35.7	35.3
United States	2019	1242	48.5	47.8	45.0	2.8	4.4	50.1	47.0
	2023	1270	46.8	49.2	43.2	2.5	5.0	47.3	46.2

International Avg. (25)	2019	20393	50.0	44.5	45.6	4.1	5.7	49.8	50.2
	2023	25243	46.1	48.9	42.8	3.8	4.6	46.5	45.6

Abu Dhabi, UAE	2019	1286	26.3	63.1	22.5	4.9	9.5	27.5	24.6
	2023	1081	29.7	62.8	26.5	2.8	7.9	32.3	27.3
Dubai, UAE	2019	1046	49.1	46.6	45.0	2.7	5.6	47.0	51.3
	2023	1356	47.3	49.7	44.5	1.8	4.0	45.8	48.6
Ontario, Canada	2019	537	47.6	48.7	44.2	1.5	5.6	49.6	45.8
	2023	631	45.4	49.8	41.4	4.0	4.8	51.0	40.1
Quebec, Canada	2019	541	48.3	48.1	44.9	2.7	4.2	51.3	44.9
	2023	558	26.0	70.0	24.6	1.9	3.5	30.2	21.5

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

Science: Life Science / Knowing

A_SM2_01 SE61135: Milk important for balanced diet - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	79.1	9.8	7.2	78.3	3.7	0.9	0.2	80.4	77.8
	2023	1997	76.0	11.0	9.5	75.7	3.4	0.4	0.0	75.5	76.3
Chile	2019	577	71.4	12.1	12.7	69.9	3.2	1.0	1.2	75.4	67.8
	2023	657	62.7	13.8	19.4	62.1	3.7	0.5	0.4	62.6	62.8
Chinese Taipei	2019	537	84.5	9.3	3.6	84.1	2.6	0.4	0.0	87.9	81.4
	2023	768	87.8	6.6	3.1	87.5	2.6	0.3	0.0	87.9	87.6
Czech Republic	2019	651	65.3	25.0	5.1	64.8	4.4	0.7	0.0	68.9	61.4
	2023	973	67.0	21.2	8.1	66.8	3.6	0.2	0.1	65.1	68.7
Denmark	2019	460	81.6	6.5	8.5	81.1	3.3	0.5	0.1	84.9	78.8
	2023	743	80.4	7.5	8.6	79.4	3.2	1.2	0.1	81.1	79.7
England	2019	475	85.6	5.6	5.9	84.5	2.7	1.3	0.0	87.1	84.3
	2023	580	83.8	5.8	6.6	83.8	3.8	0.0	0.0	82.9	85.3
Finland	2019	668	91.2	1.8	4.9	90.0	2.0	1.3	0.0	94.2	88.6
	2023	833	85.4	5.1	7.1	84.4	2.2	1.3	0.0	88.0	83.1
France	2019	599	77.8	9.3	7.2	77.0	5.4	1.2	0.0	78.2	77.4
	2023	668	71.8	11.8	9.8	71.4	6.4	0.5	0.1	71.3	72.3
Georgia	2019	537	47.5	14.0	33.1	46.5	4.2	2.2	0.0	49.7	45.6
	2023	623	54.5	14.6	24.6	53.7	5.5	1.4	0.1	53.4	55.6
Germany	2019	487	62.7	15.4	9.3	62.1	12.3	0.8	0.1	63.1	62.4
	2023	630	52.9	19.8	14.7	52.4	12.2	0.7	0.3	50.7	55.5
Hong Kong SAR	2019	422	67.5	8.7	11.0	67.0	12.6	0.7	0.0	63.0	71.2
	2023	596	77.3	7.8	9.3	77.0	5.5	0.1	0.3	78.1	76.6
Hungary	2019	653	65.1	10.5	16.3	64.8	7.8	0.6	0.0	67.8	63.0
	2023	741	58.4	15.3	19.4	58.0	6.8	0.4	0.1	57.2	59.6
Italy	2019	529	75.9	9.6	7.2	74.5	6.9	1.8	0.0	76.4	75.4
	2023	640	65.3	15.2	7.9	64.9	11.3	0.6	0.0	68.7	62.2
Korea, Rep. of	2019	558	96.8	2.0	1.0	96.6	0.2	0.2	0.0	97.7	95.9
	2023	632	88.3	6.2	2.9	87.8	2.6	0.5	0.0	89.7	87.0
Lithuania	2019	540	76.5	7.1	9.3	76.0	6.9	0.7	0.0	72.5	80.1
	2023	646	79.0	6.3	11.8	78.9	2.9	0.1	0.0	78.1	79.8
Netherlands	2019	473	63.1	24.2	6.7	62.6	5.8	0.5	0.2	62.9	63.2
	2023	514	65.3	21.8	8.0	64.8	4.6	0.8	0.0	64.7	65.9
Norway (5)	2019	562	67.0	18.3	10.8	65.8	3.3	1.3	0.5	68.6	65.4
	2023	761	65.3	11.6	18.6	65.0	4.4	0.2	0.1	61.0	69.3
Portugal	2019	628	81.5	7.3	6.0	80.8	5.1	0.4	0.4	85.3	78.0
	2023	757	68.0	13.4	11.8	67.6	6.5	0.5	0.1	68.7	67.3
Qatar	2019	710	60.7	10.0	17.7	59.5	10.8	1.5	0.6	66.3	55.0
	2023	918	61.9	10.0	20.2	61.2	7.5	0.6	0.5	60.3	63.7
Singapore	2019	851	91.3	3.0	3.7	91.1	1.9	0.3	0.0	91.8	90.8
	2023	935	87.8	4.8	5.0	87.8	2.4	0.0	0.0	86.8	88.8
Slovak Republic	2019	608	81.3	7.8	8.2	80.3	2.5	0.9	0.3	78.1	84.1
	2023	684	76.2	13.5	8.4	75.8	1.7	0.5	0.0	78.6	73.8
Spain	2019	1352	77.3	10.7	7.1	76.8	4.8	0.6	0.0	77.4	77.2
	2023	1458	70.0	13.0	12.6	69.7	4.3	0.2	0.2	69.4	70.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Knowing

A_SM2_01 SE61135: Milk important for balanced diet - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	72.6	8.6	8.8	71.9	9.7	0.9	0.1	71.3	73.9
	2023	737	72.7	10.1	9.3	71.8	7.6	0.8	0.5	70.0	75.2
United Arab Emirates	2019	3706	64.8	9.2	16.3	63.9	9.3	0.9	0.5	65.8	64.0
	2023	4984	69.6	7.6	16.3	69.3	6.4	0.3	0.2	69.5	69.7
United States	2019	1249	75.9	8.5	11.3	75.3	4.2	0.2	0.5	77.3	74.6
	2023	1294	75.0	7.5	13.2	74.6	4.2	0.1	0.3	72.5	77.3

International Avg. (25)	2019	20334	74.6	10.2	9.6	73.8	5.4	0.9	0.2	75.7	73.5
	2023	24769	72.1	11.3	11.4	71.7	5.0	0.5	0.1	71.7	72.6

Abu Dhabi, UAE	2019	1286	54.4	12.5	20.3	53.3	11.8	1.1	0.9	55.1	54.1
	2023	1791	63.1	9.2	19.8	62.7	7.7	0.4	0.1	64.3	61.9
Dubai, UAE	2019	1055	80.8	3.8	9.7	80.4	5.5	0.4	0.2	82.9	78.8
	2023	1337	82.6	4.4	10.2	82.5	2.8	0.2	0.0	81.7	83.4
Ontario, Canada	2019	539	78.7	9.5	8.0	78.0	3.6	0.6	0.2	81.6	75.7
	2023	628	81.0	8.6	7.8	80.8	2.5	0.2	0.0	80.8	81.0
Quebec, Canada	2019	539	81.4	8.9	6.5	80.4	3.0	1.3	0.0	81.2	81.7
	2023	555	69.2	14.2	11.9	68.6	4.5	0.7	0.1	68.3	70.0

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

Science: Life Science / Knowing
A_SM2_02 SE61069: Plants make their own food - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	66.5	32.6	64.8	2.4	0.2	66.9	66.0
	2023	1997	63.8	35.7	62.9	1.2	0.2	62.5	65.4
Chile	2019	577	85.7	13.6	81.8	3.1	1.5	88.9	82.9
	2023	657	68.5	30.2	65.6	3.7	0.4	68.6	68.3
Chinese Taipei	2019	538	57.6	40.5	55.0	4.5	0.0	56.2	58.9
	2023	768	79.9	19.1	75.9	4.9	0.1	80.5	79.4
Czech Republic	2019	651	54.2	42.3	50.2	7.5	0.0	57.4	50.8
	2023	973	58.8	38.9	55.5	5.6	0.1	61.4	56.4
Denmark	2019	460	64.5	34.6	62.7	2.6	0.1	67.1	62.3
	2023	743	84.3	15.3	82.4	2.2	0.1	84.6	84.1
England	2019	475	66.4	32.8	65.0	2.2	0.0	69.9	63.3
	2023	580	74.0	25.5	72.7	1.8	0.0	72.0	75.7
Finland	2019	668	73.8	25.4	71.7	2.9	0.0	81.1	67.8
	2023	833	74.2	24.5	70.6	4.9	0.0	74.4	74.1
France	2019	598	47.8	48.8	44.7	6.5	0.0	47.2	48.6
	2023	668	48.4	47.8	44.9	7.2	0.1	45.4	51.5
Georgia	2019	537	40.2	53.0	35.6	11.4	0.0	48.4	33.5
	2023	623	58.6	35.6	50.3	13.6	0.5	58.8	58.3
Germany	2019	487	65.4	32.4	61.4	6.1	0.1	62.6	68.7
	2023	630	65.0	33.1	61.4	5.2	0.3	65.7	64.2
Hong Kong SAR	2019	422	51.9	45.9	49.5	4.6	0.0	50.7	52.9
	2023	595	58.2	38.9	54.1	6.7	0.3	56.3	59.8
Hungary	2019	653	65.6	33.5	64.0	2.5	0.1	66.7	64.8
	2023	740	67.2	32.0	65.6	2.3	0.1	69.0	65.4
Italy	2019	529	61.0	36.5	57.2	5.9	0.3	65.8	57.1
	2023	640	67.2	30.9	63.3	5.8	0.0	66.9	67.5
Korea, Rep. of	2019	558	77.4	22.3	76.3	1.4	0.0	78.8	76.1
	2023	632	70.2	29.1	68.4	2.5	0.0	69.5	70.7
Lithuania	2019	540	59.3	37.9	55.2	6.8	0.0	59.9	58.8
	2023	646	60.0	38.0	57.1	4.9	0.0	60.7	59.4
Netherlands	2019	473	60.4	38.6	58.9	2.3	0.2	56.0	64.3
	2023	514	60.4	38.7	58.9	2.1	0.4	59.1	61.7
Norway (5)	2019	562	68.8	29.9	65.8	3.8	0.5	69.4	68.1
	2023	761	72.1	27.1	70.2	2.5	0.1	72.7	71.6
Portugal	2019	628	33.0	59.1	29.1	11.4	0.4	30.5	35.3
	2023	757	37.5	54.8	32.9	12.1	0.2	37.6	37.5
Qatar	2019	710	70.6	27.9	67.0	4.0	1.1	76.0	65.0
	2023	918	69.0	29.8	66.4	3.2	0.6	71.9	65.9
Singapore	2019	851	72.4	27.5	72.1	0.4	0.0	73.0	71.7
	2023	935	67.4	32.6	67.4	0.0	0.0	67.7	67.2
Slovak Republic	2019	608	42.7	53.7	40.0	6.1	0.3	40.7	44.5
	2023	684	45.7	51.6	43.5	4.9	0.0	44.7	46.7
Spain	2019	1352	67.1	31.8	64.9	3.2	0.2	67.2	67.1
	2023	1457	59.0	38.8	55.8	5.2	0.2	59.5	58.5

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

Science: Life Science / Knowing
A_SM2_02 SE61069: Plants make their own food - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	67.2	30.8	63.0	5.8	0.4	63.5	70.9
	2023	737	72.6	25.5	67.6	6.4	0.5	73.9	71.4
United Arab Emirates	2019	3710	67.6	30.9	64.4	4.2	0.5	69.9	65.2
	2023	4984	71.5	27.7	69.6	2.5	0.2	72.8	70.3
United States	2019	1249	72.8	26.8	71.9	0.8	0.5	72.9	73.0
	2023	1294	86.1	13.7	84.8	1.1	0.4	86.7	85.5

International Avg. (25)	2019	20338	62.4	35.6	59.7	4.5	0.3	63.5	61.5
	2023	24766	65.6	32.6	62.7	4.5	0.2	65.7	65.5

Abu Dhabi, UAE	2019	1290	60.8	36.6	56.7	5.6	1.0	64.2	57.0
	2023	1791	61.2	37.4	59.1	3.1	0.4	63.9	58.5
Dubai, UAE	2019	1055	75.5	24.2	74.5	1.2	0.2	75.5	75.5
	2023	1337	78.7	21.0	77.9	1.0	0.0	78.3	79.2
Ontario, Canada	2019	539	69.0	30.1	67.2	2.4	0.3	72.0	66.1
	2023	628	61.8	37.8	61.1	1.1	0.0	59.7	64.9
Quebec, Canada	2019	539	64.9	34.3	63.3	2.4	0.1	62.8	66.4
	2023	555	64.9	34.4	63.6	1.6	0.5	61.2	68.6

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

Science: Life Science / Applying
A_SM2_03 SE61134: Lions panting on hot days - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	58.1	13.6	10.6	16.7	56.9	1.8	0.3	60.1	56.3
	2023	1997	59.4	13.7	11.3	15.3	58.9	0.6	0.2	64.7	53.7
Chile	2019	577	26.7	18.2	25.9	25.2	25.2	3.3	2.1	27.0	26.4
	2023	657	29.3	19.3	19.0	30.4	28.5	2.3	0.4	32.4	27.1
Chinese Taipei	2019	537	58.3	25.0	9.2	7.3	58.0	0.5	0.0	65.5	51.7
	2023	768	64.2	20.4	5.8	9.6	64.1	0.0	0.1	68.5	60.5
Czech Republic	2019	651	60.8	10.7	9.9	18.2	60.0	1.3	0.0	60.7	60.9
	2023	973	58.6	13.6	7.8	19.8	58.3	0.5	0.1	61.9	55.6
Denmark	2019	460	60.9	16.6	10.1	11.8	60.0	1.4	0.1	65.2	57.5
	2023	743	60.0	14.0	10.5	14.8	58.9	1.5	0.3	61.9	57.9
England	2019	475	69.0	9.1	7.7	13.8	68.1	1.3	0.0	70.3	67.8
	2023	580	62.7	10.8	7.1	19.2	62.5	0.4	0.0	68.3	57.4
Finland	2019	668	79.5	6.6	4.8	8.9	78.8	0.9	0.0	81.5	77.8
	2023	833	72.7	7.4	7.1	12.4	71.7	1.3	0.1	76.0	69.8
France	2019	598	54.2	12.8	22.2	8.6	51.7	4.7	0.0	60.0	47.6
	2023	668	48.7	13.6	21.9	14.6	47.5	2.2	0.2	46.5	51.0
Georgia	2019	534	39.3	12.5	20.4	25.7	38.0	3.5	0.0	42.6	36.5
	2023	623	40.9	14.3	15.2	28.2	39.8	2.0	0.5	43.0	38.9
Germany	2019	487	59.3	17.2	10.8	11.9	58.2	1.7	0.1	54.2	64.2
	2023	630	58.6	16.9	10.1	13.7	57.7	1.3	0.3	62.7	53.9
Hong Kong SAR	2019	422	73.0	10.3	2.0	14.5	72.5	0.7	0.0	73.3	72.8
	2023	596	69.4	8.9	5.3	16.3	69.2	0.0	0.3	73.4	65.9
Hungary	2019	653	66.6	9.0	4.6	19.4	65.9	0.9	0.2	62.9	69.7
	2023	741	64.6	7.0	5.8	22.3	64.2	0.5	0.1	67.8	61.2
Italy	2019	529	27.2	17.8	31.1	20.8	26.1	4.0	0.3	30.1	24.7
	2023	640	28.3	17.0	30.9	21.3	27.3	3.5	0.0	26.4	30.0
Korea, Rep. of	2019	558	57.1	26.5	1.6	14.3	56.5	1.1	0.0	59.1	55.2
	2023	632	60.3	27.2	1.3	11.1	60.1	0.2	0.2	55.2	64.7
Lithuania	2019	540	56.6	12.3	13.2	17.0	55.6	1.8	0.0	56.9	56.4
	2023	646	51.5	9.6	12.4	26.3	51.5	0.2	0.0	51.9	51.2
Netherlands	2019	473	68.0	9.0	6.0	16.4	66.8	1.5	0.2	71.4	64.9
	2023	514	66.1	9.2	12.8	11.7	65.9	0.0	0.4	65.6	67.1
Norway (5)	2019	562	68.3	13.2	5.2	12.4	66.6	2.0	0.5	76.3	60.5
	2023	761	69.7	9.8	8.7	11.6	69.2	0.6	0.1	72.6	66.9
Portugal	2019	628	42.9	13.1	14.4	27.7	41.5	2.9	0.4	43.8	42.2
	2023	757	48.0	10.9	14.9	25.0	47.0	2.0	0.2	49.9	46.0
Qatar	2019	710	37.3	15.3	18.9	26.5	36.1	2.0	1.2	38.5	36.1
	2023	918	39.6	15.2	16.7	27.5	39.0	0.7	0.9	41.5	37.6
Singapore	2019	851	70.5	9.8	6.1	13.4	70.1	0.6	0.0	72.8	68.0
	2023	935	68.2	11.0	3.7	17.1	68.2	0.0	0.0	70.7	65.9
Slovak Republic	2019	608	68.9	8.5	8.7	13.3	67.6	1.6	0.3	74.5	63.7
	2023	684	64.7	11.5	7.4	16.5	64.6	0.1	0.0	65.1	64.2
Spain	2019	1352	48.0	9.4	20.1	21.8	47.4	1.2	0.2	51.1	45.3
	2023	1458	42.2	12.5	19.1	24.6	41.2	2.2	0.3	42.1	42.4

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

Science: Life Science / Applying
A_SM2_03 SE61134: Lions panting on hot days - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	58.2	13.9	11.5	15.6	57.0	1.7	0.4	65.9	50.5
	2023	737	59.4	13.0	12.5	14.0	57.9	2.0	0.5	64.3	54.9
United Arab Emirates	2019	3704	43.7	15.3	17.5	21.6	42.3	2.4	0.7	46.5	40.9
	2023	4984	47.6	15.0	15.1	21.8	47.2	0.6	0.3	49.7	45.6
United States	2019	1249	65.9	12.1	7.2	14.2	64.6	1.4	0.5	67.7	64.1
	2023	1294	63.2	13.3	6.5	16.6	62.6	0.5	0.5	65.0	61.5

International Avg. (25)	2019	20328	56.7	13.5	12.0	16.7	55.7	1.8	0.3	59.1	54.5
	2023	24769	55.9	13.4	11.6	18.5	55.3	1.0	0.2	57.9	54.0

Abu Dhabi, UAE	2019	1287	37.6	16.2	20.1	23.0	35.7	3.4	1.7	41.9	32.9
	2023	1791	41.4	16.3	18.2	23.5	40.9	0.7	0.4	43.2	39.6
Dubai, UAE	2019	1055	55.9	13.3	11.7	18.4	55.1	1.4	0.2	58.5	53.3
	2023	1337	60.4	12.3	10.2	16.9	60.3	0.2	0.1	62.5	58.5
Ontario, Canada	2019	539	57.3	12.6	11.1	17.9	55.8	2.1	0.4	58.3	56.2
	2023	628	63.7	11.4	9.5	15.2	63.4	0.4	0.1	70.9	55.4
Quebec, Canada	2019	539	55.1	17.7	12.9	13.5	54.1	1.7	0.1	56.0	54.7
	2023	555	54.0	15.3	16.6	13.5	53.3	0.9	0.5	56.0	52.0

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

Science: Life Science / Applying
A_SM2_04 SE61140: Grasshopper and butterfly cycles - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	43.6	20.7	42.6	21.1	13.3	1.9	0.4	45.0	42.3
	2023	1997	40.9	23.0	40.6	21.5	14.1	0.6	0.3	43.5	37.9
Chile	2019	577	39.7	30.4	37.7	17.3	9.7	2.4	2.5	40.4	39.1
	2023	657	45.3	24.5	44.4	17.0	12.1	1.6	0.4	46.8	44.2
Chinese Taipei	2019	537	68.6	4.4	68.6	13.1	13.9	0.0	0.0	67.8	69.3
	2023	768	69.0	7.5	68.9	11.9	11.6	0.0	0.1	65.9	71.6
Czech Republic	2019	651	53.6	21.4	52.9	11.0	13.4	1.2	0.0	55.3	51.7
	2023	973	57.4	19.7	56.6	10.3	12.0	1.3	0.1	57.3	57.5
Denmark	2019	460	57.4	14.8	55.8	9.3	17.4	2.7	0.1	54.9	59.4
	2023	743	58.5	13.2	56.5	11.2	15.7	2.8	0.7	60.1	56.7
England	2019	475	43.1	17.1	42.3	22.4	16.4	1.7	0.0	46.4	40.0
	2023	580	40.7	21.8	40.2	23.2	13.6	1.1	0.0	38.7	42.1
Finland	2019	668	67.6	8.1	66.9	9.6	14.4	1.0	0.0	72.3	63.5
	2023	833	63.2	7.4	62.1	12.0	16.8	1.5	0.1	64.7	61.8
France	2019	599	47.4	21.4	45.3	16.2	12.6	4.5	0.0	47.1	47.8
	2023	668	50.1	20.5	49.1	15.7	12.6	1.7	0.3	50.7	49.5
Georgia	2019	537	47.9	15.4	46.0	20.8	13.9	3.9	0.0	48.3	47.5
	2023	623	47.6	18.4	46.2	20.5	11.9	2.5	0.5	53.4	42.2
Germany	2019	487	49.4	17.4	48.3	15.0	17.0	2.0	0.3	55.2	42.6
	2023	630	53.9	19.9	52.7	13.2	11.9	2.0	0.3	54.5	53.2
Hong Kong SAR	2019	422	58.8	18.3	58.6	11.6	11.1	0.4	0.0	59.5	58.3
	2023	596	58.8	15.2	58.5	13.9	11.9	0.1	0.3	59.8	57.9
Hungary	2019	653	51.7	16.6	51.1	13.6	17.5	1.0	0.2	50.1	53.1
	2023	741	56.0	15.3	55.6	13.2	15.2	0.5	0.2	55.0	57.0
Italy	2019	529	44.2	29.7	42.9	17.0	7.5	2.6	0.5	42.3	45.8
	2023	640	40.0	26.9	39.2	20.8	11.1	1.9	0.1	40.4	39.6
Korea, Rep. of	2019	558	66.1	9.9	66.1	14.9	9.2	0.0	0.0	66.8	65.5
	2023	632	69.6	10.0	69.1	11.6	8.6	0.3	0.3	69.0	70.1
Lithuania	2019	540	49.1	16.0	48.9	22.0	12.8	0.4	0.0	52.5	46.0
	2023	646	47.8	16.6	47.8	23.1	12.5	0.0	0.0	47.7	47.9
Netherlands	2019	473	41.4	29.7	40.5	14.3	13.2	2.2	0.2	40.9	41.9
	2023	514	47.5	21.6	46.4	13.8	15.9	1.9	0.4	44.9	50.6
Norway (5)	2019	562	66.5	10.6	65.1	8.7	13.4	1.7	0.5	69.5	63.7
	2023	761	63.1	10.9	62.7	10.7	15.0	0.5	0.1	67.0	59.4
Portugal	2019	628	41.0	21.2	39.9	24.7	11.5	1.9	0.8	39.8	42.0
	2023	757	41.4	19.8	40.9	24.4	13.6	1.1	0.2	40.6	42.3
Qatar	2019	710	47.0	19.1	45.5	18.3	13.8	1.5	1.7	48.3	45.8
	2023	918	43.1	18.0	42.5	23.1	15.1	0.5	0.9	44.6	41.6
Singapore	2019	851	89.7	2.6	89.2	4.5	3.1	0.5	0.0	89.1	90.3
	2023	935	88.5	2.3	88.5	5.3	4.0	0.0	0.0	89.3	87.7
Slovak Republic	2019	608	63.6	17.3	62.1	12.0	6.3	2.0	0.3	64.4	62.9
	2023	684	66.5	13.2	66.2	10.2	9.9	0.4	0.0	67.1	65.9
Spain	2019	1352	44.8	22.7	43.9	18.9	12.5	1.8	0.2	43.8	45.7
	2023	1458	43.3	22.3	42.5	21.2	12.3	1.4	0.4	49.5	37.5

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

Science: Life Science / Applying
A_SM2_04 SE61140: Grasshopper and butterfly cycles - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	59.3	14.1	57.8	9.8	15.8	2.1	0.4	64.0	54.6
	2023	737	57.6	12.0	55.8	10.1	19.0	2.6	0.6	59.3	56.1
United Arab Emirates	2019	3705	53.0	16.0	51.7	16.9	12.9	1.4	1.1	53.3	52.9
	2023	4984	56.3	15.2	55.8	16.0	12.1	0.4	0.4	58.0	54.7
United States	2019	1249	53.4	15.2	52.4	20.7	9.7	1.1	0.8	57.5	49.9
	2023	1294	52.1	15.2	51.5	22.4	9.7	0.7	0.6	50.8	53.5

International Avg. (25)	2019	20333	53.9	17.2	52.9	15.3	12.5	1.7	0.4	55.0	52.9
	2023	24769	54.3	16.4	53.6	15.8	12.7	1.1	0.3	55.2	53.5

Abu Dhabi, UAE	2019	1287	45.8	18.4	44.3	18.9	15.2	1.3	1.8	44.1	47.8
	2023	1791	49.8	18.8	49.2	17.2	13.5	0.7	0.6	50.2	49.5
Dubai, UAE	2019	1055	64.1	12.6	63.1	14.2	8.6	1.2	0.3	66.2	62.0
	2023	1337	63.1	12.3	63.0	14.2	10.3	0.1	0.1	65.1	61.3
Ontario, Canada	2019	539	42.3	21.7	41.1	20.0	14.4	2.3	0.4	44.5	40.0
	2023	628	38.9	23.6	38.6	21.9	15.1	0.7	0.2	41.7	35.1
Quebec, Canada	2019	539	45.1	21.0	44.4	22.4	10.6	1.4	0.2	44.0	47.0
	2023	555	39.5	26.3	39.0	22.0	11.4	0.7	0.5	41.1	38.0

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

Science: Life Science / Reasoning

A_SM2_05 SE61019: Hawks and mice in a field - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	38.3	60.2	37.4	1.8	0.6	41.0	35.4
	2023	1997	30.3	68.4	29.8	1.6	0.3	29.3	31.6
Chile	2019	577	28.3	67.7	26.7	2.5	3.1	33.1	24.1
	2023	657	30.2	66.5	28.8	4.2	0.5	34.2	27.3
Chinese Taipei	2019	538	42.8	57.0	42.6	0.4	0.0	48.3	37.7
	2023	767	36.7	63.2	36.7	0.0	0.1	43.0	31.4
Denmark	2019	460	21.2	76.5	20.5	2.8	0.1	24.8	18.2
	2023	743	26.1	71.4	25.3	2.5	0.8	29.0	23.1
England	2019	475	31.0	68.3	30.7	1.0	0.0	31.0	30.9
	2023	580	42.8	56.9	42.6	0.4	0.1	42.8	43.2
Finland	2019	668	36.1	61.9	35.1	2.8	0.2	35.9	36.3
	2023	833	34.7	64.1	34.1	1.7	0.1	40.1	29.8
France	2019	599	24.1	72.4	23.0	4.6	0.0	28.1	19.5
	2023	667	17.2	79.7	16.6	3.3	0.4	16.8	17.7
Georgia	2019	536	38.1	57.5	35.4	6.6	0.4	39.2	37.2
	2023	623	29.5	67.2	28.2	4.0	0.6	32.8	26.6
Germany	2019	487	29.6	67.5	28.4	3.7	0.3	32.2	26.8
	2023	630	29.6	67.4	28.3	4.1	0.3	31.4	27.5
Hong Kong SAR	2019	422	45.5	53.8	44.8	1.4	0.0	46.4	44.7
	2023	596	49.6	49.9	49.2	0.6	0.3	49.1	50.1
Hungary	2019	653	45.4	54.1	45.0	0.7	0.2	51.3	40.7
	2023	741	37.4	62.0	37.1	0.5	0.5	37.4	37.5
Italy	2019	529	31.4	66.2	30.3	3.0	0.5	34.4	28.9
	2023	640	26.5	71.5	25.8	2.6	0.1	23.9	28.9
Korea, Rep. of	2019	558	34.0	66.0	34.0	0.0	0.0	32.7	35.2
	2023	632	36.9	62.2	36.4	1.0	0.3	37.5	36.4
Lithuania	2019	540	46.7	52.1	45.7	2.1	0.0	49.3	44.5
	2023	646	39.3	59.5	38.6	1.9	0.0	43.9	34.7
Netherlands	2019	473	23.1	73.9	22.2	3.7	0.2	23.8	22.4
	2023	514	18.9	78.9	18.4	2.4	0.4	17.3	20.2
Norway (5)	2019	562	35.4	62.2	34.1	3.0	0.7	42.4	28.6
	2023	761	29.1	69.5	28.5	1.8	0.1	33.4	25.0
Portugal	2019	628	32.4	65.1	31.2	2.5	1.2	36.6	28.7
	2023	757	36.0	63.3	35.6	0.9	0.2	35.3	36.7
Qatar	2019	710	19.8	76.6	18.9	2.6	2.0	21.1	18.5
	2023	918	24.0	74.9	23.7	0.5	0.9	24.3	23.7
Singapore	2019	851	29.5	69.9	29.3	0.8	0.0	31.3	27.6
	2023	935	48.0	52.0	48.0	0.0	0.0	44.9	50.9
Slovak Republic	2019	608	32.7	65.7	31.9	2.2	0.3	33.8	31.6
	2023	684	31.2	67.8	30.7	1.5	0.0	33.1	29.2
Spain	2019	1352	37.1	61.9	36.5	1.4	0.2	42.4	32.5
	2023	1457	33.5	63.4	32.0	4.0	0.6	32.7	34.3
Sweden	2019	564	44.2	54.2	43.0	2.1	0.6	50.7	38.0
	2023	737	35.2	63.4	34.4	1.6	0.6	37.2	33.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning
A_SM2_05 SE61019: Hawks and mice in a field - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
United Arab Emirates	2019	3710	15.2	82.0	14.7	1.9	1.3	17.0	13.6
	2023	4984	25.0	74.3	24.7	0.5	0.4	25.7	24.4
United States	2019	1249	46.8	52.4	46.0	0.8	0.8	49.7	44.1
	2023	1294	27.9	70.9	27.4	0.9	0.8	30.0	25.8
International Avg. (24)	2019	19687	33.7	64.4	32.8	2.3	0.5	36.5	31.1
	2023	23793	32.3	66.2	31.7	1.8	0.4	33.5	31.2
Abu Dhabi, UAE	2019	1289	9.0	87.1	8.6	2.2	2.0	9.5	8.7
	2023	1791	17.0	81.7	16.7	0.9	0.7	18.2	15.8
Dubai, UAE	2019	1055	21.1	78.1	20.9	0.7	0.3	24.2	18.0
	2023	1337	38.9	60.8	38.7	0.4	0.1	42.1	36.0
Ontario, Canada	2019	539	41.9	56.6	40.9	1.9	0.7	45.2	38.6
	2023	628	33.8	64.9	33.2	1.7	0.2	34.9	33.2
Quebec, Canada	2019	539	35.8	62.9	35.2	1.6	0.3	38.4	32.6
	2023	555	23.4	75.3	23.0	1.2	0.5	19.8	26.9

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

Science: Life Science / Knowing
A_SM2_06 SE61022: Laura has the flu - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	78.9	77.1	5.1	8.9	6.7	1.4	0.9	80.5	77.1
	2023	1997	75.8	75.2	7.9	8.8	7.3	0.2	0.6	80.4	70.9
Chile	2019	577	41.3	38.3	14.5	26.7	13.3	3.2	4.0	40.8	41.7
	2023	657	42.0	41.5	19.0	24.8	13.5	0.6	0.5	48.8	36.8
Chinese Taipei	2019	538	86.0	85.9	5.2	6.0	2.7	0.1	0.0	89.1	83.1
	2023	768	89.0	88.8	3.1	5.2	2.7	0.1	0.1	91.1	87.1
Czech Republic	2019	651	44.3	43.9	22.5	19.1	13.6	0.9	0.0	42.3	46.5
	2023	973	50.6	50.4	20.3	16.0	12.9	0.2	0.2	53.5	48.0
Denmark	2019	460	71.5	70.2	11.3	13.6	3.2	1.4	0.3	76.9	67.2
	2023	743	80.6	79.0	7.4	8.2	3.4	1.1	0.8	79.7	81.7
England	2019	475	76.4	75.4	8.5	10.0	4.7	1.3	0.0	73.5	79.1
	2023	580	81.3	81.3	8.0	7.0	3.7	0.0	0.1	83.0	80.4
Finland	2019	668	83.4	81.6	9.9	5.0	1.4	1.9	0.2	86.5	80.7
	2023	833	80.0	79.6	11.5	6.7	1.7	0.4	0.1	85.1	75.3
France	2019	599	81.5	80.3	8.1	5.9	4.3	1.4	0.1	83.7	79.0
	2023	668	65.7	64.7	15.4	9.2	9.2	0.7	0.7	67.9	63.3
Georgia	2019	535	37.8	36.4	19.4	33.0	7.5	2.4	1.4	42.1	34.0
	2023	622	40.5	40.1	12.9	36.3	9.6	0.5	0.6	37.7	43.2
Germany	2019	487	74.6	73.6	10.1	8.5	6.5	0.8	0.5	76.3	72.4
	2023	630	69.2	68.8	9.0	12.2	9.4	0.3	0.3	71.3	66.8
Hong Kong SAR	2019	422	80.6	80.2	7.9	1.4	10.0	0.4	0.0	82.5	79.0
	2023	596	79.3	78.9	6.9	3.4	10.3	0.2	0.3	80.5	78.1
Hungary	2019	653	68.1	67.5	6.1	15.2	10.4	0.6	0.2	70.3	66.3
	2023	741	54.2	53.7	9.1	19.3	17.0	0.5	0.5	54.6	53.9
Italy	2019	529	44.5	42.5	13.9	20.2	19.0	4.0	0.5	51.5	38.6
	2023	640	61.6	61.1	5.6	13.9	18.6	0.6	0.3	64.0	59.4
Korea, Rep. of	2019	558	88.5	87.6	3.0	6.5	1.9	1.0	0.0	88.9	88.1
	2023	632	79.7	79.4	6.2	11.1	3.0	0.0	0.3	82.2	77.5
Lithuania	2019	540	69.2	68.5	4.6	19.7	6.2	0.9	0.0	76.3	62.8
	2023	646	62.1	62.0	6.4	24.5	6.8	0.2	0.1	64.3	60.0
Netherlands	2019	473	66.6	65.3	11.8	11.4	9.5	1.8	0.2	67.6	65.8
	2023	514	61.4	61.1	10.3	12.2	15.9	0.0	0.6	65.2	57.2
Norway (5)	2019	562	91.5	89.1	3.3	2.3	2.7	1.8	0.7	94.3	88.7
	2023	761	83.1	82.8	6.3	5.2	5.3	0.3	0.1	86.5	79.9
Portugal	2019	628	50.7	48.8	16.7	16.3	14.4	2.4	1.4	52.7	49.0
	2023	756	58.5	58.0	14.9	6.4	19.9	0.5	0.4	60.7	56.2
Qatar	2019	710	45.8	43.4	13.7	13.7	23.9	2.6	2.7	49.5	42.1
	2023	918	48.9	48.3	11.1	13.4	25.8	0.4	1.0	48.8	49.1
Singapore	2019	851	71.8	71.6	8.6	7.5	11.9	0.4	0.0	75.9	67.5
	2023	935	71.0	71.0	7.5	7.0	14.5	0.0	0.0	71.4	70.7
Slovak Republic	2019	608	45.9	45.1	14.0	22.0	17.2	1.4	0.4	48.5	43.5
	2023	684	57.0	56.9	9.7	17.3	15.8	0.2	0.0	58.4	55.6
Spain	2019	1352	47.9	46.9	29.6	13.7	7.7	1.9	0.3	47.4	48.4
	2023	1458	51.1	50.5	24.8	12.8	10.7	0.3	0.8	55.5	47.0

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

Science: Life Science / Knowing
A_SM2_06 SE61022: Laura has the flu - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	73.5	72.3	10.2	11.8	4.0	0.9	0.8	77.4	69.6
	2023	737	71.6	70.9	13.0	11.0	4.2	0.3	0.6	75.8	67.8
United Arab Emirates	2019	3704	54.7	53.1	13.3	11.7	19.0	1.5	1.4	55.8	53.7
	2023	4984	60.5	59.9	10.6	10.8	17.7	0.5	0.5	61.9	59.3
United States	2019	1249	83.3	81.5	4.2	7.1	5.0	1.2	1.0	86.9	80.1
	2023	1294	77.4	76.5	5.5	9.8	7.0	0.3	0.8	79.7	75.2

International Avg. (25)	2019	20331	66.3	65.0	11.0	12.7	9.1	1.5	0.7	68.7	64.2
	2023	24767	66.1	65.6	10.5	12.5	10.6	0.3	0.4	68.3	64.0

Abu Dhabi, UAE	2019	1288	46.3	44.4	15.4	15.5	20.5	2.1	2.1	47.8	44.7
	2023	1791	49.7	48.9	16.0	14.4	19.2	0.7	0.8	51.9	47.5
Dubai, UAE	2019	1055	68.4	67.8	9.6	8.1	13.7	0.5	0.3	71.4	65.3
	2023	1337	76.0	75.8	6.0	5.9	12.1	0.2	0.1	79.0	73.3
Ontario, Canada	2019	539	75.6	73.8	4.3	11.1	8.4	1.3	1.1	78.1	73.2
	2023	628	76.5	76.2	4.3	10.5	8.6	0.1	0.4	79.6	72.9
Quebec, Canada	2019	539	84.0	83.2	6.3	5.2	4.4	0.6	0.3	86.2	81.8
	2023	555	73.6	72.7	13.9	7.7	4.5	0.2	1.1	82.1	65.1

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

Science: Physical Science / Reasoning

A_SM2_07 SE61036: Melting butter at end of spoon - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	24.3	73.6	23.7	1.7	1.1	25.8	22.9
	2023	1997	24.5	74.1	24.0	1.2	0.8	23.5	25.0
Chile	2019	577	13.6	79.3	12.5	3.2	4.9	13.5	13.7
	2023	657	13.4	82.9	12.9	3.4	0.8	12.3	14.3
Chinese Taipei	2019	538	17.1	82.4	16.9	0.7	0.0	17.6	16.6
	2023	767	12.6	87.1	12.5	0.2	0.1	11.1	13.8
Czech Republic	2019	651	21.1	77.0	20.5	2.5	0.0	22.5	19.5
	2023	973	19.8	78.9	19.4	1.5	0.2	17.2	22.1
Denmark	2019	460	33.0	65.6	32.3	1.6	0.6	38.0	28.9
	2023	743	33.6	64.6	32.7	1.2	1.5	35.9	30.9
England	2019	475	23.1	75.9	22.9	1.2	0.0	25.2	21.3
	2023	580	29.8	69.1	29.3	1.4	0.1	30.1	29.6
Finland	2019	668	40.2	58.1	39.0	2.0	0.9	42.6	38.1
	2023	833	37.1	61.8	36.4	1.7	0.1	40.1	34.3
France	2019	599	13.3	80.6	12.4	6.8	0.2	15.4	10.9
	2023	668	15.1	81.6	14.5	2.9	0.9	14.4	15.8
Georgia	2019	537	12.3	79.0	11.1	7.7	2.2	10.4	14.0
	2023	623	24.0	72.5	22.9	3.6	0.9	24.0	24.1
Germany	2019	487	29.8	67.4	28.6	3.0	1.0	32.3	27.0
	2023	630	30.3	68.2	29.6	1.7	0.4	31.6	28.7
Hong Kong SAR	2019	422	39.1	60.8	39.0	0.2	0.0	34.8	42.7
	2023	595	41.5	58.0	41.1	0.4	0.5	40.4	42.4
Hungary	2019	653	24.6	74.1	24.2	1.5	0.2	27.7	22.1
	2023	741	23.2	75.7	22.8	0.7	0.8	23.9	22.4
Italy	2019	529	13.7	82.3	13.0	3.1	1.6	12.4	14.7
	2023	640	14.1	83.7	13.8	1.9	0.6	12.0	16.2
Korea, Rep. of	2019	558	44.9	54.9	44.6	0.5	0.0	46.0	43.7
	2023	632	42.8	56.5	42.3	0.9	0.3	37.2	47.7
Lithuania	2019	540	32.8	65.9	32.2	1.7	0.1	33.9	31.8
	2023	646	23.7	75.6	23.5	0.9	0.1	26.1	21.3
Netherlands	2019	473	23.4	75.2	23.0	1.6	0.2	22.8	24.0
	2023	514	20.8	78.1	20.6	0.7	0.6	23.9	17.8
Norway (5)	2019	562	35.9	61.8	34.7	2.1	1.4	36.6	35.3
	2023	761	36.2	62.9	35.7	1.2	0.1	39.6	32.9
Portugal	2019	628	14.5	81.4	13.8	1.8	3.0	12.4	16.3
	2023	757	22.5	76.2	22.1	1.2	0.6	22.7	22.2
Qatar	2019	710	12.0	83.2	11.3	2.0	3.5	11.6	12.4
	2023	918	17.5	80.7	17.1	0.9	1.2	18.1	16.7
Singapore	2019	851	83.8	16.1	83.5	0.4	0.0	82.5	85.3
	2023	935	81.2	18.8	81.2	0.0	0.0	79.1	83.2
Slovak Republic	2019	608	22.4	76.7	22.1	0.7	0.4	24.4	20.6
	2023	684	26.8	72.5	26.5	1.0	0.0	25.3	28.3
Spain	2019	1352	14.8	83.7	14.5	1.5	0.3	11.8	17.4
	2023	1457	22.6	74.5	21.7	3.0	0.8	21.9	23.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Reasoning

A_SM2_07 SE61036: Melting butter at end of spoon - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	28.2	69.4	27.3	2.1	1.1	29.4	27.0
	2023	737	40.7	57.9	39.7	1.8	0.6	41.9	39.7
United Arab Emirates	2019	3710	23.1	74.0	22.2	2.0	1.8	23.1	23.2
	2023	4984	24.8	74.3	24.5	0.6	0.6	23.5	26.0
United States	2019	1249	28.4	70.1	27.8	0.7	1.4	28.9	28.0
	2023	1294	35.8	63.1	35.1	0.8	1.1	34.1	37.4

International Avg. (25)	2019	20339	26.8	70.7	26.1	2.1	1.0	27.3	26.3
	2023	24766	28.6	70.0	28.1	1.4	0.5	28.4	28.6

Abu Dhabi, UAE	2019	1290	12.8	82.6	12.1	2.7	2.5	13.3	12.3
	2023	1791	17.0	81.4	16.7	0.9	1.0	17.2	16.9
Dubai, UAE	2019	1055	37.7	61.3	37.1	1.1	0.5	40.7	34.8
	2023	1337	38.4	61.2	38.2	0.4	0.2	35.1	41.4
Ontario, Canada	2019	539	22.6	75.2	22.0	1.4	1.4	24.8	20.4
	2023	628	24.4	73.8	23.8	1.9	0.5	24.0	23.9
Quebec, Canada	2019	539	26.5	71.8	25.9	2.0	0.3	25.5	27.8
	2023	555	19.5	79.3	19.3	0.2	1.2	18.7	20.4

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

Science: Physical Science / Applying
A_SM2_08 SE61160: State of matter of items (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	88.2	11.4	85.2	2.0	1.4	87.3	89.0
	2023	1997	87.4	12.4	85.9	0.8	0.9	88.3	86.4
Chile	2019	577	77.4	20.6	70.3	3.6	5.5	76.1	78.5
	2023	657	78.3	21.1	76.0	1.8	1.0	78.0	78.4
Chinese Taipei	2019	537	91.4	8.5	90.9	0.6	0.0	95.2	88.0
	2023	768	93.1	6.9	92.9	0.0	0.1	93.2	93.0
Czech Republic	2019	651	76.5	22.9	74.5	2.5	0.1	72.3	81.1
	2023	973	76.6	22.9	75.1	1.8	0.2	76.4	76.8
Denmark	2019	460	75.4	23.8	73.2	2.1	0.9	74.3	76.3
	2023	743	71.0	27.7	67.9	2.9	1.5	67.3	75.1
England	2019	475	94.4	5.5	91.8	2.7	0.0	95.0	93.8
	2023	579	92.0	8.0	91.7	0.2	0.1	93.2	91.5
Finland	2019	668	78.2	21.3	76.4	1.4	0.9	77.4	78.9
	2023	833	79.9	19.8	78.5	1.4	0.3	81.3	78.6
France	2019	599	84.8	14.6	81.4	3.0	1.0	85.1	84.4
	2023	668	81.3	18.1	78.7	2.1	1.1	81.3	81.2
Georgia	2019	536	60.1	35.9	54.1	7.1	2.9	61.3	59.0
	2023	623	66.7	30.9	62.0	5.9	1.3	67.4	66.1
Germany	2019	487	74.8	24.5	72.6	1.4	1.5	76.6	72.7
	2023	630	74.7	24.9	73.5	1.2	0.4	72.2	77.7
Hong Kong SAR	2019	422	93.1	6.7	91.5	1.8	0.0	93.8	92.6
	2023	596	88.8	11.0	87.9	0.6	0.5	90.0	87.8
Hungary	2019	653	84.5	15.1	82.6	2.0	0.3	85.1	84.1
	2023	741	78.0	21.8	77.0	0.3	0.9	78.0	78.0
Italy	2019	529	89.6	9.8	84.5	3.3	2.4	89.6	89.6
	2023	640	87.7	11.9	85.2	2.3	0.6	87.1	88.3
Korea, Rep. of	2019	558	89.5	10.4	89.3	0.2	0.0	89.9	89.2
	2023	632	90.2	9.8	89.8	0.0	0.3	90.6	89.7
Lithuania	2019	540	80.0	19.9	79.4	0.5	0.1	78.4	81.3
	2023	646	82.5	17.4	81.9	0.6	0.1	85.9	79.0
Netherlands	2019	473	33.0	65.7	32.4	1.7	0.2	33.4	32.7
	2023	514	27.7	70.3	27.0	2.2	0.6	31.2	24.5
Norway (5)	2019	562	68.8	30.2	66.5	1.9	1.4	69.5	68.1
	2023	761	67.0	32.5	65.9	1.4	0.1	67.9	66.1
Portugal	2019	628	77.3	21.2	72.3	3.1	3.4	79.1	75.7
	2023	757	81.4	18.3	80.2	0.6	0.9	80.9	81.9
Qatar	2019	710	73.2	25.0	68.0	2.9	4.1	77.6	68.6
	2023	918	75.3	24.0	73.1	1.5	1.4	75.2	75.4
Singapore	2019	851	94.3	5.7	94.0	0.4	0.0	95.2	93.3
	2023	935	94.4	5.6	94.4	0.0	0.0	94.6	94.2
Slovak Republic	2019	608	81.0	18.5	79.2	1.8	0.5	76.0	85.5
	2023	684	75.8	23.8	74.7	1.5	0.0	74.7	77.0
Spain	2019	1352	81.8	17.7	79.7	2.0	0.6	79.0	84.3
	2023	1458	80.5	19.1	79.1	0.8	1.0	78.3	82.6

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

Science: Physical Science / Applying
A_SM2_08 SE61160: State of matter of items (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	78.1	20.9	74.7	3.3	1.1	82.5	73.8
	2023	737	74.2	25.4	72.9	1.1	0.7	73.2	75.0
United Arab Emirates	2019	3708	77.1	21.6	72.6	3.5	2.2	79.2	75.0
	2023	4983	76.6	23.0	75.2	1.0	0.8	77.2	76.0
United States	2019	1249	85.1	14.4	82.1	1.9	1.5	86.3	83.9
	2023	1294	82.3	17.3	80.7	0.9	1.1	83.2	81.4

International Avg. (25)	2019	20335	79.5	19.7	76.8	2.3	1.3	79.8	79.2
	2023	24767	78.5	21.0	77.1	1.3	0.6	78.7	78.5

Abu Dhabi, UAE	2019	1289	66.3	31.2	61.2	4.5	3.1	69.6	63.1
	2023	1790	61.8	37.1	60.0	1.7	1.2	63.3	60.3
Dubai, UAE	2019	1055	90.8	9.0	88.3	2.1	0.6	90.9	90.7
	2023	1337	90.8	9.1	90.1	0.5	0.3	90.8	90.9
Ontario, Canada	2019	539	87.2	12.2	83.4	2.5	1.9	85.2	89.3
	2023	628	86.4	13.4	85.3	0.6	0.7	87.9	84.6
Quebec, Canada	2019	539	91.9	7.9	90.6	1.0	0.5	93.5	90.2
	2023	555	88.8	11.0	87.3	0.5	1.2	88.3	89.4

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

Science: Physical Science / Applying
A_SM2_09 SE61159: Which wagon requires more force - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	81.9	17.6	79.5	1.0	1.9	82.7	81.0
	2023	1997	76.4	23.1	74.9	0.8	1.2	78.7	73.9
Chile	2019	577	76.0	21.9	69.2	1.4	7.5	78.9	73.5
	2023	657	63.6	34.9	61.1	1.8	2.2	66.3	61.6
Chinese Taipei	2019	538	86.0	14.0	86.0	0.0	0.0	87.5	84.7
	2023	768	69.7	30.2	69.6	0.0	0.1	72.1	67.7
Czech Republic	2019	651	78.0	21.6	76.6	0.8	1.0	79.7	76.2
	2023	973	76.6	23.1	75.8	0.9	0.2	76.8	76.5
Denmark	2019	460	76.6	22.9	74.8	1.5	0.9	80.2	73.6
	2023	743	72.9	26.5	71.1	0.5	2.0	77.8	67.5
England	2019	475	76.2	23.5	75.2	1.1	0.2	76.7	75.8
	2023	580	74.6	25.2	73.8	0.9	0.1	73.8	75.0
Finland	2019	668	79.1	20.5	77.9	0.6	1.0	82.8	76.0
	2023	833	79.9	19.8	78.5	1.2	0.5	82.4	77.6
France	2019	599	77.1	22.0	74.0	2.7	1.2	80.8	72.8
	2023	668	59.6	39.4	58.2	0.6	1.8	61.8	57.4
Georgia	2019	537	83.0	15.5	75.8	3.8	5.0	83.1	82.9
	2023	623	64.2	33.8	60.8	1.6	3.8	65.7	62.9
Germany	2019	487	85.6	13.7	81.7	2.3	2.3	85.9	85.2
	2023	630	78.9	20.6	77.4	1.4	0.6	83.2	73.9
Hong Kong SAR	2019	422	68.1	31.4	67.1	0.3	1.2	66.2	69.7
	2023	596	74.1	25.6	73.3	0.2	0.9	77.1	71.4
Hungary	2019	653	85.1	14.6	83.5	1.2	0.7	89.6	81.5
	2023	741	81.4	18.2	79.9	0.7	1.2	83.2	79.5
Italy	2019	529	87.0	12.5	83.5	0.9	3.1	86.1	87.7
	2023	640	84.2	15.4	82.2	1.5	1.0	86.9	81.6
Korea, Rep. of	2019	558	89.0	11.0	88.7	0.3	0.0	92.3	85.8
	2023	632	87.8	12.2	87.1	0.2	0.6	88.6	87.0
Lithuania	2019	540	86.5	13.5	86.2	0.2	0.1	89.7	83.6
	2023	646	82.5	17.5	82.4	0.1	0.1	85.1	79.9
Netherlands	2019	473	84.3	15.5	83.3	1.0	0.2	90.3	79.0
	2023	514	83.1	16.7	82.3	0.4	0.6	86.6	79.5
Norway (5)	2019	562	83.4	16.1	80.9	1.0	2.0	85.8	81.0
	2023	761	79.3	20.6	78.9	0.3	0.2	81.5	77.2
Portugal	2019	628	84.4	14.7	79.5	0.8	5.0	89.8	79.8
	2023	757	85.2	14.5	83.7	0.5	1.3	86.2	84.1
Qatar	2019	710	51.2	45.4	47.6	1.6	5.4	54.1	48.3
	2023	918	48.6	50.2	47.5	0.5	1.9	50.5	46.6
Singapore	2019	851	90.0	10.0	89.7	0.4	0.0	89.0	91.0
	2023	934	85.8	14.2	85.8	0.0	0.0	86.7	84.9
Slovak Republic	2019	608	74.6	24.9	73.2	1.2	0.7	75.0	74.2
	2023	684	70.5	29.4	70.5	0.1	0.0	72.6	68.4
Spain	2019	1352	84.8	14.9	83.1	1.2	0.8	87.9	82.0
	2023	1457	77.6	21.7	75.1	1.7	1.6	78.9	76.4

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

Science: Physical Science / Applying

A_SM2_09 SE61159: Which wagon requires more force - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	84.3	15.1	81.1	1.8	2.0	87.9	80.7
	2023	737	79.0	20.5	76.8	1.9	0.8	84.6	73.9
United Arab Emirates	2019	3708	46.9	50.5	44.5	1.8	3.2	49.8	44.1
	2023	4984	54.0	45.1	53.0	0.6	1.2	55.2	52.9
United States	2019	1249	81.3	18.2	78.9	0.7	2.2	82.8	79.8
	2023	1294	64.8	34.4	63.4	0.7	1.4	64.2	65.4

International Avg. (25)	2019	20337	79.2	20.1	76.9	1.2	1.9	81.4	77.2
	2023	24767	74.2	25.3	72.9	0.8	1.0	76.3	72.1

Abu Dhabi, UAE	2019	1289	31.6	63.6	29.4	2.6	4.5	34.8	28.7
	2023	1791	39.7	58.6	38.7	0.9	1.8	40.9	38.6
Dubai, UAE	2019	1055	66.2	33.1	65.0	0.7	1.1	69.1	63.4
	2023	1337	70.4	29.3	69.9	0.3	0.5	70.7	70.3
Ontario, Canada	2019	539	79.4	19.9	76.7	0.9	2.4	79.9	78.9
	2023	628	73.4	26.0	71.8	1.1	1.0	77.7	68.3
Quebec, Canada	2019	539	87.7	12.2	86.8	0.5	0.5	92.1	83.4
	2023	555	82.7	16.9	80.9	0.5	1.8	85.7	79.8

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

Science: Physical Science / Knowing

A_SM2_10 SE61091: Energy in a closed circuit - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	37.1	41.6	26.8	19.1	10.4	2.1	36.6	37.4
	2023	1997	36.9	40.6	28.5	17.9	11.7	1.4	35.2	38.3
Chile	2019	577	19.7	49.3	15.5	6.2	21.1	7.8	20.4	19.1
	2023	657	22.0	49.3	18.8	7.2	22.2	2.5	24.3	20.4
Chinese Taipei	2019	538	26.3	49.4	22.0	10.6	18.0	0.0	21.1	31.0
	2023	767	33.4	49.4	14.1	21.3	15.1	0.1	30.1	36.3
Czech Republic	2019	651	34.4	32.1	25.4	10.8	30.5	1.2	32.8	36.1
	2023	973	37.2	33.1	24.5	14.6	27.5	0.5	33.6	40.2
Denmark	2019	460	28.7	43.1	21.3	11.0	23.8	0.9	27.5	29.5
	2023	743	25.9	47.9	21.7	9.7	18.7	2.0	28.1	23.8
England	2019	475	39.7	32.7	31.1	16.2	19.9	0.2	36.5	42.4
	2023	580	41.7	35.3	25.5	21.6	17.2	0.4	41.3	42.2
Finland	2019	668	37.0	35.3	23.9	15.8	24.0	1.0	35.1	38.5
	2023	833	33.9	42.1	24.0	15.7	17.4	0.7	35.2	32.7
France	2019	599	32.2	30.3	22.3	8.6	37.4	1.5	33.2	31.2
	2023	668	30.1	35.3	25.1	8.0	29.7	2.0	28.5	31.6
Georgia	2019	536	33.5	31.6	18.5	11.4	32.6	6.0	41.1	27.6
	2023	623	34.4	32.2	24.1	11.2	27.8	4.7	32.6	36.1
Germany	2019	487	34.0	32.9	20.8	11.9	31.0	3.3	38.8	29.2
	2023	630	37.0	34.0	26.3	14.6	24.6	0.6	37.6	36.5
Hong Kong SAR	2019	422	41.0	38.5	24.7	23.0	12.7	1.2	35.1	45.7
	2023	596	46.8	33.8	22.3	28.3	14.7	0.9	44.3	48.9
Hungary	2019	653	30.8	44.9	25.3	13.0	15.9	0.9	31.2	30.6
	2023	740	33.3	43.8	26.7	15.1	12.7	1.7	32.9	33.7
Italy	2019	529	48.0	23.5	27.3	20.7	25.4	3.1	46.0	49.5
	2023	640	40.9	28.2	31.7	14.7	23.5	1.8	40.6	41.2
Korea, Rep. of	2019	558	48.1	31.2	28.1	27.9	12.9	0.0	40.1	55.4
	2023	632	49.7	26.6	37.7	26.1	9.1	0.6	44.6	53.8
Lithuania	2019	540	48.0	32.6	21.0	29.2	17.2	0.1	49.1	47.0
	2023	646	47.8	34.7	21.6	30.9	12.8	0.1	48.5	47.2
Netherlands	2019	473	27.7	49.1	23.6	11.5	15.6	0.2	34.9	21.7
	2023	514	24.1	48.0	25.7	6.5	19.3	0.6	25.3	22.9
Norway (5)	2019	562	31.9	42.3	24.3	13.4	17.9	2.1	31.7	32.1
	2023	761	34.0	41.0	28.1	14.3	16.3	0.3	32.5	35.3
Portugal	2019	628	23.3	45.2	21.9	6.1	21.5	5.2	25.6	21.4
	2023	756	24.8	49.2	17.6	10.3	21.2	1.7	25.6	23.9
Qatar	2019	710	26.8	48.8	17.9	12.2	15.0	6.1	27.8	25.7
	2023	917	35.1	48.0	19.8	21.4	8.6	2.2	33.2	37.2
Singapore	2019	851	62.0	25.6	21.8	48.7	3.7	0.3	59.4	64.8
	2023	935	66.3	24.2	18.1	56.3	1.5	0.0	62.1	70.2
Slovak Republic	2019	608	28.5	43.9	16.2	12.6	26.3	0.9	25.6	31.0
	2023	684	29.8	44.7	20.3	13.1	21.8	0.1	31.8	27.9
Spain	2019	1352	37.4	39.6	23.0	19.1	16.8	1.5	36.7	38.1
	2023	1458	40.5	37.3	18.3	22.4	19.8	2.2	42.0	39.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM2_10 SE61091: Energy in a closed circuit - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	28.1	40.9	20.6	9.7	26.6	2.3	30.4	25.9
	2023	737	31.3	40.5	23.4	12.1	22.9	1.1	31.6	31.1
United Arab Emirates	2019	3710	43.6	38.5	18.0	27.8	12.1	3.7	43.5	43.7
	2023	4983	50.4	38.1	15.8	38.9	5.7	1.5	50.3	50.5
United States	2019	1249	40.9	42.8	23.3	26.0	5.3	2.5	40.7	41.0
	2023	1294	47.0	36.8	23.7	31.3	6.3	1.9	45.3	48.7

International Avg. (25)	2019	20338	35.5	38.6	22.6	16.9	19.7	2.2	35.2	35.8
	2023	24764	37.4	39.0	23.3	19.3	17.1	1.3	36.7	38.0

Abu Dhabi, UAE	2019	1290	31.4	47.3	19.5	16.4	11.8	4.9	33.0	29.8
	2023	1791	41.2	45.8	16.3	29.7	5.8	2.3	43.1	39.5
Dubai, UAE	2019	1055	58.2	28.5	18.4	43.2	8.6	1.4	59.9	56.5
	2023	1336	62.9	27.0	16.9	51.7	3.9	0.5	59.7	65.8
Ontario, Canada	2019	539	37.3	43.8	24.7	21.0	7.9	2.6	37.4	37.1
	2023	628	39.8	37.7	27.8	20.2	12.9	1.3	38.2	40.8
Quebec, Canada	2019	539	41.1	35.9	30.3	20.5	12.7	0.6	39.7	41.8
	2023	555	36.8	41.4	27.3	18.3	11.0	2.0	34.5	38.9

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

Science: Earth Science / Knowing
A_SM2_11 SE61118: Sun, Earth, Moon in space - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	42.3	27.8	39.8	12.3	14.2	2.3	3.6	35.3	49.4
	2023	1997	52.3	22.5	50.3	9.1	14.3	1.6	2.2	48.5	55.8
Chile	2019	577	38.0	30.6	33.0	8.6	14.7	2.8	10.3	33.1	42.1
	2023	657	43.6	25.0	40.7	9.7	17.9	2.8	3.9	37.3	48.3
Chinese Taipei	2019	537	46.6	29.9	46.0	8.8	14.0	0.6	0.7	38.6	53.8
	2023	768	54.7	20.8	54.5	7.7	16.6	0.2	0.2	46.5	61.6
Czech Republic	2019	651	54.8	19.0	52.3	7.6	16.4	2.7	2.0	48.6	61.6
	2023	973	51.4	19.3	50.4	8.2	20.2	1.3	0.6	47.3	55.1
Denmark	2019	460	50.0	23.0	46.1	9.4	13.6	4.8	3.1	46.9	52.5
	2023	743	50.6	25.1	47.8	7.8	13.8	2.5	3.0	47.9	53.6
England	2019	475	58.3	17.2	56.7	9.0	14.3	2.4	0.4	52.4	63.6
	2023	580	58.9	19.4	57.7	7.4	13.4	1.1	1.1	54.7	62.8
Finland	2019	668	51.7	23.9	49.2	8.6	13.5	3.3	1.5	47.2	55.5
	2023	833	54.8	23.4	52.7	7.5	12.7	2.7	1.1	52.8	56.5
France	2019	599	49.9	20.2	45.1	9.2	15.9	6.0	3.5	47.9	52.0
	2023	666	49.9	20.9	45.5	7.5	17.3	5.0	3.7	44.4	55.6
Georgia	2019	535	30.0	26.1	24.6	14.6	16.8	8.2	9.6	28.3	31.4
	2023	623	39.4	28.6	34.8	9.9	15.0	5.0	6.7	34.8	43.5
Germany	2019	487	40.5	31.3	37.6	10.5	13.4	1.9	5.4	39.1	41.9
	2023	630	45.9	28.1	44.2	9.0	15.0	2.7	1.0	42.5	49.8
Hong Kong SAR	2019	422	51.2	19.2	49.8	10.6	17.7	1.5	1.2	46.6	55.1
	2023	596	51.4	22.2	50.4	10.2	15.4	0.6	1.3	41.3	60.3
Hungary	2019	653	56.4	15.8	54.5	8.3	18.0	1.3	2.2	56.1	56.7
	2023	741	50.4	17.3	48.7	9.1	21.6	0.9	2.4	48.5	52.4
Italy	2019	529	43.1	24.6	38.2	10.4	15.5	4.2	7.1	40.3	45.5
	2023	640	42.3	24.7	39.8	10.0	19.5	3.0	2.9	42.4	42.3
Korea, Rep. of	2019	558	51.3	23.8	51.1	8.5	16.2	0.4	0.0	48.6	54.0
	2023	632	54.4	22.9	53.6	7.6	14.4	1.0	0.6	42.5	64.7
Lithuania	2019	540	63.3	16.3	61.6	8.1	11.3	2.0	0.7	64.3	62.4
	2023	646	63.0	14.7	62.5	9.2	12.8	0.5	0.3	59.7	66.3
Netherlands	2019	473	38.0	32.6	37.1	9.9	17.8	2.3	0.3	39.9	36.4
	2023	514	47.9	24.4	46.2	10.2	15.8	2.9	0.6	44.6	50.8
Norway (5)	2019	562	62.9	15.0	60.3	5.3	15.1	1.7	2.4	54.0	71.7
	2023	761	61.7	18.6	60.5	5.9	13.1	1.3	0.6	57.5	65.6
Portugal	2019	628	60.8	16.5	54.3	9.6	8.9	2.5	8.2	64.6	57.5
	2023	757	60.1	17.1	58.1	7.6	13.9	1.0	2.4	59.7	60.6
Qatar	2019	710	45.1	18.5	40.0	11.9	18.3	2.8	8.5	43.0	47.2
	2023	918	47.5	24.6	45.6	8.7	17.1	1.2	2.8	46.3	48.7
Singapore	2019	851	44.9	28.9	44.4	8.6	17.0	0.6	0.5	39.0	51.2
	2023	935	58.0	20.3	57.8	7.5	14.1	0.2	0.0	50.4	65.1
Slovak Republic	2019	608	58.6	20.8	56.5	6.4	12.8	1.7	1.8	53.3	63.4
	2023	683	57.4	18.1	57.2	9.3	15.0	0.1	0.3	53.9	61.0
Spain	2019	1352	62.4	17.1	60.2	8.3	10.8	2.1	1.5	65.2	59.9
	2023	1458	58.7	19.0	55.8	7.0	13.3	1.9	3.0	53.4	63.4

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

Science: Earth Science / Knowing

A_SM2_11 SE61118: Sun, Earth, Moon in space - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	57.5	19.0	53.4	6.8	13.7	3.8	3.4	60.8	54.3
	2023	737	61.1	19.3	57.9	7.3	10.2	4.0	1.3	56.0	65.5
United Arab Emirates	2019	3705	57.3	17.5	52.8	8.2	13.7	2.1	5.7	56.0	58.3
	2023	4984	59.6	19.5	57.7	7.3	12.3	0.8	2.5	57.2	61.9
United States	2019	1249	53.2	19.7	50.0	8.2	16.0	1.9	4.2	49.8	56.3
	2023	1294	53.4	22.1	51.4	7.9	14.9	1.3	2.5	47.4	59.3

International Avg. (25)	2019	20331	50.7	22.2	47.8	9.1	14.8	2.6	3.5	48.0	53.4
	2023	24766	53.1	21.5	51.3	8.3	15.2	1.8	1.9	48.7	57.2

Abu Dhabi, UAE	2019	1287	45.7	22.7	41.4	9.8	16.7	2.8	6.7	46.4	44.5
	2023	1791	51.0	23.1	49.0	9.1	14.8	0.8	3.2	48.9	53.0
Dubai, UAE	2019	1055	73.7	11.1	70.6	5.4	8.6	1.2	3.1	73.0	74.4
	2023	1337	74.3	12.6	72.9	4.2	8.4	0.6	1.2	72.8	75.6
Ontario, Canada	2019	539	38.1	32.3	35.8	12.4	13.5	1.8	4.3	30.8	45.0
	2023	628	48.6	24.6	46.7	9.7	15.0	1.6	2.3	45.8	51.1
Quebec, Canada	2019	539	51.6	21.7	49.3	12.2	12.3	2.4	2.1	45.1	58.8
	2023	555	60.8	18.7	58.6	7.7	11.3	1.3	2.4	57.6	63.9

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

Science: Earth Science / Reasoning

A_SM2_12 SE61097: Natural desert rock formation - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1938	55.2	15.1	52.4	14.2	13.3	0.7	4.2	54.6	55.8
	2023	1997	56.7	15.1	55.0	10.7	16.2	0.4	2.5	56.3	56.9
Chile	2019	577	49.0	18.9	42.6	15.1	10.4	1.9	11.1	49.9	48.2
	2023	657	52.0	21.8	49.7	12.8	11.3	0.1	4.3	52.0	52.0
Chinese Taipei	2019	538	61.2	16.8	60.7	15.8	5.8	0.2	0.7	66.4	56.6
	2023	768	66.4	13.2	65.9	14.4	5.8	0.3	0.4	65.3	67.3
Czech Republic	2019	651	61.4	14.0	59.2	12.1	11.1	0.8	2.8	56.1	67.0
	2023	973	63.5	15.1	63.0	8.9	12.2	0.1	0.6	60.6	66.1
Denmark	2019	460	66.2	13.6	63.2	7.8	10.9	0.4	4.2	64.9	67.3
	2023	743	63.4	13.1	61.0	8.1	13.9	0.6	3.2	61.8	65.1
England	2019	475	65.6	12.2	64.9	6.9	14.9	0.7	0.4	66.1	65.2
	2023	580	57.4	12.0	56.5	13.2	16.8	0.5	1.1	55.3	59.8
Finland	2019	668	68.5	11.8	67.2	7.9	11.0	0.5	1.5	68.5	68.6
	2023	833	65.9	13.7	65.1	10.4	9.6	0.1	1.1	63.7	68.0
France	2019	599	42.6	17.9	39.9	16.3	19.6	1.9	4.4	45.4	39.4
	2023	668	40.7	19.9	38.6	17.2	19.2	0.7	4.5	38.1	43.5
Georgia	2019	537	49.3	16.9	43.2	13.2	14.4	1.3	11.0	50.1	48.6
	2023	623	53.9	14.1	49.6	16.1	12.3	0.6	7.3	52.4	55.2
Germany	2019	487	53.5	17.2	49.4	13.6	12.2	1.9	5.7	53.2	54.4
	2023	630	52.9	15.9	51.9	17.0	13.3	0.4	1.4	53.4	52.3
Hong Kong SAR	2019	422	57.4	15.4	56.4	11.5	14.9	0.0	1.8	53.0	61.2
	2023	596	64.8	9.9	63.9	11.9	12.8	0.3	1.3	64.8	64.9
Hungary	2019	653	51.2	24.2	49.8	14.1	9.1	0.5	2.3	51.7	50.8
	2023	741	50.1	20.4	48.5	15.2	12.8	0.3	2.8	50.9	49.2
Italy	2019	529	62.0	6.1	56.3	8.2	20.2	1.2	8.0	57.3	65.9
	2023	640	57.9	13.8	55.9	13.5	13.2	0.4	3.2	56.1	59.6
Korea, Rep. of	2019	558	73.2	9.0	72.6	8.9	8.6	0.8	0.0	71.8	74.6
	2023	632	78.6	9.2	78.2	7.1	4.9	0.0	0.6	76.4	80.6
Lithuania	2019	540	55.8	16.7	55.3	13.8	13.3	0.2	0.7	55.6	56.1
	2023	646	59.8	14.3	59.6	11.3	14.5	0.1	0.3	54.3	65.3
Netherlands	2019	473	57.9	17.8	57.1	12.2	11.6	1.1	0.3	55.1	60.3
	2023	514	53.2	16.2	52.0	17.0	12.6	1.0	1.2	48.8	57.2
Norway (5)	2019	562	61.8	15.4	59.5	6.5	14.9	1.2	2.4	63.9	59.7
	2023	761	57.9	19.7	57.5	10.5	11.7	0.0	0.6	54.9	60.7
Portugal	2019	628	45.5	17.8	40.9	15.2	15.9	1.4	8.7	45.2	45.8
	2023	757	49.5	19.2	47.9	14.8	14.9	0.3	2.9	48.9	50.3
Qatar	2019	710	42.2	19.9	37.6	17.5	14.0	1.0	9.9	41.7	42.7
	2023	918	47.9	22.9	46.2	14.3	13.1	0.4	3.2	45.2	50.8
Singapore	2019	851	50.6	23.3	50.0	14.1	11.4	0.6	0.7	45.5	56.2
	2023	935	51.4	22.2	51.3	13.8	12.5	0.0	0.1	49.7	53.0
Slovak Republic	2019	608	55.6	20.3	54.3	12.5	10.6	0.4	1.8	57.2	54.2
	2023	684	55.5	22.3	55.2	11.0	11.0	0.3	0.3	57.8	53.1
Spain	2019	1352	48.0	18.3	46.9	13.7	18.7	0.6	1.8	48.4	47.6
	2023	1458	45.3	17.7	43.3	16.4	18.3	0.6	3.7	42.5	47.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Reasoning

A_SM2_12 SE61097: Natural desert rock formation - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	66.8	10.3	63.8	9.2	12.2	0.5	4.0	70.1	63.6
	2023	737	65.1	13.0	63.8	8.2	13.0	0.5	1.4	67.4	63.0
United Arab Emirates	2019	3705	43.4	21.6	40.0	16.4	14.1	1.4	6.3	43.1	43.7
	2023	4984	51.0	20.0	49.3	15.8	11.5	0.5	2.9	51.5	50.6
United States	2019	1249	64.9	9.6	61.0	11.3	12.0	0.9	5.1	66.0	63.9
	2023	1294	64.5	11.3	62.2	10.6	12.4	0.4	3.1	61.0	67.9

International Avg. (25)	2019	20334	56.4	16.0	53.8	12.3	13.0	0.9	4.0	56.0	56.7
	2023	24769	57.0	16.2	55.6	12.8	12.8	0.4	2.2	55.6	58.4

Abu Dhabi, UAE	2019	1288	36.1	24.8	32.9	19.1	14.2	1.6	7.3	37.3	35.0
	2023	1791	44.3	25.0	42.3	16.8	11.3	0.9	3.6	44.4	44.1
Dubai, UAE	2019	1055	55.9	17.1	53.5	13.5	11.6	0.7	3.6	53.4	58.4
	2023	1337	60.1	14.0	59.1	13.5	11.8	0.2	1.6	62.3	58.2
Ontario, Canada	2019	539	54.7	16.0	51.6	13.4	13.3	0.9	4.7	54.8	54.5
	2023	628	54.8	19.2	53.2	8.7	16.0	0.2	2.8	56.4	52.5
Quebec, Canada	2019	539	52.5	16.9	50.8	16.0	13.2	0.7	2.5	53.5	51.6
	2023	555	52.3	14.2	50.7	14.6	17.4	0.5	2.5	49.6	54.9

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

Science: Life Science / Applying

A_SM3_01 SE71031: Order life stages of a butterfly - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	64.4	35.4	64.0	0.4	0.2	62.9	65.9
	2023	1948	61.3	38.6	61.2	0.1	0.1	59.2	63.7
Chile	2019	596	50.5	48.5	49.6	0.8	1.0	45.5	55.2
	2023	645	41.2	58.4	40.8	0.7	0.1	35.4	46.5
Chinese Taipei	2019	533	92.1	7.9	91.7	0.5	0.0	90.9	93.1
	2023	757	85.7	14.3	85.7	0.0	0.0	82.6	89.0
Czech Republic	2019	673	54.1	45.5	53.7	0.8	0.0	54.0	54.3
	2023	980	54.4	45.5	54.3	0.2	0.0	53.4	55.5
Denmark	2019	460	50.2	49.1	49.6	0.9	0.4	46.6	53.5
	2023	743	47.4	52.2	47.0	0.2	0.7	46.7	48.1
England	2019	493	64.2	35.6	63.8	0.6	0.0	61.9	66.4
	2023	571	68.0	31.8	67.7	0.0	0.4	68.7	67.0
Finland	2019	677	55.2	44.5	54.9	0.4	0.2	54.0	56.4
	2023	820	55.1	44.6	54.7	0.8	0.0	55.2	55.0
France	2019	597	43.5	55.9	43.1	0.7	0.4	38.0	47.7
	2023	679	39.4	60.1	39.1	0.9	0.0	34.5	44.1
Georgia	2019	546	22.7	74.6	21.8	2.6	0.9	19.8	25.8
	2023	631	29.7	69.3	29.2	1.2	0.2	29.7	29.6
Germany	2019	492	53.3	46.4	53.0	0.5	0.1	58.0	48.0
	2023	633	47.5	52.2	47.3	0.4	0.2	46.3	48.3
Hong Kong SAR	2019	436	57.7	41.9	57.1	1.0	0.0	52.4	61.9
	2023	581	61.6	38.1	61.1	0.9	0.0	57.6	65.5
Hungary	2019	651	47.2	52.7	47.2	0.1	0.0	48.2	46.4
	2023	751	51.6	48.4	51.6	0.0	0.0	50.6	52.7
Italy	2019	547	48.5	51.2	48.1	0.7	0.0	44.4	53.0
	2023	632	49.5	50.3	49.3	0.4	0.0	45.7	52.8
Korea, Rep. of	2019	554	75.6	24.3	75.3	0.4	0.0	67.0	83.7
	2023	625	78.4	21.6	78.4	0.0	0.0	74.6	82.0
Lithuania	2019	533	42.6	57.1	42.3	0.5	0.0	41.5	43.6
	2023	639	40.3	59.7	40.3	0.0	0.0	41.3	39.3
Netherlands	2019	482	49.5	50.0	48.9	1.1	0.0	47.2	51.6
	2023	500	52.8	47.0	52.5	0.4	0.0	49.0	55.9
Norway (5)	2019	569	49.9	49.0	48.8	2.0	0.2	45.7	53.3
	2023	736	47.5	52.2	47.3	0.5	0.0	44.3	50.8
Portugal	2019	606	42.0	57.4	41.6	1.0	0.0	39.4	44.4
	2023	746	39.5	60.3	39.3	0.0	0.3	36.4	42.6
Qatar	2019	708	56.3	42.3	54.4	2.8	0.6	57.2	55.4
	2023	921	48.6	51.2	48.4	0.3	0.2	49.0	48.2
Singapore	2019	861	95.8	4.2	95.4	0.4	0.0	95.5	96.0
	2023	930	94.7	5.3	94.7	0.0	0.0	94.0	95.4
Slovak Republic	2019	606	50.8	49.1	50.6	0.2	0.0	48.3	53.0
	2023	684	44.2	55.6	44.0	0.3	0.0	43.2	45.1
Spain	2019	1370	42.2	57.2	41.8	0.8	0.2	43.4	41.3
	2023	1467	43.0	56.9	43.0	0.1	0.0	40.4	45.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying
A_SM3_01 SE71031: Order life stages of a butterfly - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	55.8	44.1	55.7	0.2	0.0	46.6	63.7
	2023	736	53.4	46.4	53.1	0.5	0.0	55.8	50.9
United Arab Emirates	2019	3696	60.8	38.7	60.0	1.2	0.2	61.5	60.1
	2023	4952	57.8	42.0	57.6	0.3	0.2	56.5	59.1
United States	2019	1227	70.0	29.7	69.1	0.7	0.5	70.3	69.6
	2023	1331	67.8	32.2	67.7	0.1	0.0	65.2	70.1

International Avg. (25)	2019	20404	55.8	43.7	55.3	0.9	0.2	53.6	57.7
	2023	24638	54.4	45.4	54.2	0.3	0.1	52.6	56.1

Abu Dhabi, UAE	2019	1294	54.2	45.2	53.5	1.2	0.1	53.2	55.3
	2023	1791	53.3	46.3	52.8	0.5	0.4	53.0	53.6
Dubai, UAE	2019	1038	69.4	30.4	68.9	0.7	0.0	73.1	66.1
	2023	1308	68.8	31.2	68.8	0.0	0.0	67.4	70.2
Ontario, Canada	2019	540	67.5	32.3	67.2	0.3	0.1	66.2	68.7
	2023	601	60.9	39.0	60.8	0.1	0.0	58.6	63.5
Quebec, Canada	2019	548	53.4	46.4	53.2	0.4	0.1	50.9	56.2
	2023	563	53.7	46.2	53.5	0.0	0.3	50.7	57.0

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

Science: Life Science / Applying
A_SM3_02 SE71090: Ice cream with fewer germs - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	53.4	46.1	52.9	0.7	0.2	58.1	49.0
	2023	1948	53.6	46.3	53.5	0.0	0.2	58.0	48.5
Chile	2019	596	31.1	67.2	30.4	1.5	1.0	36.8	25.9
	2023	645	39.3	60.3	39.1	0.5	0.1	43.7	35.2
Chinese Taipei	2019	533	49.9	50.1	49.9	0.0	0.0	56.8	44.0
	2023	756	50.1	49.9	50.1	0.0	0.0	57.0	42.8
Czech Republic	2019	673	45.5	53.7	44.8	1.5	0.0	53.2	38.2
	2023	980	47.7	52.3	47.6	0.1	0.0	52.9	42.3
Denmark	2019	460	48.9	50.4	48.4	0.8	0.4	58.3	40.5
	2023	743	58.4	41.3	58.0	0.0	0.8	69.1	47.4
England	2019	493	34.2	65.8	34.2	0.0	0.0	41.3	27.3
	2023	571	69.4	30.5	69.1	0.0	0.4	70.7	68.5
Finland	2019	677	67.6	32.3	67.4	0.1	0.2	74.7	60.4
	2023	820	68.9	31.0	68.8	0.2	0.0	77.4	60.9
France	2019	597	55.5	43.7	54.5	1.5	0.4	59.7	52.4
	2023	679	41.8	58.1	41.7	0.3	0.0	49.2	34.6
Georgia	2019	544	23.2	74.7	22.5	1.8	1.0	28.7	17.4
	2023	631	23.2	75.9	22.9	0.9	0.2	26.1	20.7
Germany	2019	492	15.3	84.4	15.2	0.2	0.1	17.5	12.6
	2023	633	30.8	68.6	30.5	0.7	0.2	39.9	24.1
Hong Kong SAR	2019	435	35.8	64.2	35.8	0.0	0.0	47.3	27.4
	2023	581	54.3	45.7	54.3	0.0	0.0	59.1	49.6
Hungary	2019	651	49.7	50.2	49.6	0.1	0.0	51.5	48.1
	2023	751	59.7	40.1	59.5	0.4	0.0	60.5	59.0
Italy	2019	547	43.7	56.0	43.5	0.5	0.0	50.5	36.2
	2023	632	54.7	45.1	54.6	0.3	0.0	55.1	54.4
Korea, Rep. of	2019	554	75.7	24.2	75.6	0.2	0.0	82.0	69.8
	2023	625	77.5	22.5	77.5	0.0	0.0	80.7	74.4
Lithuania	2019	533	57.5	42.4	57.3	0.3	0.0	62.2	52.9
	2023	639	66.0	34.0	66.0	0.0	0.0	72.0	59.9
Netherlands	2019	482	49.7	49.7	49.2	1.0	0.0	61.6	37.3
	2023	500	52.1	47.7	52.0	0.2	0.0	58.3	45.5
Norway (5)	2019	569	66.5	33.4	66.2	0.0	0.4	80.6	55.0
	2023	736	70.3	29.7	70.2	0.1	0.0	78.6	61.6
Portugal	2019	606	64.5	35.2	64.0	0.8	0.0	67.2	62.2
	2023	746	63.8	36.1	63.6	0.0	0.3	70.2	57.2
Qatar	2019	708	30.9	67.8	30.3	1.2	0.6	33.3	28.6
	2023	921	47.2	52.4	46.9	0.5	0.2	52.9	41.9
Singapore	2019	861	74.7	25.2	74.6	0.2	0.0	80.1	69.2
	2023	930	73.4	26.6	73.4	0.0	0.0	76.1	70.7
Slovak Republic	2019	606	41.8	58.0	41.7	0.2	0.0	48.4	35.8
	2023	683	39.0	60.8	38.9	0.3	0.0	42.8	35.4
Spain	2019	1370	65.1	34.5	64.2	1.2	0.2	78.3	53.5
	2023	1467	54.6	45.2	54.4	0.4	0.0	62.5	46.7

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

Science: Life Science / Applying
A_SM3_02 SE71090: Ice cream with fewer germs - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	60.6	39.2	60.3	0.6	0.0	64.7	57.1
	2023	736	75.5	24.4	75.2	0.3	0.1	81.1	69.9
United Arab Emirates	2019	3695	33.9	65.5	33.6	0.7	0.2	37.6	30.1
	2023	4952	29.2	70.5	29.1	0.2	0.2	33.8	24.7
United States	2019	1227	53.7	45.9	53.2	0.4	0.5	59.2	48.3
	2023	1331	57.0	42.8	56.8	0.4	0.0	62.1	52.4

International Avg. (25)	2019	20400	49.1	50.4	48.8	0.6	0.2	55.6	43.2
	2023	24636	54.3	45.5	54.1	0.2	0.1	59.6	49.1

Abu Dhabi, UAE	2019	1293	23.2	75.8	22.9	1.3	0.1	24.9	21.3
	2023	1791	20.9	78.5	20.8	0.3	0.4	26.0	15.9
Dubai, UAE	2019	1038	51.4	48.5	51.3	0.2	0.0	55.9	47.3
	2023	1308	47.4	52.5	47.3	0.2	0.0	52.6	42.4
Ontario, Canada	2019	540	58.7	40.9	58.2	0.8	0.1	64.7	53.4
	2023	601	67.4	32.6	67.3	0.0	0.2	70.2	64.3
Quebec, Canada	2019	548	45.7	54.1	45.5	0.2	0.2	49.7	41.0
	2023	563	28.6	71.2	28.5	0.0	0.3	34.5	21.6

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

Science: Life Science / Applying
A_SM3_03 SE71048: Why insects lay many eggs - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	31.1	11.3	30.5	21.5	34.8	1.4	0.4	27.3	34.7
	2023	1948	33.3	14.4	33.2	18.0	34.0	0.2	0.2	32.9	33.9
Chile	2019	596	36.1	18.4	34.1	14.1	27.8	4.4	1.1	34.0	38.0
	2023	645	41.7	16.8	40.8	13.0	27.2	1.9	0.3	41.8	41.7
Chinese Taipei	2019	533	29.9	6.4	29.8	8.4	55.0	0.4	0.0	28.2	31.4
	2023	757	36.7	6.5	36.7	9.8	46.9	0.0	0.0	34.4	39.3
Czech Republic	2019	673	39.5	17.4	38.8	13.1	29.0	1.8	0.0	36.6	42.1
	2023	980	40.3	18.4	39.9	11.8	29.1	0.9	0.0	36.8	43.8
Denmark	2019	460	39.0	5.8	37.9	15.5	37.9	2.4	0.4	36.5	41.2
	2023	743	39.4	10.7	38.6	14.5	34.1	1.3	0.8	38.5	40.2
England	2019	493	29.8	11.7	29.2	21.2	36.0	1.8	0.0	28.1	31.4
	2023	571	31.3	12.7	31.0	20.1	35.4	0.4	0.4	29.0	34.4
Finland	2019	677	48.5	6.0	47.3	13.7	30.5	2.1	0.3	46.1	50.9
	2023	820	45.3	9.2	45.1	15.0	30.3	0.4	0.0	43.3	47.2
France	2019	597	38.4	18.9	36.1	13.3	25.6	5.4	0.9	40.6	36.9
	2023	679	40.8	20.7	40.3	11.3	26.3	1.4	0.0	37.1	44.4
Georgia	2019	545	31.9	22.2	30.1	21.5	20.5	4.8	0.9	31.2	32.6
	2023	631	35.9	20.9	34.8	19.2	22.2	2.7	0.3	33.0	38.3
Germany	2019	492	33.0	15.0	32.5	20.3	30.7	1.4	0.1	32.7	33.0
	2023	633	44.4	10.8	43.6	14.7	29.2	1.5	0.2	48.0	42.0
Hong Kong SAR	2019	436	43.6	4.5	43.2	11.3	40.1	0.9	0.0	44.6	43.2
	2023	581	45.8	7.5	45.8	12.8	33.9	0.0	0.0	43.7	47.9
Hungary	2019	651	41.8	15.6	41.2	19.7	22.1	1.3	0.1	38.3	44.8
	2023	751	46.7	13.3	46.5	17.7	22.1	0.4	0.0	45.5	47.9
Italy	2019	547	39.6	12.7	38.8	14.8	31.7	1.8	0.2	39.0	40.2
	2023	632	38.1	14.9	37.7	13.4	32.8	1.2	0.0	37.1	39.0
Korea, Rep. of	2019	554	56.5	7.5	56.2	12.1	23.8	0.4	0.0	54.2	58.6
	2023	625	58.2	8.8	58.0	10.4	22.6	0.3	0.0	54.6	61.7
Lithuania	2019	533	30.9	20.5	30.5	17.2	30.6	1.2	0.0	35.2	26.7
	2023	639	35.8	15.9	35.6	16.0	31.8	0.8	0.0	33.7	38.0
Netherlands	2019	482	50.1	12.0	48.7	14.4	22.0	2.9	0.0	50.6	49.3
	2023	500	41.9	12.9	41.6	20.5	24.2	0.8	0.0	39.8	43.4
Norway (5)	2019	569	31.0	11.7	30.5	14.6	41.5	1.3	0.4	28.3	33.2
	2023	736	33.2	11.9	33.0	17.0	37.5	0.6	0.0	33.6	32.8
Portugal	2019	606	23.3	17.2	22.8	24.1	33.9	1.9	0.0	22.2	24.2
	2023	746	24.2	19.9	23.9	21.1	33.8	0.9	0.3	22.2	26.2
Qatar	2019	708	25.4	17.3	24.5	23.6	31.1	2.7	0.8	22.8	27.9
	2023	921	29.0	14.7	28.7	23.0	32.5	0.6	0.4	30.3	27.8
Singapore	2019	861	64.0	5.0	63.3	9.7	21.0	1.1	0.0	62.1	65.9
	2023	930	61.4	4.2	61.4	11.7	22.8	0.0	0.0	57.7	64.9
Slovak Republic	2019	606	32.3	24.2	32.1	13.2	29.9	0.7	0.0	26.5	37.6
	2023	684	28.6	24.4	28.4	13.9	32.8	0.5	0.0	27.6	29.5
Spain	2019	1370	23.1	18.6	22.5	18.3	38.0	2.4	0.2	23.3	22.8
	2023	1467	27.6	14.9	27.1	19.8	36.3	1.9	0.0	27.6	27.7

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

Science: Life Science / Applying
A_SM3_03 SE71048: Why insects lay many eggs - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	40.0	11.6	39.6	14.2	33.5	1.1	0.0	40.7	39.5
	2023	736	42.8	11.3	42.4	14.2	31.1	1.0	0.1	41.7	43.9
United Arab Emirates	2019	3691	33.6	16.1	33.0	20.2	28.9	1.5	0.4	32.4	34.8
	2023	4952	36.2	15.1	35.9	19.8	28.3	0.5	0.3	35.6	36.8
United States	2019	1227	33.6	11.2	33.0	22.8	31.2	1.3	0.6	30.5	36.7
	2023	1331	37.5	14.6	37.3	22.0	25.4	0.5	0.2	36.8	38.2

International Avg. (25)	2019	20398	37.0	13.6	36.2	16.5	31.5	1.9	0.3	35.7	38.3
	2023	24638	39.0	13.8	38.7	16.0	30.5	0.8	0.1	37.7	40.4

Abu Dhabi, UAE	2019	1290	28.7	20.3	28.0	21.5	27.7	2.1	0.4	24.5	33.0
	2023	1791	30.6	20.4	30.3	19.9	28.4	0.4	0.6	31.0	30.2
Dubai, UAE	2019	1038	38.6	10.0	38.2	20.4	30.6	0.8	0.1	37.3	39.7
	2023	1308	40.2	9.8	40.0	19.4	30.4	0.2	0.2	38.0	42.3
Ontario, Canada	2019	540	26.8	12.0	26.4	25.9	34.0	1.3	0.5	21.8	31.2
	2023	601	30.0	16.0	29.9	20.5	33.2	0.2	0.2	30.3	29.7
Quebec, Canada	2019	548	32.6	8.2	31.9	19.5	38.3	1.9	0.2	29.8	35.8
	2023	563	38.8	13.0	38.6	15.0	32.8	0.3	0.3	38.6	39.2

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

Science: Life Science / Reasoning

A_SM3_04 SE71071: Mice increase after trees are cut down - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	33.5	62.4	31.4	5.6	0.5	35.8	31.4
	2023	1948	19.5	77.5	18.8	3.5	0.2	19.0	20.2
Chile	2019	596	26.2	65.0	23.0	9.8	2.1	24.5	27.7
	2023	645	20.6	72.2	18.8	8.3	0.8	19.8	21.4
Chinese Taipei	2019	533	48.9	48.0	46.0	5.8	0.2	48.7	49.1
	2023	757	38.6	59.2	37.3	3.5	0.0	37.4	40.0
Czech Republic	2019	673	33.8	58.0	29.6	12.5	0.0	37.7	30.2
	2023	980	21.8	72.3	20.1	7.5	0.0	24.2	19.4
Denmark	2019	460	23.8	68.5	21.4	9.7	0.4	27.5	20.7
	2023	742	22.8	73.0	21.6	3.8	1.6	28.2	17.3
England	2019	493	25.1	71.8	24.0	4.3	0.0	27.0	23.0
	2023	571	41.9	55.0	39.7	4.8	0.4	39.2	45.0
Finland	2019	677	39.3	57.5	37.3	4.9	0.3	43.1	35.7
	2023	820	32.0	64.6	30.5	4.9	0.0	36.7	27.7
France	2019	597	16.9	65.8	13.4	19.7	1.0	16.1	17.5
	2023	679	12.9	75.9	11.3	12.2	0.6	16.0	10.0
Georgia	2019	547	23.5	58.9	18.1	21.8	1.2	17.8	29.7
	2023	631	16.6	68.9	13.7	17.0	0.4	20.3	13.5
Germany	2019	492	19.4	67.1	16.2	16.4	0.3	21.9	17.1
	2023	633	21.8	66.8	18.7	14.1	0.5	25.4	19.1
Hong Kong SAR	2019	436	9.4	83.0	8.6	8.4	0.0	5.5	12.5
	2023	581	31.7	62.8	29.1	8.1	0.0	28.2	35.2
Hungary	2019	651	31.5	64.0	29.5	6.4	0.1	33.0	30.3
	2023	751	37.8	59.8	36.4	3.6	0.2	38.0	37.6
Italy	2019	547	24.0	63.1	19.9	16.8	0.2	28.4	19.3
	2023	632	24.6	66.1	21.5	12.3	0.1	23.4	25.5
Korea, Rep. of	2019	554	33.8	63.0	32.2	4.8	0.0	30.7	36.7
	2023	625	42.4	54.5	40.1	5.5	0.0	38.5	46.0
Lithuania	2019	533	22.9	67.9	20.2	11.9	0.0	23.7	22.1
	2023	639	19.2	72.0	17.1	10.9	0.0	22.4	16.0
Netherlands	2019	482	15.4	77.8	14.2	8.0	0.1	13.0	18.0
	2023	500	14.3	81.9	13.7	4.5	0.0	15.3	13.0
Norway (5)	2019	569	21.2	73.7	19.8	6.0	0.4	25.9	17.3
	2023	736	22.1	74.3	21.1	4.6	0.0	23.2	21.0
Portugal	2019	606	23.4	71.8	22.0	5.9	0.3	23.8	23.2
	2023	746	25.9	67.8	23.7	7.9	0.5	26.5	25.3
Qatar	2019	708	7.3	81.4	6.4	11.1	1.2	7.8	6.8
	2023	920	18.8	75.2	17.4	7.0	0.4	15.0	22.7
Singapore	2019	861	35.3	64.0	34.8	1.2	0.0	37.6	32.8
	2023	929	40.8	58.8	40.5	0.7	0.0	39.4	42.2
Slovak Republic	2019	606	24.8	68.6	22.7	8.7	0.0	26.2	23.6
	2023	684	26.8	67.0	24.5	8.5	0.0	33.1	20.9
Spain	2019	1370	24.8	69.1	22.8	7.9	0.2	24.3	25.3
	2023	1466	19.0	70.0	16.5	13.5	0.0	19.9	18.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning

A_SM3_04 SE71071: Mice increase after trees are cut down - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	30.7	63.2	28.0	8.2	0.6	31.9	29.7
	2023	736	27.3	68.6	25.7	5.5	0.2	31.8	22.8
United Arab Emirates	2019	3697	3.2	88.3	2.9	8.2	0.6	3.5	2.7
	2023	4952	23.8	71.9	22.5	5.2	0.4	24.1	23.5
United States	2019	1227	37.6	60.2	36.4	2.5	0.9	39.7	35.7
	2023	1331	36.9	61.8	36.2	1.6	0.4	37.9	36.1

International Avg. (25)	2019	20406	25.4	67.3	23.2	9.1	0.4	26.2	24.7
	2023	24634	26.4	67.9	24.7	7.1	0.3	27.3	25.6

Abu Dhabi, UAE	2019	1294	1.4	88.2	1.2	9.7	0.8	1.0	1.5
	2023	1791	16.5	77.5	15.3	6.4	0.8	16.1	17.0
Dubai, UAE	2019	1038	5.8	91.5	5.6	2.7	0.2	6.8	4.9
	2023	1308	37.0	61.4	36.1	2.3	0.2	37.0	37.0
Ontario, Canada	2019	540	37.4	59.5	35.6	4.5	0.5	39.2	35.9
	2023	601	20.3	77.0	19.6	3.1	0.3	18.6	22.1
Quebec, Canada	2019	548	30.2	64.6	28.0	7.1	0.3	34.0	26.2
	2023	563	17.1	79.2	16.3	4.2	0.3	18.6	15.6

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

Science: Life Science / Reasoning
A_SM3_05 SE71011: Sarah's groups of animals - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	74.2	10.8	8.7	72.3	5.7	1.8	0.7	71.0	77.1
	2023	1948	69.9	16.1	11.9	69.3	1.8	0.3	0.5	71.2	68.5
Chile	2019	596	73.9	11.1	9.6	70.3	4.2	2.3	2.6	73.1	74.6
	2023	645	68.0	12.9	14.6	66.1	3.6	2.1	0.8	67.9	68.1
Chinese Taipei	2019	533	79.5	8.0	11.3	78.8	1.1	0.7	0.2	78.2	80.5
	2023	757	69.9	5.1	22.1	69.8	2.8	0.1	0.0	64.7	75.5
Czech Republic	2019	673	83.9	5.8	7.3	82.9	2.8	1.2	0.0	82.9	84.8
	2023	980	78.3	6.3	13.1	77.3	2.0	1.2	0.0	78.0	78.5
Denmark	2019	460	79.9	8.9	5.8	76.4	4.6	3.3	1.1	82.3	77.6
	2023	743	71.4	12.1	12.4	69.1	3.3	1.4	1.7	69.8	72.9
England	2019	493	84.4	7.7	5.4	82.2	2.1	2.5	0.0	83.4	85.3
	2023	571	75.4	8.8	13.2	74.3	2.2	1.1	0.4	72.0	78.8
Finland	2019	677	87.3	5.2	5.4	86.0	1.9	1.2	0.3	87.9	86.7
	2023	820	79.2	7.5	11.4	78.4	1.7	1.0	0.1	84.2	74.4
France	2019	597	72.3	12.2	10.3	67.9	3.6	4.5	1.5	69.5	74.4
	2023	679	61.0	15.6	19.7	58.4	2.0	3.3	1.0	60.1	61.9
Georgia	2019	546	77.2	7.7	10.7	73.0	3.1	4.1	1.4	78.7	75.7
	2023	631	69.8	10.2	16.1	68.2	3.2	1.7	0.5	68.7	70.7
Germany	2019	492	66.9	7.9	12.1	64.7	12.0	3.0	0.3	65.3	68.1
	2023	633	67.3	7.8	17.6	65.8	6.6	1.5	0.6	66.4	68.0
Hong Kong SAR	2019	436	86.0	5.9	6.2	85.5	1.8	0.5	0.0	82.8	88.3
	2023	581	82.4	6.3	10.3	82.2	1.0	0.2	0.0	80.8	84.0
Hungary	2019	651	77.7	7.0	12.1	76.4	2.9	1.5	0.1	79.2	76.4
	2023	751	71.1	10.2	15.1	70.2	3.2	1.2	0.2	66.9	75.3
Italy	2019	547	84.3	6.0	8.1	82.5	1.2	1.9	0.2	85.4	83.2
	2023	632	86.1	6.4	6.1	85.8	1.4	0.3	0.1	85.8	86.3
Korea, Rep. of	2019	554	93.5	1.9	4.2	93.5	0.3	0.0	0.0	95.4	91.8
	2023	625	84.8	3.6	11.2	84.8	0.4	0.0	0.0	82.0	87.6
Lithuania	2019	533	87.2	2.4	8.4	86.0	1.9	1.3	0.0	89.8	84.7
	2023	639	82.1	4.2	10.8	81.7	2.7	0.5	0.0	86.3	77.9
Netherlands	2019	482	73.4	10.7	8.6	70.1	6.0	4.3	0.2	75.3	71.2
	2023	500	65.3	17.0	13.9	65.0	3.6	0.6	0.0	65.1	65.0
Norway (5)	2019	569	74.6	13.5	8.8	73.0	2.5	1.4	0.7	75.3	74.1
	2023	736	70.9	10.0	15.4	70.1	3.3	1.1	0.1	73.4	68.3
Portugal	2019	606	76.2	11.9	8.1	74.4	3.2	1.7	0.6	72.5	79.4
	2023	746	74.4	9.4	13.2	73.3	2.6	0.9	0.5	74.3	74.4
Qatar	2019	708	54.8	17.3	19.0	51.4	6.0	4.0	2.2	59.6	50.4
	2023	921	62.5	17.0	17.7	61.3	2.1	1.2	0.7	67.0	58.3
Singapore	2019	861	90.6	5.3	3.0	90.1	1.1	0.5	0.0	91.7	89.4
	2023	930	90.2	4.8	3.6	90.1	1.3	0.1	0.0	88.2	92.1
Slovak Republic	2019	606	81.3	4.8	9.0	80.4	4.7	1.0	0.1	81.5	81.1
	2023	684	75.2	9.7	12.5	74.9	2.5	0.4	0.0	75.0	75.4
Spain	2019	1370	85.9	5.8	4.7	83.8	3.2	2.2	0.3	88.2	84.1
	2023	1467	80.2	7.1	9.8	79.0	2.6	1.4	0.1	80.2	80.2

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

Science: Life Science / Reasoning
A_SM3_05 SE71011: Sarah's groups of animals - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	80.1	6.1	9.0	78.3	4.4	1.3	0.9	77.6	82.1
	2023	736	80.7	7.3	8.6	79.2	3.0	1.6	0.3	82.9	78.6
United Arab Emirates	2019	3691	67.5	13.2	13.0	65.2	5.1	2.6	0.9	67.3	67.8
	2023	4952	69.0	13.5	14.4	68.3	2.8	0.4	0.6	70.2	67.9
United States	2019	1227	82.3	7.9	5.4	80.1	3.9	1.2	1.5	82.4	82.3
	2023	1331	74.2	13.8	9.4	73.3	2.3	0.6	0.6	73.7	74.7

International Avg. (25)	2019	20399	79.0	8.2	8.6	77.0	3.6	2.0	0.6	79.1	78.8
	2023	24638	74.4	9.7	13.0	73.4	2.6	1.0	0.4	74.2	74.5

Abu Dhabi, UAE	2019	1291	54.4	17.8	17.5	52.0	8.2	3.3	1.2	55.2	53.8
	2023	1791	58.0	18.6	19.4	57.0	3.2	0.7	1.1	58.9	57.1
Dubai, UAE	2019	1038	84.8	5.3	7.2	83.5	2.5	1.1	0.5	83.1	86.3
	2023	1308	85.2	6.6	6.8	84.8	1.3	0.3	0.2	86.0	84.3
Ontario, Canada	2019	540	73.9	12.1	8.5	72.2	4.8	1.6	0.7	67.4	79.6
	2023	601	68.5	19.6	10.2	67.6	1.3	0.5	0.8	68.6	68.3
Quebec, Canada	2019	548	74.1	8.8	8.1	72.2	8.3	2.0	0.6	73.5	74.6
	2023	563	70.4	13.3	13.7	70.0	2.4	0.2	0.4	72.6	68.1

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

Science: Physical Science / Knowing

A_SM3_06 SE71142: Why open toy parachute falls more slowly - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	61.9	26.8	5.9	4.4	60.3	1.5	1.1	57.9	65.6
	2023	1948	56.0	29.7	7.7	6.2	55.4	0.4	0.6	54.3	58.0
Chile	2019	596	48.1	37.6	5.4	6.1	45.5	2.1	3.2	46.2	49.7
	2023	645	40.1	40.2	9.3	9.3	39.3	0.6	1.3	39.3	40.9
Chinese Taipei	2019	533	79.2	10.9	7.6	2.2	79.1	0.0	0.2	74.9	82.9
	2023	757	80.7	10.5	7.2	1.5	80.5	0.1	0.1	77.1	84.5
Czech Republic	2019	673	71.2	16.8	7.4	4.2	70.1	1.5	0.0	72.2	70.3
	2023	980	67.5	19.9	8.5	3.9	67.1	0.5	0.1	65.3	69.7
Denmark	2019	460	74.0	21.6	1.3	2.0	71.0	2.6	1.4	69.2	78.4
	2023	743	72.4	20.9	3.4	2.5	70.2	0.8	2.3	69.6	75.4
England	2019	493	73.5	19.9	3.6	2.8	73.2	0.2	0.2	72.6	74.4
	2023	571	76.5	18.8	2.3	2.0	75.2	1.2	0.4	70.4	82.4
Finland	2019	677	74.4	21.5	2.2	1.7	73.7	0.6	0.3	67.3	81.4
	2023	820	69.3	25.7	2.6	2.2	69.0	0.5	0.1	63.4	75.0
France	2019	597	66.2	22.9	3.8	6.2	64.5	0.9	1.7	70.2	63.1
	2023	679	55.7	28.5	5.3	9.7	54.7	0.8	1.0	57.3	54.2
Georgia	2019	545	60.3	14.0	14.1	9.7	57.4	3.3	1.4	59.7	60.9
	2023	631	58.7	19.6	15.4	5.3	57.4	1.1	1.1	60.6	57.0
Germany	2019	492	56.8	12.9	26.6	2.8	55.7	1.4	0.6	57.7	55.5
	2023	633	73.1	9.5	16.2	0.7	71.7	1.3	0.6	67.3	77.4
Hong Kong SAR	2019	436	80.2	8.5	8.0	3.3	79.9	0.2	0.1	77.2	82.2
	2023	581	76.6	12.9	8.3	2.2	76.4	0.2	0.0	71.1	81.9
Hungary	2019	651	54.7	22.8	18.4	3.8	54.4	0.4	0.1	54.5	54.8
	2023	751	49.6	21.1	24.0	4.7	49.0	0.5	0.7	48.7	50.6
Italy	2019	547	48.3	35.2	4.9	10.7	47.4	1.6	0.2	46.8	49.9
	2023	632	50.3	32.5	6.3	10.4	49.7	1.0	0.1	47.2	53.0
Korea, Rep. of	2019	554	75.7	19.9	2.5	1.8	75.5	0.3	0.0	64.0	86.7
	2023	625	73.2	22.8	1.1	2.9	73.0	0.2	0.0	66.5	79.6
Lithuania	2019	533	72.3	13.6	4.4	9.4	71.6	1.0	0.0	73.3	71.4
	2023	639	68.8	15.9	2.7	12.4	68.4	0.6	0.0	67.6	70.1
Netherlands	2019	482	63.8	25.9	4.2	5.2	62.2	2.2	0.2	58.3	70.2
	2023	500	55.0	32.5	4.2	8.1	54.9	0.3	0.0	51.4	58.1
Norway (5)	2019	569	71.5	23.7	2.5	1.6	69.8	1.0	1.3	68.8	73.7
	2023	736	72.0	25.5	1.7	0.6	71.4	0.6	0.2	71.7	72.3
Portugal	2019	606	54.4	33.3	5.4	6.3	53.7	0.6	0.7	53.1	55.6
	2023	746	49.6	34.0	8.7	7.2	49.1	0.5	0.5	48.8	50.4
Qatar	2019	708	51.4	31.5	6.6	8.5	49.4	1.3	2.6	50.1	52.7
	2023	921	53.4	30.4	8.0	7.5	52.6	0.6	0.9	52.0	54.7
Singapore	2019	861	61.6	27.7	4.8	5.9	61.4	0.2	0.0	57.2	66.0
	2023	930	64.3	24.8	4.5	6.4	64.3	0.0	0.0	60.8	67.8
Slovak Republic	2019	606	63.8	27.4	3.4	5.1	63.2	0.6	0.2	59.6	67.6
	2023	684	62.9	28.7	2.8	5.2	62.2	1.1	0.1	57.8	67.8
Spain	2019	1370	53.2	33.4	5.5	7.6	52.7	0.6	0.3	52.2	54.0
	2023	1467	46.2	37.6	7.9	7.7	45.7	0.9	0.3	42.6	49.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM3_06 SE71142: Why open toy parachute falls more slowly - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	72.5	9.3	16.0	1.7	71.2	1.0	0.9	66.8	77.3
	2023	736	70.8	11.6	16.4	0.9	70.1	0.7	0.3	71.3	70.3
United Arab Emirates	2019	3692	52.3	31.9	6.3	8.4	51.0	1.3	1.2	49.0	55.5
	2023	4952	54.0	32.4	6.4	6.6	53.4	0.3	0.8	53.2	54.9
United States	2019	1227	59.0	28.4	4.2	7.3	57.4	1.1	1.6	55.2	62.8
	2023	1331	55.1	30.4	5.9	8.0	54.4	0.2	1.0	53.2	56.9

International Avg. (25)	2019	20399	64.0	23.1	7.0	5.2	62.9	1.1	0.8	61.4	66.5
	2023	24638	62.1	24.7	7.5	5.4	61.4	0.6	0.5	59.5	64.5

Abu Dhabi, UAE	2019	1291	44.9	34.0	8.9	10.7	43.7	1.3	1.4	43.4	46.4
	2023	1791	44.9	36.9	8.3	8.7	44.0	0.5	1.6	43.1	46.7
Dubai, UAE	2019	1038	65.9	25.1	3.3	5.2	64.9	0.8	0.7	63.0	68.5
	2023	1308	70.8	23.3	2.7	3.0	70.5	0.2	0.2	70.1	71.5
Ontario, Canada	2019	540	59.1	29.4	6.0	4.3	57.5	1.5	1.3	51.6	65.7
	2023	601	57.2	27.8	7.6	6.8	56.5	0.5	0.8	53.2	61.6
Quebec, Canada	2019	548	65.9	21.7	7.0	4.5	64.3	1.5	0.9	64.3	67.6
	2023	563	54.2	29.0	9.8	6.7	53.7	0.4	0.4	54.8	53.5

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

Science: Physical Science / Knowing

A_SM3_07 SE71138: Temperature of table under hot cup of tea - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	75.1	23.8	72.0	2.9	1.2	75.5	74.8
	2023	1948	78.5	21.0	76.5	1.8	0.8	76.6	80.5
Chinese Taipei	2019	533	68.8	30.0	66.2	3.6	0.2	65.9	71.3
	2023	757	72.7	26.7	71.4	1.7	0.1	73.2	72.3
Czech Republic	2019	673	49.9	46.7	46.5	6.8	0.0	47.7	52.0
	2023	980	72.2	26.6	69.1	4.2	0.1	73.3	71.1
Denmark	2019	460	77.1	21.8	73.5	2.9	1.7	77.3	76.9
	2023	743	76.6	22.5	73.5	1.6	2.4	75.0	78.2
England	2019	493	46.7	52.2	45.6	1.9	0.2	37.9	55.3
	2023	571	80.5	19.1	79.1	1.4	0.4	79.4	81.3
Finland	2019	677	84.6	14.9	81.8	2.9	0.4	88.6	80.6
	2023	820	81.6	17.8	78.9	3.2	0.1	84.5	78.9
France	2019	597	73.3	23.4	64.2	10.6	1.8	72.4	73.9
	2023	679	69.2	28.9	64.8	5.0	1.4	68.8	69.6
Georgia	2019	546	68.8	28.2	62.2	7.9	1.7	67.8	69.9
	2023	631	62.4	34.6	57.6	6.6	1.2	61.5	63.2
Germany	2019	492	79.9	18.8	74.7	5.8	0.6	78.1	81.4
	2023	633	83.3	15.6	77.9	5.4	1.1	84.5	82.4
Hong Kong SAR	2019	436	85.3	14.2	82.2	3.5	0.1	87.0	83.8
	2023	581	84.9	14.4	81.1	4.5	0.0	85.6	84.2
Italy	2019	547	28.0	67.2	26.1	6.2	0.6	27.1	28.9
	2023	632	80.0	18.7	75.1	5.9	0.3	81.3	79.0
Korea, Rep. of	2019	554	93.1	6.8	92.5	0.7	0.0	95.1	91.3
	2023	625	90.6	9.3	88.8	2.0	0.0	94.0	87.1
Lithuania	2019	533	74.7	24.3	71.7	4.0	0.0	75.6	73.8
	2023	639	73.2	26.1	71.4	2.4	0.0	74.1	72.4
Netherlands	2019	482	78.5	20.6	75.5	3.5	0.4	80.7	76.0
	2023	500	71.8	27.8	70.9	1.3	0.0	71.9	71.5
Norway (5)	2019	569	89.4	10.3	87.0	1.3	1.5	92.1	87.3
	2023	736	90.6	9.3	89.5	0.8	0.5	91.3	89.8
Portugal	2019	606	82.8	16.6	79.9	2.6	0.9	79.6	85.5
	2023	746	79.1	20.4	77.1	1.7	0.8	78.7	79.4
Qatar	2019	708	66.3	30.7	60.4	5.9	3.0	66.2	66.3
	2023	921	70.8	27.6	66.8	4.6	1.0	72.3	69.3
Singapore	2019	861	88.3	11.6	87.7	0.7	0.0	87.6	89.0
	2023	930	90.7	9.3	90.5	0.2	0.0	91.6	89.8
Slovak Republic	2019	606	71.2	27.2	67.4	5.1	0.4	74.5	68.3
	2023	684	75.3	23.7	72.4	3.8	0.1	76.3	74.3
Spain	2019	1370	69.2	29.7	66.9	3.0	0.4	70.8	67.9
	2023	1466	72.6	26.2	69.3	3.9	0.6	72.3	72.8
Sweden	2019	562	82.2	16.8	78.0	4.1	1.0	80.0	84.2
	2023	736	88.2	11.3	84.6	3.6	0.5	89.6	86.8
United States	2019	1227	75.0	24.2	72.7	1.3	1.8	74.4	75.8
	2023	1331	76.6	22.9	75.2	0.8	1.0	77.9	75.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM3_07 SE71138: Temperature of table under hot cup of tea - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
International Avg. (22)	2019	15461	73.1	25.5	69.8	4.0	0.8	72.8	73.4
	2023	18289	78.2	20.9	75.5	3.0	0.6	78.8	77.7
Ontario, Canada	2019	540	75.1	24.0	72.4	2.0	1.5	74.6	75.4
	2023	601	80.3	19.2	78.4	1.2	1.2	77.7	83.2
Quebec, Canada	2019	548	74.5	24.2	70.6	4.2	1.1	77.0	71.7
	2023	563	75.3	23.9	73.0	2.7	0.4	76.4	73.7

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

Science: Physical Science / Knowing

A_SM3_08 SE71127: Energy change in a circuit - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	61.9	6.2	27.3	59.9	3.2	1.6	1.8	59.1	64.5
	2023	1948	58.8	9.0	27.6	58.0	4.0	0.6	0.9	57.0	60.9
Chile	2019	596	39.9	11.3	36.2	36.6	7.7	3.9	4.3	35.9	43.5
	2023	645	36.6	12.3	40.9	35.2	7.8	2.3	1.5	33.4	39.5
Chinese Taipei	2019	533	80.6	2.4	15.9	80.0	1.0	0.2	0.5	81.1	80.2
	2023	757	84.4	1.8	13.6	84.2	0.2	0.0	0.1	81.9	86.9
Czech Republic	2019	673	67.2	5.3	23.8	65.3	2.9	2.7	0.0	64.2	69.9
	2023	980	66.0	6.4	24.6	64.7	2.4	1.9	0.1	64.4	67.5
Denmark	2019	460	65.0	5.2	24.5	60.5	2.8	4.5	2.6	60.5	69.0
	2023	743	58.2	7.2	27.1	55.5	5.7	2.0	2.5	56.5	59.8
England	2019	493	69.5	6.9	21.1	68.2	1.9	1.7	0.2	68.8	70.3
	2023	571	67.9	6.2	22.9	66.9	2.5	0.7	0.7	64.7	70.6
Finland	2019	677	71.9	3.1	22.6	70.2	1.7	2.1	0.4	67.5	76.5
	2023	820	69.2	4.7	23.1	68.8	2.8	0.5	0.1	70.4	68.1
France	2019	597	65.1	6.0	23.6	61.8	3.5	2.4	2.6	66.1	64.4
	2023	679	57.2	8.6	29.0	55.2	3.8	1.7	1.7	51.8	62.4
Georgia	2019	543	51.4	14.0	26.5	47.8	4.8	4.9	2.0	50.2	52.6
	2023	631	48.5	10.8	34.1	46.2	4.2	2.8	1.9	53.6	44.1
Germany	2019	492	62.0	7.8	22.7	59.1	5.7	4.1	0.6	61.6	62.0
	2023	633	62.6	7.3	24.1	60.3	4.7	2.3	1.3	60.0	64.5
Hong Kong SAR	2019	436	70.0	2.0	24.1	69.9	3.8	0.0	0.1	70.0	69.8
	2023	581	69.8	2.6	25.0	69.7	2.5	0.2	0.0	67.0	72.6
Hungary	2019	651	58.8	6.1	31.1	58.5	3.9	0.3	0.2	55.6	61.5
	2023	751	57.4	6.4	32.4	56.7	3.3	0.5	0.7	57.2	57.7
Italy	2019	547	60.8	5.0	29.3	57.9	3.1	3.6	1.1	55.6	66.4
	2023	632	58.0	4.1	35.2	57.1	2.0	1.0	0.6	53.9	61.4
Korea, Rep. of	2019	554	76.3	1.8	20.3	75.8	1.5	0.6	0.0	71.0	81.2
	2023	625	71.5	1.6	24.2	71.2	2.7	0.4	0.0	70.5	72.4
Lithuania	2019	533	75.6	3.6	19.0	74.7	1.6	0.6	0.6	71.4	79.7
	2023	639	77.2	1.9	18.4	77.0	2.4	0.3	0.0	78.2	76.2
Netherlands	2019	482	59.8	5.6	28.8	57.5	4.3	3.3	0.4	61.9	57.3
	2023	500	63.9	5.1	27.3	63.2	3.3	1.0	0.1	64.3	63.5
Norway (5)	2019	569	73.5	5.2	17.1	70.6	3.3	2.1	1.8	77.0	70.6
	2023	736	62.9	6.2	25.1	61.8	5.1	1.3	0.5	65.1	60.6
Portugal	2019	606	64.6	5.0	26.4	62.6	2.9	1.9	1.2	60.9	67.9
	2023	746	58.6	5.6	30.9	57.7	4.3	0.7	0.9	55.6	61.7
Qatar	2019	708	62.7	5.3	27.1	59.1	2.8	2.4	3.4	62.3	63.0
	2023	921	59.8	6.5	29.3	58.7	3.6	0.4	1.4	60.9	58.8
Singapore	2019	861	74.3	2.4	21.9	74.0	1.2	0.3	0.2	71.5	77.2
	2023	930	75.3	2.1	20.6	75.3	2.0	0.1	0.0	71.7	78.9
Slovak Republic	2019	606	66.4	5.9	23.6	65.0	3.4	1.7	0.4	64.1	68.4
	2023	684	70.0	3.9	23.6	69.1	2.1	1.2	0.1	62.3	77.4
Spain	2019	1370	60.7	4.6	29.6	58.6	3.8	3.0	0.4	63.7	58.1
	2023	1467	59.8	6.5	29.0	58.4	3.7	1.7	0.6	58.6	61.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM3_08 SE71127: Energy change in a circuit - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	67.6	2.7	24.5	65.5	4.2	2.0	1.1	62.7	71.8
	2023	736	64.0	3.7	27.0	62.6	4.6	1.4	0.6	64.9	63.0
United Arab Emirates	2019	3690	66.3	7.1	22.0	64.3	3.6	1.3	1.7	65.2	67.4
	2023	4952	72.0	5.6	19.4	70.9	2.6	0.4	1.1	72.0	72.0
United States	2019	1227	69.7	5.4	21.7	67.8	2.4	0.8	1.9	65.5	73.7
	2023	1331	64.6	6.1	25.7	63.4	2.9	0.8	1.1	62.7	66.4

International Avg. (25)	2019	20395	65.7	5.4	24.4	63.7	3.2	2.1	1.2	63.7	67.5
	2023	24638	63.8	5.7	26.4	62.7	3.4	1.1	0.7	62.3	65.1

Abu Dhabi, UAE	2019	1291	57.4	10.3	25.9	55.7	5.2	1.0	1.9	56.8	57.9
	2023	1791	63.1	9.4	22.8	61.6	3.9	0.6	1.8	63.4	62.7
Dubai, UAE	2019	1038	81.7	2.3	14.4	79.7	1.2	1.2	1.3	80.0	83.1
	2023	1308	80.9	2.1	15.5	80.5	1.4	0.2	0.3	80.0	81.7
Ontario, Canada	2019	540	61.1	6.3	27.7	59.2	3.6	1.4	1.7	59.2	62.7
	2023	601	58.8	10.2	25.6	57.7	4.7	0.5	1.4	58.0	59.5
Quebec, Canada	2019	548	65.1	5.0	25.7	62.7	2.9	1.8	1.9	64.1	66.1
	2023	563	58.0	8.3	29.5	57.6	3.9	0.4	0.4	54.2	62.2

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

Science: Physical Science / Applying
A_SM3_10 SE71500: Magnets that Anne has - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	46.9	4.7	8.7	37.9	45.4	1.0	2.2	42.2	51.1
	2023	1948	48.3	5.8	10.2	34.7	47.3	0.8	1.1	50.5	45.8
Chile	2019	596	36.4	11.3	15.4	32.2	33.7	2.1	5.3	39.3	33.9
	2023	645	24.5	11.8	25.2	36.7	23.9	0.9	1.5	22.7	26.2
Chinese Taipei	2019	533	71.1	1.1	3.4	24.1	70.6	0.2	0.5	69.9	72.2
	2023	757	74.3	1.4	2.6	21.7	74.2	0.0	0.1	72.1	76.6
Czech Republic	2019	673	34.1	2.7	4.0	58.1	33.5	1.7	0.0	33.1	35.1
	2023	980	28.9	3.1	7.3	60.2	28.7	0.6	0.1	29.3	28.5
Denmark	2019	460	51.4	3.8	7.7	34.7	48.9	1.8	3.1	50.3	52.4
	2023	743	48.1	6.7	8.9	34.4	46.3	1.0	2.7	47.4	48.8
England	2019	493	51.5	5.9	6.5	35.5	50.9	1.0	0.2	48.1	55.0
	2023	571	50.8	2.9	7.9	37.8	50.1	0.5	0.8	48.5	52.7
Finland	2019	677	47.3	4.0	7.8	40.0	46.5	1.3	0.4	41.8	52.9
	2023	820	41.3	4.7	9.6	43.9	40.9	0.8	0.1	37.8	44.5
France	2019	597	28.9	11.7	20.3	34.8	27.2	2.9	3.0	29.6	28.4
	2023	679	34.7	9.5	17.6	35.5	33.2	1.6	2.5	32.9	36.4
Georgia	2019	545	34.2	10.4	11.1	40.7	32.3	3.0	2.4	33.7	34.7
	2023	631	32.2	10.8	14.0	40.4	31.0	1.4	2.4	31.3	33.0
Germany	2019	492	40.4	5.6	15.2	36.9	39.1	2.6	0.6	39.5	41.8
	2023	633	36.4	5.1	13.1	43.6	35.4	0.9	1.8	35.6	37.2
Hong Kong SAR	2019	436	46.5	4.8	8.6	39.2	45.8	1.4	0.1	44.3	48.5
	2023	581	54.3	4.3	10.5	30.7	54.1	0.4	0.0	51.8	56.7
Hungary	2019	651	39.3	4.4	8.0	47.9	39.0	0.5	0.3	38.2	40.2
	2023	751	41.1	3.4	7.3	47.6	40.7	0.2	0.7	38.1	44.2
Italy	2019	547	41.1	6.6	8.1	41.8	39.5	2.4	1.6	41.3	41.0
	2023	632	42.4	6.4	8.1	41.9	41.6	1.4	0.6	46.0	39.4
Korea, Rep. of	2019	554	81.5	0.6	3.7	14.0	80.6	1.0	0.0	77.1	85.5
	2023	625	82.9	0.8	2.6	13.6	82.5	0.5	0.0	78.3	87.3
Lithuania	2019	533	60.2	3.7	5.5	30.3	59.7	0.2	0.6	60.0	60.4
	2023	639	55.9	2.4	6.2	35.5	55.9	0.0	0.0	55.0	56.8
Netherlands	2019	482	51.0	4.8	7.5	34.7	49.0	2.5	1.5	52.9	48.8
	2023	500	43.2	4.9	14.2	37.6	43.1	0.1	0.1	40.4	45.6
Norway (5)	2019	569	58.7	2.2	5.8	32.0	56.8	1.5	1.8	59.4	58.2
	2023	736	50.2	5.4	7.5	36.6	49.8	0.1	0.6	48.2	52.3
Portugal	2019	606	45.2	6.4	9.9	36.7	43.6	1.9	1.6	42.7	47.4
	2023	746	43.6	6.1	12.4	36.4	42.4	1.5	1.2	43.8	43.5
Qatar	2019	708	45.1	8.3	11.0	32.3	42.3	2.3	3.8	47.2	43.1
	2023	921	47.0	6.3	12.2	33.0	45.7	0.7	2.0	45.5	48.3
Singapore	2019	861	89.7	1.5	1.3	7.5	89.2	0.3	0.2	90.5	88.9
	2023	930	88.3	0.7	2.9	8.1	88.3	0.0	0.0	88.7	88.0
Slovak Republic	2019	606	65.2	2.6	3.6	28.3	64.7	0.3	0.5	67.0	63.4
	2023	684	60.9	3.6	3.9	31.5	60.7	0.1	0.2	61.9	60.0
Spain	2019	1370	42.9	7.8	12.4	35.0	41.4	3.0	0.4	42.5	43.2
	2023	1467	37.1	10.7	12.1	38.9	36.5	1.0	0.7	35.5	38.8

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

Science: Physical Science / Applying
A_SM3_10 SE71500: Magnets that Anne has - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	60.3	2.3	3.9	32.6	58.8	1.2	1.3	57.4	62.8
	2023	736	58.6	3.0	4.4	33.4	57.7	0.6	0.8	55.4	61.8
United Arab Emirates	2019	3689	55.9	7.6	10.8	24.3	54.0	1.4	1.9	56.6	55.1
	2023	4952	54.5	6.5	10.6	27.6	53.5	0.4	1.4	54.0	54.9
United States	2019	1227	53.5	4.7	6.4	34.1	51.9	0.7	2.3	54.5	52.5
	2023	1331	47.4	4.8	8.3	38.7	46.7	0.1	1.3	44.5	50.1

International Avg. (25)	2019	20396	51.1	5.2	8.3	33.8	49.8	1.5	1.4	50.4	51.9
	2023	24638	49.1	5.2	9.6	35.2	48.4	0.6	0.9	47.8	50.3

Abu Dhabi, UAE	2019	1291	43.7	11.4	16.6	26.4	42.3	1.2	2.1	46.6	40.5
	2023	1791	43.6	8.9	15.9	30.0	42.4	0.6	2.3	44.2	43.0
Dubai, UAE	2019	1038	71.1	2.1	4.1	21.9	69.3	1.0	1.6	66.5	75.2
	2023	1308	68.8	2.1	5.5	23.4	68.4	0.2	0.4	67.8	69.7
Ontario, Canada	2019	540	46.3	4.3	7.0	40.6	44.7	1.1	2.2	43.4	48.7
	2023	601	50.6	5.9	7.1	35.1	49.2	0.8	2.0	52.9	48.1
Quebec, Canada	2019	548	46.4	5.3	13.0	33.6	44.8	0.9	2.5	41.5	51.3
	2023	563	42.3	6.1	17.4	33.5	41.8	0.8	0.4	47.2	36.5

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

Science: Earth Science / Applying
A_SM3_12 SE71222: Fish fossil in the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	59.1	37.7	54.5	5.0	2.8	57.8	60.3
	2023	1948	59.9	37.6	56.2	4.6	1.6	60.7	59.0
Chile	2019	596	50.9	40.7	42.1	10.6	6.6	49.1	52.4
	2023	645	53.8	41.2	47.9	8.9	1.9	45.3	61.1
Chinese Taipei	2019	533	61.3	35.0	55.3	9.2	0.5	58.3	63.8
	2023	757	60.2	37.4	56.4	6.1	0.1	55.1	65.6
Czech Republic	2019	673	68.8	26.2	57.9	15.4	0.5	65.7	71.6
	2023	980	40.5	54.2	36.9	8.3	0.7	36.7	44.2
Denmark	2019	460	63.3	32.4	55.8	8.2	3.5	57.9	68.1
	2023	743	39.0	56.8	36.3	4.1	2.9	39.5	38.4
England	2019	493	18.3	77.3	17.3	5.0	0.4	23.1	13.6
	2023	571	69.3	29.7	67.0	1.9	1.4	62.6	75.7
Finland	2019	677	67.8	29.6	62.2	7.2	1.0	65.7	69.8
	2023	820	53.3	43.7	49.9	6.3	0.1	55.2	51.4
France	2019	597	55.6	33.0	41.2	21.3	4.5	52.9	57.5
	2023	679	50.2	41.4	41.8	12.6	4.2	45.7	54.6
Georgia	2019	545	42.7	43.6	32.5	20.2	3.8	42.2	43.3
	2023	631	34.1	51.1	26.4	17.7	4.7	34.3	33.9
Germany	2019	492	4.1	77.7	3.3	16.5	2.5	5.4	2.9
	2023	633	54.5	38.7	46.3	12.8	2.1	54.8	54.3
Hong Kong SAR	2019	436	52.6	43.2	47.9	8.5	0.3	41.9	61.2
	2023	581	35.8	58.1	32.3	9.5	0.0	30.2	41.3
Hungary	2019	651	63.2	34.0	58.5	7.2	0.3	65.5	61.3
	2023	751	62.3	36.1	59.6	3.5	0.8	53.4	71.1
Italy	2019	547	22.3	65.6	18.9	12.5	3.0	24.4	20.2
	2023	632	26.2	65.2	23.1	10.5	1.2	28.5	24.3
Korea, Rep. of	2019	554	80.8	18.8	79.2	2.0	0.0	76.9	84.5
	2023	625	59.3	39.8	58.0	2.0	0.2	60.2	58.4
Lithuania	2019	533	53.3	42.7	48.8	7.9	0.6	50.5	55.9
	2023	639	66.5	31.3	62.0	6.7	0.0	64.6	68.3
Netherlands	2019	482	56.4	40.0	51.6	6.6	1.8	53.2	59.4
	2023	500	56.6	40.7	53.0	5.9	0.4	49.3	63.4
Norway (5)	2019	569	65.8	31.5	60.7	5.5	2.3	64.2	67.1
	2023	736	65.4	33.1	62.5	3.8	0.6	63.6	67.2
Portugal	2019	606	41.6	51.7	36.9	9.0	2.5	33.0	49.2
	2023	746	49.7	44.9	44.4	8.1	2.6	45.6	53.8
Qatar	2019	708	36.4	53.2	30.4	12.2	4.2	35.6	37.0
	2023	920	14.7	76.7	13.2	7.4	2.6	14.8	14.7
Singapore	2019	861	57.6	41.6	56.5	1.7	0.2	52.9	62.6
	2023	930	68.2	31.6	67.7	0.7	0.0	62.3	73.9
Slovak Republic	2019	606	48.0	48.4	44.7	5.8	1.2	44.0	51.7
	2023	684	49.9	46.1	46.0	7.4	0.5	50.9	49.0
Spain	2019	1370	54.2	40.9	48.5	10.0	0.6	48.7	58.9
	2023	1466	52.4	41.3	45.5	11.7	1.5	52.3	52.6

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

Science: Earth Science / Applying
A_SM3_12 SE71222: Fish fossil in the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	55.5	38.2	47.6	11.8	2.4	50.0	59.7
	2023	736	29.9	64.4	27.5	7.3	0.8	25.5	34.3
United Arab Emirates	2019	3696	44.1	50.1	39.5	8.0	2.4	41.9	46.3
	2023	4952	50.3	46.3	46.8	5.2	1.8	48.1	52.4
International Avg. (24)	2019	19176	51.0	43.0	45.5	9.5	2.0	48.4	53.3
	2023	23305	50.1	45.3	46.1	7.2	1.4	47.5	52.6
Abu Dhabi, UAE	2019	1293	30.0	61.3	26.3	9.8	2.5	28.0	32.0
	2023	1791	38.8	56.6	35.8	5.0	2.7	35.7	41.8
Dubai, UAE	2019	1038	60.5	37.4	57.3	3.4	2.0	58.2	62.6
	2023	1308	66.7	32.4	64.8	2.3	0.5	62.6	70.6
Ontario, Canada	2019	540	62.1	35.0	57.3	4.7	3.0	62.5	61.8
	2023	601	65.2	32.5	61.0	4.5	2.0	65.5	65.0
Quebec, Canada	2019	548	49.1	46.6	44.9	5.6	2.9	47.3	50.7
	2023	563	47.3	49.0	43.9	6.2	0.9	47.9	46.2

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

Science: Earth Science / Knowing

A_SM3_13 SE71252: Diagram representing the Solar System - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1929	60.2	57.2	19.1	13.6	5.1	1.4	3.6	57.6	62.5
	2023	1948	61.5	60.0	19.5	14.1	3.9	0.4	2.1	61.3	61.9
Chile	2019	596	57.8	51.1	20.6	15.6	1.1	3.1	8.5	59.6	56.2
	2023	645	56.3	54.5	24.4	14.8	3.1	0.7	2.6	54.9	57.6
Chinese Taipei	2019	533	61.2	60.8	20.2	12.5	5.9	0.2	0.5	56.6	65.1
	2023	757	65.9	65.6	18.0	10.1	6.0	0.0	0.3	59.4	72.7
Czech Republic	2019	673	69.3	67.4	17.1	7.7	5.0	1.5	1.3	71.1	67.7
	2023	980	67.7	66.6	19.2	9.7	2.9	0.7	0.9	66.6	68.8
Denmark	2019	460	66.0	61.2	16.7	11.7	3.1	2.5	4.7	68.1	64.0
	2023	743	62.4	58.7	21.2	11.7	2.5	2.4	3.5	60.4	64.5
England	2019	493	66.1	64.4	16.1	12.9	4.0	1.3	1.3	65.9	66.4
	2023	571	71.4	69.6	14.6	9.5	3.7	1.3	1.4	67.4	75.4
Finland	2019	677	66.0	64.3	17.7	10.9	4.4	1.6	1.0	64.9	67.2
	2023	820	61.4	60.5	21.4	12.2	4.4	1.2	0.3	57.8	64.8
France	2019	597	59.9	54.2	19.0	11.8	5.5	2.9	6.6	55.1	63.5
	2023	679	59.8	54.7	19.9	12.4	4.4	2.0	6.6	56.8	62.8
Georgia	2019	544	47.0	42.8	24.1	16.2	7.9	3.2	5.8	45.2	49.0
	2023	631	49.1	44.4	25.7	15.6	4.6	2.8	6.8	48.0	50.1
Germany	2019	492	56.8	53.2	18.3	14.6	7.7	1.7	4.5	52.3	60.6
	2023	633	61.2	58.1	19.4	12.8	4.6	2.5	2.5	60.7	61.8
Hong Kong SAR	2019	436	68.2	67.8	18.5	8.1	4.9	0.4	0.3	59.2	75.3
	2023	581	69.5	68.8	19.9	7.2	3.1	0.6	0.4	64.2	74.7
Hungary	2019	651	63.3	62.2	18.9	12.6	4.6	0.6	1.1	64.4	62.3
	2023	751	61.7	60.7	24.1	9.2	4.3	0.4	1.2	61.2	62.2
Italy	2019	547	61.2	55.7	16.7	11.8	6.7	3.6	5.5	58.1	64.8
	2023	632	62.1	59.0	19.1	12.5	4.3	2.7	2.4	60.2	63.8
Korea, Rep. of	2019	554	64.7	64.1	16.4	12.6	5.9	0.6	0.5	57.9	71.2
	2023	625	65.8	65.2	14.8	12.9	6.2	0.7	0.2	62.2	69.2
Lithuania	2019	533	63.0	61.3	15.2	12.6	8.2	1.5	1.2	59.2	66.7
	2023	639	69.2	69.1	15.8	10.5	4.4	0.1	0.0	65.0	73.4
Netherlands	2019	482	50.3	48.1	23.6	14.5	9.4	2.2	2.2	49.1	51.2
	2023	500	59.6	58.5	19.8	14.0	5.7	1.3	0.6	56.9	62.2
Norway (5)	2019	569	73.1	69.9	15.5	6.9	3.4	1.5	2.9	72.1	73.9
	2023	736	71.3	70.1	14.3	11.3	2.5	0.8	0.9	74.0	68.5
Portugal	2019	606	74.0	69.8	14.7	7.8	2.1	1.5	4.2	75.4	72.7
	2023	746	67.2	63.6	16.1	13.1	1.9	1.7	3.6	67.7	66.6
Qatar	2019	708	58.6	54.4	18.2	15.1	5.0	1.9	5.4	62.0	55.5
	2023	921	60.4	57.4	18.8	14.1	4.6	1.8	3.2	60.0	60.9
Singapore	2019	861	72.2	71.3	18.1	7.1	2.3	0.9	0.3	68.9	75.6
	2023	930	82.2	82.2	11.5	4.7	1.5	0.0	0.0	81.1	83.3
Slovak Republic	2019	606	71.7	70.7	14.6	10.5	2.8	0.3	1.2	75.5	68.1
	2023	684	70.4	69.3	18.1	8.5	2.5	0.9	0.7	69.7	71.1
Spain	2019	1370	70.6	68.7	16.9	9.3	2.4	1.1	1.7	75.3	66.5
	2023	1467	68.3	65.8	17.6	10.4	2.5	1.6	2.1	67.2	69.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SM3_13 SE71252: Diagram representing the Solar System - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	562	69.8	66.3	14.3	10.3	4.1	1.8	3.2	65.8	73.1
	2023	736	72.7	70.3	14.7	8.4	3.3	1.8	1.5	67.3	78.4
United Arab Emirates	2019	3689	64.9	61.4	17.7	11.8	3.6	1.9	3.6	67.2	62.7
	2023	4952	67.7	65.5	18.5	9.9	2.9	0.9	2.3	67.7	67.7
United States	2019	1227	65.6	62.2	16.8	12.2	3.7	1.6	3.6	62.7	68.4
	2023	1331	63.1	61.4	20.5	11.7	3.7	1.0	1.8	61.9	64.3

International Avg. (25)	2019	20395	64.1	61.2	17.8	11.6	4.7	1.6	3.0	62.8	65.2
	2023	24638	65.1	63.2	18.7	11.3	3.7	1.2	1.9	63.2	67.0

Abu Dhabi, UAE	2019	1290	54.2	51.1	22.5	14.8	6.0	2.0	3.7	57.4	50.9
	2023	1791	58.2	55.5	23.3	12.3	4.2	1.4	3.2	58.9	57.6
Dubai, UAE	2019	1038	79.4	75.4	11.5	6.8	1.4	2.0	3.0	80.5	78.4
	2023	1308	79.8	78.9	12.2	6.2	1.5	0.3	0.8	79.3	80.4
Ontario, Canada	2019	540	57.5	54.9	19.5	14.8	6.2	1.1	3.4	55.6	59.2
	2023	601	58.8	57.4	22.4	13.3	4.4	0.4	2.1	59.5	58.2
Quebec, Canada	2019	548	65.3	61.4	16.7	12.5	3.4	1.9	4.1	63.1	67.3
	2023	563	63.3	62.3	16.6	16.0	3.4	0.1	1.6	62.6	64.6

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

Science: Life Science / Applying

A_SM4_02 SE71033: Seedling of a bean plant - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	55.0	19.0	6.2	19.0	54.0	1.2	0.6	55.2	54.8
	2023	1962	54.4	17.2	5.3	22.8	54.1	0.3	0.2	54.3	54.4
Chile	2019	581	44.8	18.0	4.8	31.4	44.1	1.5	0.2	46.2	43.6
	2023	653	56.4	16.1	6.6	20.4	55.7	0.7	0.5	54.2	58.7
Chinese Taipei	2019	537	50.8	28.2	2.8	18.2	50.8	0.0	0.0	53.3	48.6
	2023	760	57.6	19.2	3.9	19.2	57.5	0.2	0.0	57.2	58.1
Czech Republic	2019	663	78.7	12.9	1.9	6.5	78.4	0.4	0.0	80.4	77.0
	2023	974	76.2	12.8	1.6	9.4	76.0	0.2	0.0	78.5	74.1
Denmark	2019	462	59.4	19.0	9.3	11.5	58.1	1.9	0.2	64.0	55.7
	2023	734	69.3	15.5	7.5	7.5	69.0	0.5	0.0	71.1	67.6
England	2019	481	55.5	17.5	4.1	22.5	55.1	0.5	0.3	54.7	56.3
	2023	574	57.2	18.9	5.3	18.5	57.1	0.1	0.0	56.0	58.1
Finland	2019	673	62.9	18.6	3.5	14.8	62.7	0.3	0.0	67.5	59.2
	2023	814	64.9	17.3	4.6	13.0	64.5	0.5	0.0	66.4	63.4
France	2019	592	68.7	14.7	2.6	13.5	67.7	1.5	0.0	70.7	66.8
	2023	671	65.4	12.1	2.7	19.5	64.8	0.8	0.1	62.6	68.4
Georgia	2019	540	63.3	13.5	8.1	14.1	61.3	2.6	0.4	66.3	60.6
	2023	635	66.2	16.0	5.1	12.5	65.7	0.5	0.2	68.7	63.2
Germany	2019	483	73.8	11.0	3.0	11.9	73.2	0.3	0.5	77.8	70.1
	2023	641	69.3	9.9	5.6	15.0	68.7	0.7	0.2	72.1	66.5
Hong Kong SAR	2019	431	55.7	28.9	3.2	12.0	55.5	0.2	0.2	51.4	59.6
	2023	585	53.4	20.9	5.7	20.0	53.4	0.0	0.0	53.4	53.4
Hungary	2019	664	53.1	11.0	3.4	32.4	53.0	0.1	0.2	55.5	51.1
	2023	739	51.5	11.3	3.0	34.1	51.4	0.0	0.1	54.1	49.0
Italy	2019	528	55.2	12.9	6.9	24.6	54.5	1.0	0.2	56.3	54.0
	2023	633	53.1	19.2	5.5	21.9	52.8	0.3	0.3	52.9	53.3
Korea, Rep. of	2019	564	71.7	20.0	4.0	4.2	71.6	0.2	0.0	72.5	71.2
	2023	619	77.2	15.2	3.4	4.1	77.0	0.3	0.0	78.4	75.9
Lithuania	2019	526	65.7	11.3	1.9	20.9	65.4	0.4	0.1	65.0	66.3
	2023	652	72.0	10.1	2.5	15.4	72.0	0.0	0.0	77.7	67.3
Netherlands	2019	478	62.0	15.9	5.2	16.2	60.8	1.9	0.0	63.1	61.0
	2023	513	57.7	17.1	7.6	17.1	57.2	0.9	0.0	54.9	59.6
Norway (5)	2019	570	67.3	14.2	4.4	13.6	66.4	1.1	0.3	64.4	70.2
	2023	755	65.2	15.2	4.9	14.5	64.9	0.3	0.1	66.7	63.6
Portugal	2019	627	57.4	11.2	2.0	29.1	57.2	0.2	0.3	57.0	57.8
	2023	751	62.5	10.4	2.6	24.4	62.5	0.1	0.0	64.5	60.7
Qatar	2019	707	39.4	25.5	11.8	22.3	38.8	1.3	0.3	40.3	38.5
	2023	912	39.5	24.6	14.2	21.3	39.1	0.7	0.2	39.8	39.1
Singapore	2019	848	67.2	18.1	2.1	12.3	66.7	0.8	0.0	66.2	68.2
	2023	933	64.7	17.8	3.0	14.5	64.7	0.0	0.0	64.2	65.2
Slovak Republic	2019	606	75.0	10.1	3.2	11.5	74.3	0.9	0.0	77.2	72.6
	2023	680	74.1	13.3	2.4	10.2	74.0	0.1	0.0	72.8	75.4
Spain	2019	1349	51.8	20.2	8.8	18.9	51.6	0.4	0.0	56.4	48.0
	2023	1455	54.0	20.8	6.6	18.5	53.9	0.2	0.0	52.1	56.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SM4_02 SE71033: Seedling of a bean plant - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	66.1	18.4	3.9	11.3	65.4	0.7	0.3	67.6	64.5
	2023	734	71.4	16.6	5.3	6.5	70.9	0.3	0.3	73.3	69.5
United Arab Emirates	2019	3649	42.3	20.5	8.9	27.7	41.9	0.6	0.4	43.6	41.0
	2023	4937	48.8	18.9	6.6	25.1	48.3	0.2	0.9	49.8	47.9
United States	2019	1250	51.9	14.8	5.2	27.4	51.2	0.6	0.7	50.9	52.9
	2023	1294	53.8	16.2	6.3	23.5	53.5	0.2	0.4	52.4	55.3

International Avg. (25)	2019	20328	59.8	17.0	4.8	17.9	59.2	0.8	0.2	60.9	58.8
	2023	24610	61.4	16.1	5.1	17.1	61.2	0.3	0.1	61.9	60.9

Abu Dhabi, UAE	2019	1267	37.7	27.1	11.5	23.1	37.3	0.8	0.1	39.0	36.0
	2023	1774	45.8	24.6	8.7	20.2	45.1	0.2	1.2	48.6	43.0
Dubai, UAE	2019	1028	52.3	16.0	6.5	25.0	52.2	0.3	0.1	53.2	51.5
	2023	1308	56.2	15.1	3.9	24.6	56.0	0.0	0.3	55.7	56.6
Ontario, Canada	2019	543	50.7	20.1	7.3	20.7	49.5	1.3	1.2	47.4	53.9
	2023	608	49.1	19.0	4.8	26.8	48.8	0.3	0.3	48.2	50.1
Quebec, Canada	2019	545	62.1	18.6	2.9	16.0	61.6	0.7	0.2	66.0	58.5
	2023	557	62.1	14.7	3.9	19.2	62.1	0.0	0.1	61.6	62.6

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

Science: Life Science / Applying
A_SM4_03 SE71065: Complete the food chain - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	62.8	36.5	61.6	1.2	0.7	55.0	70.3
	2023	1962	56.4	43.3	56.0	0.2	0.5	51.3	62.0
Chile	2019	581	54.9	43.8	53.2	2.8	0.2	47.7	61.5
	2023	653	46.5	52.6	45.7	0.9	0.8	42.0	51.2
Chinese Taipei	2019	537	68.8	31.1	68.8	0.1	0.0	65.8	71.7
	2023	760	62.0	38.0	62.0	0.0	0.0	53.4	70.5
Czech Republic	2019	663	68.2	31.5	67.6	0.9	0.0	63.9	72.3
	2023	974	56.7	43.1	56.5	0.3	0.0	49.7	63.3
Denmark	2019	462	67.9	31.7	66.9	1.2	0.2	62.8	72.0
	2023	734	59.9	39.9	59.6	0.2	0.3	52.2	67.6
England	2019	481	66.8	32.9	66.0	0.8	0.3	64.9	68.6
	2023	574	63.2	36.8	63.1	0.1	0.0	59.9	67.1
Finland	2019	673	59.5	39.8	58.6	1.6	0.0	56.3	62.0
	2023	814	50.4	49.3	50.0	0.7	0.0	44.4	56.1
France	2019	592	54.0	44.8	52.5	2.7	0.0	46.1	61.4
	2023	672	49.6	50.0	49.1	0.7	0.2	40.6	59.5
Georgia	2019	540	42.2	55.1	40.2	4.2	0.4	38.5	45.3
	2023	635	33.6	64.9	32.8	2.1	0.2	27.8	40.3
Germany	2019	483	51.8	47.2	50.7	1.5	0.5	46.4	57.1
	2023	641	44.7	55.0	44.5	0.1	0.4	37.4	51.9
Hong Kong SAR	2019	431	71.1	28.8	70.8	0.2	0.2	68.4	73.5
	2023	585	58.1	41.9	58.1	0.0	0.0	53.7	62.2
Hungary	2019	664	71.9	28.0	71.5	0.4	0.2	68.8	74.5
	2023	739	53.0	46.9	52.9	0.1	0.1	48.4	57.5
Italy	2019	528	54.1	45.1	53.1	1.6	0.2	46.7	61.8
	2023	633	46.7	53.1	46.5	0.1	0.3	34.9	57.3
Korea, Rep. of	2019	564	73.7	26.1	73.2	0.7	0.0	64.2	82.6
	2023	619	55.8	44.2	55.8	0.0	0.0	45.1	68.6
Lithuania	2019	526	72.3	27.6	71.8	0.5	0.1	68.2	75.9
	2023	652	70.3	29.7	70.3	0.0	0.0	66.2	73.7
Netherlands	2019	478	66.7	33.0	66.0	1.0	0.0	59.1	73.7
	2023	513	54.4	45.5	54.3	0.2	0.0	43.9	64.5
Norway (5)	2019	570	55.2	43.9	54.2	1.6	0.3	48.4	62.1
	2023	755	42.3	57.4	42.1	0.3	0.1	35.3	50.0
Portugal	2019	627	54.7	44.9	54.1	0.8	0.3	49.6	59.4
	2023	751	57.9	42.1	57.9	0.0	0.0	47.6	67.1
Qatar	2019	707	43.2	54.6	41.6	3.2	0.6	37.3	49.2
	2023	912	36.1	63.3	35.8	0.7	0.2	31.8	40.2
Singapore	2019	848	56.9	43.0	56.8	0.2	0.0	48.6	65.4
	2023	933	49.4	50.6	49.4	0.0	0.0	41.1	58.0
Slovak Republic	2019	606	64.0	35.5	63.1	1.4	0.0	61.1	67.1
	2023	680	51.3	48.6	51.2	0.2	0.0	47.8	55.0
Spain	2019	1349	60.3	39.3	59.6	0.8	0.2	52.5	66.8
	2023	1455	47.7	52.1	47.6	0.2	0.0	41.3	54.2

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

Science: Life Science / Applying
A_SM4_03 SE71065: Complete the food chain - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	58.2	40.9	57.0	1.9	0.3	50.4	66.2
	2023	734	49.9	49.8	49.7	0.2	0.3	42.5	57.6
United Arab Emirates	2019	3653	47.7	51.4	46.9	1.4	0.4	43.7	51.8
	2023	4937	47.9	51.5	47.4	0.2	0.9	41.7	53.6
United States	2019	1250	64.7	34.8	63.8	0.5	0.8	62.5	66.7
	2023	1294	55.9	43.8	55.6	0.2	0.4	46.5	65.7

International Avg. (25)	2019	20332	60.5	38.8	59.6	1.3	0.2	55.1	65.6
	2023	24611	52.0	47.7	51.8	0.3	0.2	45.1	59.0

Abu Dhabi, UAE	2019	1272	40.1	58.8	39.3	1.8	0.1	33.9	46.6
	2023	1774	38.7	60.3	38.1	0.3	1.2	35.7	41.6
Dubai, UAE	2019	1028	63.0	36.9	62.7	0.3	0.1	60.5	65.4
	2023	1308	63.9	36.0	63.6	0.1	0.3	56.2	71.0
Ontario, Canada	2019	543	64.1	35.1	62.6	1.2	1.2	56.6	71.5
	2023	608	59.4	40.4	59.1	0.0	0.5	53.3	66.4
Quebec, Canada	2019	545	60.7	38.6	59.7	1.3	0.4	48.6	71.0
	2023	557	51.0	48.9	50.8	0.2	0.1	45.1	57.3

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

Science: Life Science / Applying

A_SM4_04 SE71025: What happened to strawberry plant between photos - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	49.6	48.4	14.4	27.9	6.9	1.6	0.9	52.5	46.7
	2023	1962	49.1	48.7	12.7	33.0	4.8	0.3	0.5	52.6	45.0
Chile	2019	581	81.8	79.6	5.0	10.6	2.2	2.1	0.5	82.9	80.7
	2023	653	70.8	69.7	8.3	18.1	2.3	0.4	1.2	77.4	64.0
Chinese Taipei	2019	537	69.5	69.2	4.5	23.8	2.1	0.3	0.0	72.5	66.6
	2023	760	64.5	64.5	7.0	26.8	1.7	0.0	0.0	65.1	64.0
Czech Republic	2019	663	80.4	80.1	4.9	12.6	2.0	0.3	0.0	81.5	79.3
	2023	974	77.7	77.6	4.6	15.6	2.0	0.1	0.0	75.4	79.9
Denmark	2019	462	41.6	41.0	18.6	32.9	6.1	1.2	0.2	45.0	38.8
	2023	734	42.6	42.1	20.7	31.9	4.3	0.6	0.4	49.2	35.9
England	2019	481	40.1	39.8	18.5	35.3	5.5	0.6	0.3	41.0	39.4
	2023	574	45.9	45.6	15.5	31.9	6.2	0.8	0.0	49.6	42.5
Finland	2019	673	58.5	58.0	11.5	27.1	2.6	0.8	0.0	61.1	56.4
	2023	814	55.6	55.1	12.3	29.4	2.2	0.9	0.0	57.4	53.9
France	2019	592	51.8	50.8	18.2	23.5	5.6	1.7	0.2	53.9	49.9
	2023	672	53.6	53.2	13.8	26.6	5.5	0.8	0.2	59.3	47.3
Germany	2019	483	63.5	62.7	16.1	17.2	2.8	0.8	0.5	70.7	56.6
	2023	641	61.3	60.7	16.3	19.0	3.0	0.5	0.4	63.9	58.7
Hong Kong SAR	2019	431	60.1	59.7	8.8	28.5	2.3	0.4	0.2	60.8	59.4
	2023	585	47.0	47.0	12.8	35.8	4.4	0.0	0.0	48.3	45.8
Hungary	2019	664	68.1	67.5	16.6	12.5	2.5	0.6	0.4	72.5	64.2
	2023	739	69.5	69.4	18.8	9.4	2.3	0.0	0.1	66.6	72.3
Italy	2019	528	57.0	56.2	12.6	25.0	4.7	1.1	0.5	59.4	54.6
	2023	633	54.8	54.6	11.6	30.0	3.5	0.0	0.3	53.6	55.8
Korea, Rep. of	2019	564	48.1	48.0	12.7	35.5	3.6	0.2	0.0	47.1	49.0
	2023	619	50.9	50.9	14.9	30.6	3.7	0.0	0.0	45.9	56.8
Lithuania	2019	526	75.4	75.3	13.9	7.7	2.9	0.1	0.1	82.3	69.3
	2023	652	74.1	73.8	11.8	11.6	2.5	0.4	0.0	75.2	73.2
Netherlands	2019	478	84.4	83.5	7.1	7.9	0.4	1.0	0.0	89.4	79.7
	2023	513	81.7	81.7	6.3	10.9	1.1	0.0	0.0	78.5	84.2
Norway (5)	2019	570	37.1	36.7	10.6	50.2	1.3	1.0	0.3	43.6	30.6
	2023	755	38.2	38.0	12.7	47.1	1.7	0.3	0.1	37.5	38.9
Portugal	2019	627	42.9	42.4	9.9	43.2	3.3	0.9	0.3	45.6	40.4
	2023	750	44.1	44.1	8.6	44.4	2.9	0.0	0.0	43.0	45.2
Qatar	2019	707	40.7	40.0	16.7	28.4	13.1	1.2	0.6	43.2	38.4
	2023	912	44.3	43.8	15.0	32.1	8.0	0.8	0.3	45.1	43.6
Singapore	2019	848	80.3	79.9	6.0	11.8	1.7	0.6	0.0	83.1	77.6
	2023	933	78.5	78.4	6.3	12.5	2.7	0.2	0.0	78.2	78.9
Slovak Republic	2019	606	64.6	63.9	7.5	26.4	1.1	0.9	0.1	65.3	63.9
	2023	680	59.5	59.4	8.2	28.9	3.3	0.2	0.0	62.7	56.2
Spain	2019	1349	43.2	42.7	11.8	39.7	4.7	0.9	0.2	44.9	41.8
	2023	1455	42.5	42.4	13.0	38.9	5.3	0.3	0.1	43.8	41.3
Sweden	2019	564	72.5	72.0	5.4	17.9	4.0	0.3	0.3	77.2	67.8
	2023	734	70.2	69.9	5.6	21.2	2.9	0.0	0.3	74.0	66.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SM4_04 SE71025: What happened to strawberry plant between photos - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
United Arab Emirates	2019	3647	44.9	44.2	16.0	29.0	9.3	1.1	0.5	43.4	46.4
	2023	4936	46.8	46.2	14.6	31.2	6.7	0.3	1.0	48.9	44.8
United States	2019	1250	44.2	43.6	15.7	35.6	3.7	0.6	0.8	46.7	41.9
	2023	1294	45.5	45.1	14.4	35.8	3.8	0.4	0.6	45.2	45.8
International Avg. (24)	2019	19786	58.4	57.7	11.8	25.4	3.9	0.8	0.3	61.1	55.8
	2023	23974	57.0	56.7	11.9	27.2	3.6	0.3	0.2	58.2	55.8
Abu Dhabi, UAE	2019	1269	39.0	38.5	21.2	27.9	11.1	1.2	0.1	37.6	40.8
	2023	1773	38.3	37.6	19.6	31.9	9.1	0.4	1.3	39.3	37.3
Dubai, UAE	2019	1028	49.6	49.4	11.7	33.7	4.9	0.3	0.1	47.7	51.5
	2023	1308	54.0	53.7	11.0	31.5	3.2	0.2	0.4	55.6	52.5
Ontario, Canada	2019	543	43.8	42.3	17.2	30.8	6.1	2.1	1.4	46.0	41.9
	2023	608	43.3	42.9	15.1	36.7	4.6	0.3	0.5	48.3	37.2
Quebec, Canada	2019	545	60.5	59.6	10.5	18.6	9.8	1.1	0.4	62.8	57.8
	2023	557	62.1	61.6	9.2	22.0	6.5	0.7	0.1	62.5	61.6

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

Science: Life Science / Reasoning

A_SM4_05 SE71081: Animal that competes with giraffe for food - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	32.8	41.3	11.5	32.0	12.7	1.3	1.1	28.5	36.8
	2023	1962	37.9	37.5	10.3	37.6	13.8	0.2	0.6	36.9	39.0
Chile	2019	581	46.1	29.9	10.9	45.3	12.1	0.8	1.1	43.3	48.8
	2023	653	47.2	28.1	11.0	46.2	12.6	0.8	1.4	44.7	49.8
Chinese Taipei	2019	536	59.4	21.2	10.4	59.4	9.0	0.0	0.0	53.3	65.4
	2023	760	60.4	23.0	5.9	60.4	10.7	0.0	0.0	55.9	64.9
Czech Republic	2019	663	57.9	22.7	14.2	57.4	4.9	0.8	0.0	53.4	62.2
	2023	974	52.7	27.5	15.0	52.6	4.7	0.1	0.1	51.1	54.2
Denmark	2019	462	59.2	9.2	20.4	58.8	10.8	0.3	0.4	53.6	63.8
	2023	734	59.4	10.6	19.9	59.0	9.7	0.3	0.5	57.3	61.5
England	2019	481	39.5	36.4	9.9	38.4	12.4	2.7	0.3	37.5	41.4
	2023	574	40.2	35.0	9.6	40.2	15.0	0.2	0.0	38.0	42.9
Finland	2019	673	51.7	22.8	18.6	51.3	6.5	0.8	0.0	49.3	53.6
	2023	814	48.3	24.3	20.4	48.2	7.0	0.1	0.0	44.1	52.2
France	2019	592	53.8	4.1	20.6	53.3	21.1	0.4	0.6	46.9	60.4
	2023	672	47.7	5.8	18.8	47.2	27.1	0.5	0.5	47.1	48.4
Georgia	2019	540	18.1	35.0	13.9	17.5	30.3	2.5	0.8	17.9	18.3
	2023	635	28.6	30.4	14.9	28.1	24.7	1.2	0.6	27.3	30.2
Germany	2019	483	49.2	27.7	15.0	48.3	7.2	1.2	0.5	44.9	53.4
	2023	641	44.1	26.7	16.8	43.7	12.0	0.3	0.5	42.6	45.6
Hong Kong SAR	2019	431	47.6	25.7	10.3	47.4	16.2	0.2	0.2	43.1	51.7
	2023	585	50.7	27.9	6.8	50.6	14.6	0.1	0.0	41.7	58.8
Hungary	2019	664	42.2	37.4	13.7	42.0	6.3	0.2	0.4	40.7	43.6
	2023	739	43.1	36.0	13.4	42.9	7.4	0.2	0.1	43.0	43.1
Italy	2019	528	42.4	31.4	8.0	41.9	17.5	0.7	0.5	31.0	54.5
	2023	633	46.6	28.2	7.6	46.2	17.2	0.5	0.3	43.1	49.8
Korea, Rep. of	2019	564	49.8	26.4	9.2	49.8	14.7	0.0	0.0	47.6	51.8
	2023	619	49.9	30.0	11.0	49.9	9.1	0.0	0.0	45.3	55.5
Lithuania	2019	526	34.7	28.6	28.2	34.5	8.1	0.5	0.1	32.5	36.7
	2023	652	40.6	27.6	24.4	40.5	7.1	0.3	0.0	38.4	42.4
Netherlands	2019	478	33.6	42.0	12.2	33.1	11.1	1.3	0.2	29.1	37.9
	2023	513	33.3	35.5	14.7	33.0	15.9	1.0	0.0	32.6	33.1
Norway (5)	2019	570	58.6	23.8	12.0	57.4	4.7	1.7	0.3	55.0	62.2
	2023	755	50.4	29.7	12.4	50.3	7.4	0.0	0.1	49.3	51.5
Portugal	2019	627	47.0	32.7	10.4	46.6	9.5	0.5	0.3	43.5	50.3
	2023	751	45.0	30.4	7.6	44.8	17.0	0.2	0.0	42.1	47.5
Qatar	2019	707	24.0	41.6	13.0	23.7	20.5	0.5	0.6	22.7	25.2
	2023	912	26.5	39.3	14.8	26.1	18.5	0.9	0.4	25.3	27.6
Singapore	2019	848	40.3	33.4	8.7	40.1	17.4	0.4	0.0	38.4	42.1
	2023	933	45.3	34.0	7.1	45.3	13.5	0.0	0.0	41.9	48.8
Slovak Republic	2019	606	48.3	26.1	20.0	47.8	5.0	0.7	0.4	45.9	51.0
	2023	680	46.0	32.6	15.2	45.9	6.0	0.2	0.0	42.6	49.6
Spain	2019	1349	51.9	28.7	8.4	51.4	10.4	0.4	0.7	47.4	55.8
	2023	1455	45.8	30.5	9.6	45.5	13.8	0.4	0.1	45.3	46.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning

A_SM4_05 SE71081: Animal that competes with giraffe for food - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	40.4	36.0	18.6	39.7	4.1	1.1	0.4	38.8	41.9
	2023	734	37.3	36.9	18.9	36.9	6.1	0.8	0.3	34.9	39.9
United Arab Emirates	2019	3650	25.5	40.8	15.0	25.1	17.4	1.1	0.6	22.8	28.3
	2023	4937	29.9	38.0	14.5	29.5	16.6	0.3	1.1	29.3	30.5
United States	2019	1250	33.6	46.1	6.9	33.1	12.5	0.4	1.1	31.0	36.0
	2023	1294	37.9	36.5	10.8	37.5	14.1	0.3	0.8	31.0	44.9

International Avg. (25)	2019	20328	43.5	30.0	13.6	43.0	12.1	0.8	0.4	39.9	46.9
	2023	24611	43.8	29.7	13.3	43.5	12.9	0.4	0.3	41.2	46.3

Abu Dhabi, UAE	2019	1270	21.6	36.9	18.5	21.2	21.3	1.9	0.3	18.2	25.3
	2023	1774	25.7	34.5	17.8	25.2	20.6	0.4	1.5	23.0	28.2
Dubai, UAE	2019	1028	32.7	42.0	10.0	32.4	14.7	0.9	0.1	28.1	37.2
	2023	1308	37.6	39.7	9.6	37.4	12.5	0.3	0.5	37.9	37.4
Ontario, Canada	2019	543	28.6	45.2	10.9	27.6	12.9	1.7	1.7	23.4	33.2
	2023	608	37.8	38.6	9.6	37.4	13.4	0.4	0.7	33.8	42.2
Quebec, Canada	2019	545	40.9	32.5	13.3	40.4	12.4	0.9	0.5	35.6	45.7
	2023	557	39.3	35.7	11.2	39.2	13.6	0.1	0.1	42.2	36.3

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

Science: Life Science / Knowing

A_SM4_06 SE71056: Human body's reaction to cold temperatures - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	34.7	60.9	32.4	5.6	1.2	38.6	30.7
	2023	1962	39.7	58.0	38.2	3.1	0.7	41.3	38.3
Chile	2019	581	15.4	76.7	13.9	8.3	1.1	11.3	19.1
	2023	653	24.0	69.8	22.0	6.6	1.6	27.7	20.2
Chinese Taipei	2019	536	39.7	58.6	38.6	2.8	0.0	41.8	37.7
	2023	759	53.6	45.4	52.5	2.1	0.0	54.1	53.1
Czech Republic	2019	663	21.5	73.0	20.0	7.0	0.0	17.2	25.5
	2023	974	19.2	75.8	18.0	6.1	0.1	17.1	21.1
Denmark	2019	462	35.1	61.5	33.3	4.8	0.4	31.3	38.4
	2023	734	46.3	52.1	44.9	2.5	0.5	50.9	41.7
England	2019	481	59.0	39.3	56.5	3.8	0.4	65.1	53.4
	2023	574	58.2	40.1	55.8	4.1	0.0	65.7	51.5
Finland	2019	673	45.1	50.3	41.4	8.3	0.0	46.2	44.3
	2023	814	44.1	52.6	41.5	5.9	0.0	49.5	38.7
France	2019	592	32.4	55.5	26.6	17.2	0.6	34.9	30.1
	2023	672	41.7	51.7	37.0	10.8	0.6	41.8	41.7
Georgia	2019	540	25.1	60.9	20.4	17.7	1.1	22.6	27.3
	2023	635	27.9	58.9	22.8	17.7	0.6	27.6	28.2
Germany	2019	483	53.5	43.1	49.6	6.8	0.5	52.8	54.2
	2023	641	51.4	46.0	48.7	4.9	0.5	50.2	52.6
Hong Kong SAR	2019	431	19.3	78.7	18.8	2.3	0.2	14.4	23.7
	2023	585	25.9	68.7	24.0	7.3	0.0	24.4	27.2
Hungary	2019	664	43.3	55.0	42.0	2.5	0.5	48.4	38.9
	2023	739	43.0	56.4	42.6	0.8	0.1	44.8	41.3
Italy	2019	528	31.9	61.1	28.7	9.7	0.5	35.1	28.6
	2023	632	34.7	58.5	31.1	10.1	0.3	35.3	34.1
Korea, Rep. of	2019	564	52.8	46.0	51.4	2.6	0.0	55.4	50.0
	2023	619	48.0	50.0	46.2	3.7	0.0	51.0	44.5
Lithuania	2019	526	44.6	53.1	42.9	3.9	0.1	45.8	43.6
	2023	652	47.9	50.9	46.9	2.2	0.0	53.1	43.8
Netherlands	2019	478	26.5	70.3	25.4	4.0	0.3	22.0	30.7
	2023	513	29.8	67.4	28.6	4.0	0.0	27.8	31.5
Norway (5)	2019	570	40.1	57.3	38.4	4.0	0.3	44.7	35.3
	2023	755	43.6	54.1	41.8	3.9	0.1	49.2	37.4
Portugal	2019	627	24.2	70.5	22.6	6.5	0.4	23.7	24.7
	2023	751	22.9	73.5	21.9	4.6	0.0	21.3	24.4
Qatar	2019	707	13.9	77.2	12.5	9.7	0.6	15.0	12.9
	2023	912	24.5	69.2	22.5	7.5	0.8	26.6	22.6
Singapore	2019	848	46.2	53.3	45.7	1.0	0.0	47.5	44.8
	2023	933	50.0	49.5	49.6	0.8	0.0	51.6	48.4
Slovak Republic	2019	606	38.4	57.6	35.9	6.2	0.4	38.3	38.6
	2023	680	39.4	58.2	37.8	4.0	0.0	41.2	37.5
Spain	2019	1349	17.2	77.3	16.0	5.9	0.7	13.5	20.3
	2023	1455	21.4	72.6	19.8	7.4	0.2	19.3	23.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Knowing

A_SM4_06 SE71056: Human body's reaction to cold temperatures - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	33.5	62.6	31.5	5.4	0.4	36.4	30.6
	2023	734	35.3	61.4	33.5	4.7	0.4	40.1	30.4
United Arab Emirates	2019	3654	21.1	72.6	19.4	7.4	0.7	19.4	22.7
	2023	4936	30.1	65.5	28.2	5.1	1.2	30.8	29.5
United States	2019	1250	42.7	55.5	41.4	1.9	1.1	43.7	41.8
	2023	1294	42.6	56.1	41.6	1.5	0.9	43.4	41.7

International Avg. (25)	2019	20332	34.3	61.1	32.2	6.2	0.5	34.6	33.9
	2023	24608	37.8	58.5	35.9	5.2	0.3	39.4	36.2

Abu Dhabi, UAE	2019	1272	13.7	79.7	12.6	7.2	0.4	13.4	14.0
	2023	1774	22.5	71.7	20.8	5.8	1.6	22.7	22.3
Dubai, UAE	2019	1028	37.5	60.3	36.3	3.3	0.1	36.2	38.8
	2023	1308	43.9	54.9	43.0	1.6	0.6	44.2	43.8
Ontario, Canada	2019	543	33.5	61.9	31.2	5.1	1.9	39.1	28.2
	2023	608	39.0	58.9	37.7	2.5	0.9	38.3	40.1
Quebec, Canada	2019	545	34.3	60.9	31.7	6.8	0.5	35.8	31.9
	2023	557	41.8	55.3	39.7	4.9	0.1	44.6	38.6

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

Science: Physical Science / Applying

A_SM4_07 SE71145: Ramp that makes it easiest to move heavy box - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	77.2	75.4	10.5	2.2	9.6	1.1	1.3	73.0	81.2
	2023	1962	73.0	72.4	11.5	2.7	12.7	0.1	0.7	70.8	75.4
Chile	2019	581	73.0	70.8	12.2	2.2	11.8	0.9	2.2	71.4	74.4
	2023	653	63.1	61.5	13.1	2.6	20.3	0.8	1.7	62.7	63.5
Chinese Taipei	2019	537	79.2	79.1	10.2	0.8	9.8	0.2	0.0	77.5	80.8
	2023	760	78.5	78.5	10.9	1.0	9.5	0.0	0.0	80.2	76.8
Czech Republic	2019	663	77.3	77.0	10.5	2.8	9.3	0.4	0.0	74.2	80.3
	2023	974	75.7	75.4	12.9	1.5	9.8	0.1	0.2	73.0	78.1
Denmark	2019	462	71.9	71.2	10.9	1.3	15.6	0.3	0.6	71.0	72.6
	2023	734	70.2	69.4	9.1	3.1	17.3	0.3	0.8	71.1	69.2
England	2019	481	75.9	75.1	12.3	2.0	9.5	0.7	0.4	76.5	75.4
	2023	574	74.9	74.9	10.2	2.1	12.8	0.0	0.0	77.0	73.1
Finland	2019	673	79.8	79.5	8.3	2.3	9.5	0.5	0.0	73.0	85.2
	2023	814	74.4	73.7	8.4	2.0	15.0	0.8	0.0	74.5	74.2
France	2019	592	64.0	62.8	13.3	3.7	18.3	1.1	0.9	65.9	62.2
	2023	672	67.1	66.6	12.9	2.5	17.2	0.1	0.7	66.8	67.6
Georgia	2019	540	54.8	53.3	17.0	3.8	23.2	1.4	1.3	56.1	53.6
	2023	635	57.0	55.5	17.6	3.2	21.1	0.6	2.0	56.2	57.8
Germany	2019	483	74.6	73.4	7.3	3.4	14.3	1.1	0.5	73.8	76.2
	2023	641	65.2	64.8	10.8	2.3	21.5	0.1	0.5	62.3	68.1
Hong Kong SAR	2019	431	68.8	68.5	12.3	4.2	14.5	0.2	0.2	62.4	74.7
	2023	585	69.6	69.5	12.7	3.7	13.9	0.2	0.0	68.4	70.8
Hungary	2019	664	58.1	57.5	9.4	2.1	29.9	0.2	0.9	55.0	60.7
	2023	739	60.2	60.0	11.8	1.9	26.0	0.2	0.1	59.0	61.3
Italy	2019	528	64.4	63.0	14.4	3.7	16.7	1.4	0.9	60.0	69.2
	2023	633	62.1	61.5	17.4	2.0	18.1	0.8	0.3	57.7	66.2
Korea, Rep. of	2019	564	72.0	71.8	8.1	1.2	18.7	0.2	0.0	68.5	75.5
	2023	619	66.9	66.7	9.6	2.9	20.5	0.0	0.3	64.2	70.1
Lithuania	2019	526	71.4	70.9	10.5	2.9	15.0	0.6	0.1	68.0	74.5
	2023	652	68.5	68.5	9.2	4.3	18.0	0.0	0.0	72.4	65.2
Netherlands	2019	478	70.7	69.8	7.7	4.3	17.0	0.6	0.5	67.4	73.8
	2023	513	72.7	72.7	8.2	4.5	14.5	0.0	0.0	70.0	75.3
Norway (5)	2019	570	77.3	76.4	7.9	2.4	12.1	0.7	0.5	78.5	76.1
	2023	755	71.2	70.9	8.4	4.8	15.4	0.2	0.3	67.0	75.9
Portugal	2019	627	66.8	65.6	16.2	3.0	13.5	1.1	0.7	67.9	65.7
	2023	751	66.1	65.9	15.0	3.2	15.6	0.3	0.0	65.7	66.4
Qatar	2019	707	56.7	55.6	18.9	2.7	20.8	1.2	0.8	55.6	57.8
	2023	912	55.2	54.6	14.1	2.1	28.1	0.1	0.9	55.2	55.3
Singapore	2019	848	79.8	79.8	10.3	2.0	7.8	0.0	0.1	77.1	82.6
	2023	933	76.0	75.9	11.9	2.2	9.9	0.1	0.0	74.9	77.2
Slovak Republic	2019	606	82.0	80.4	9.4	1.3	6.9	1.5	0.4	76.5	87.7
	2023	680	81.5	81.3	9.9	1.2	7.4	0.2	0.0	78.3	84.8
Spain	2019	1349	79.2	78.2	10.9	1.5	8.1	0.6	0.7	81.1	77.6
	2023	1455	74.7	74.0	15.2	1.0	8.8	0.7	0.2	76.2	73.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Applying

A_SM4_07 SE71145: Ramp that makes it easiest to move heavy box - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	74.3	73.4	9.4	2.1	13.8	0.5	0.8	72.5	76.1
	2023	734	73.5	72.9	7.1	2.6	16.5	0.4	0.4	75.9	71.1
United Arab Emirates	2019	3652	65.7	64.6	14.2	1.9	17.7	0.8	0.8	67.5	64.1
	2023	4937	67.5	66.3	14.5	2.0	15.4	0.3	1.5	69.5	65.7
United States	2019	1250	76.0	74.7	12.5	1.1	10.0	0.4	1.3	75.3	76.6
	2023	1293	73.0	71.9	11.6	1.4	13.7	0.4	0.9	72.4	73.5

International Avg. (25)	2019	20331	71.6	70.7	11.4	2.4	14.1	0.7	0.6	69.8	73.4
	2023	24610	69.5	69.0	11.8	2.5	16.0	0.3	0.5	68.8	70.2

Abu Dhabi, UAE	2019	1271	54.8	53.9	14.2	2.9	27.3	1.1	0.7	54.4	55.4
	2023	1774	57.3	56.0	17.4	2.1	22.3	0.3	1.9	61.6	53.2
Dubai, UAE	2019	1028	77.0	76.5	14.0	1.1	7.7	0.5	0.1	76.8	77.2
	2023	1308	78.5	77.9	11.6	2.0	7.8	0.1	0.6	78.4	78.6
Ontario, Canada	2019	543	78.5	76.4	12.3	2.2	6.3	0.8	1.9	74.0	82.8
	2023	608	79.3	78.5	10.9	1.4	8.2	0.1	0.9	77.6	81.2
Quebec, Canada	2019	545	68.6	67.3	9.7	2.9	18.3	1.1	0.8	62.8	73.8
	2023	557	61.8	61.7	11.1	5.4	21.7	0.0	0.1	59.0	64.5

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

Science: Physical Science / Reasoning

A_SM4_08 SE71104: Magnets in plastic and iron cups - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	75.1	23.3	70.1	5.3	1.4	76.0	74.1
	2023	1962	57.8	40.0	54.8	4.5	0.7	62.3	52.9
Chile	2019	581	60.7	35.3	54.5	7.8	2.4	60.8	60.5
	2023	653	52.6	42.7	47.4	7.7	2.2	52.7	52.5
Chinese Taipei	2019	537	75.7	23.5	72.9	3.6	0.0	77.6	73.8
	2023	760	65.0	34.1	63.3	2.6	0.0	66.8	63.2
Czech Republic	2019	663	78.4	20.2	73.3	6.5	0.0	79.3	77.4
	2023	974	66.6	30.9	61.6	7.3	0.2	72.2	61.6
Denmark	2019	462	77.7	21.0	73.4	5.0	0.6	76.5	78.7
	2023	734	75.8	22.6	70.9	5.5	1.0	76.5	75.1
England	2019	481	76.1	23.3	73.9	2.5	0.4	77.7	74.5
	2023	574	73.5	25.8	71.3	2.9	0.0	76.5	70.7
Finland	2019	673	88.1	11.5	85.2	3.3	0.0	88.4	87.9
	2023	814	76.8	22.0	72.8	5.3	0.0	79.3	74.3
France	2019	592	59.2	34.9	50.7	13.4	0.9	62.3	56.2
	2023	672	54.4	39.3	46.9	13.1	0.7	57.1	51.5
Georgia	2019	539	74.4	21.1	61.5	16.1	1.3	74.8	74.0
	2023	635	58.2	35.4	49.3	12.8	2.5	59.2	57.1
Germany	2019	483	69.0	26.8	59.7	12.7	0.8	71.3	66.5
	2023	641	55.9	39.2	49.6	10.7	0.5	54.5	57.2
Hong Kong SAR	2019	431	48.0	48.5	44.7	6.6	0.2	50.6	45.4
	2023	585	42.4	51.5	37.9	10.6	0.0	45.6	39.4
Hungary	2019	664	67.6	31.0	64.6	3.6	0.9	68.1	67.1
	2023	739	50.6	47.2	48.4	4.2	0.1	45.5	55.6
Italy	2019	528	77.7	21.1	73.3	4.8	0.9	79.7	75.5
	2023	633	66.1	30.3	59.1	9.7	0.9	63.4	68.6
Korea, Rep. of	2019	564	79.9	19.8	78.3	1.9	0.0	81.4	78.7
	2023	619	67.4	31.7	65.6	2.4	0.3	65.7	69.6
Lithuania	2019	526	69.4	28.8	65.2	5.6	0.4	66.1	72.2
	2023	652	67.3	31.2	64.1	4.7	0.0	71.2	64.1
Netherlands	2019	478	78.8	20.6	76.6	2.2	0.5	83.6	74.3
	2023	513	74.6	24.8	72.6	2.7	0.0	71.6	76.8
Norway (5)	2019	570	74.5	24.0	70.1	5.4	0.5	73.3	75.7
	2023	755	65.1	32.4	60.4	6.7	0.4	64.9	65.3
Portugal	2019	627	68.4	29.4	63.5	6.5	0.7	72.7	64.3
	2023	750	59.8	38.0	56.4	5.4	0.2	62.4	57.4
Qatar	2019	707	57.8	39.3	53.9	6.0	0.8	63.2	52.5
	2023	911	53.4	43.2	49.5	6.3	0.9	54.5	52.3
Singapore	2019	848	77.5	22.3	77.1	0.5	0.1	77.9	77.1
	2023	933	72.6	27.3	72.3	0.3	0.1	73.6	71.5
Slovak Republic	2019	606	65.8	32.6	62.7	4.4	0.4	66.8	64.7
	2023	680	52.6	44.6	49.5	5.9	0.0	54.3	51.0
Spain	2019	1349	55.9	41.4	52.4	5.4	0.7	59.7	52.6
	2023	1453	49.4	46.4	45.3	7.5	0.8	47.5	51.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Reasoning

A_SM4_08 SE71104: Magnets in plastic and iron cups - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	72.1	24.9	64.3	10.1	0.8	73.1	71.0
	2023	734	75.5	23.3	71.7	4.5	0.5	80.6	70.2
United Arab Emirates	2019	3654	61.0	36.1	56.5	6.5	0.9	61.9	60.3
	2023	4935	62.1	35.6	58.2	4.6	1.7	63.0	61.3
United States	2019	1250	72.3	26.8	69.8	2.0	1.4	72.1	72.4
	2023	1294	61.2	37.6	59.2	2.0	1.2	62.5	59.8

International Avg. (25)	2019	20332	70.4	27.5	65.9	5.9	0.7	71.8	69.1
	2023	24605	62.3	35.1	58.3	6.0	0.6	63.3	61.2

Abu Dhabi, UAE	2019	1272	45.0	51.5	42.1	5.7	0.8	46.5	43.7
	2023	1773	48.0	47.8	44.1	6.0	2.1	49.9	46.3
Dubai, UAE	2019	1028	76.5	22.7	73.9	3.2	0.1	79.4	73.8
	2023	1308	75.2	24.2	73.2	2.0	0.7	75.5	75.0
Ontario, Canada	2019	543	75.0	23.3	69.9	5.0	1.9	75.0	75.3
	2023	608	62.8	35.6	60.1	3.3	1.0	65.8	59.2
Quebec, Canada	2019	545	72.8	25.7	69.0	4.5	0.8	76.5	69.0
	2023	557	49.4	46.9	45.7	7.2	0.1	54.1	44.3

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

Science: Physical Science / Knowing

A_SM4_09 SE71144: How using a pulley helps lift a box - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	63.5	19.7	6.3	9.0	60.8	2.2	2.0	64.1	63.2
	2023	1962	61.4	21.8	7.1	9.0	60.3	0.7	1.1	62.6	60.0
Chile	2019	581	45.5	30.0	10.3	11.0	42.9	2.8	3.0	48.4	43.0
	2023	653	47.9	22.4	13.1	13.3	44.9	3.1	3.3	47.3	48.5
Chinese Taipei	2019	536	58.9	16.2	10.2	14.6	58.8	0.2	0.0	53.2	64.3
	2023	760	58.8	12.5	11.6	17.0	58.7	0.2	0.0	53.9	63.6
Czech Republic	2019	663	58.3	22.7	7.0	11.3	57.4	1.5	0.0	55.7	60.9
	2023	974	54.8	21.7	10.1	12.8	54.1	0.9	0.5	56.0	53.8
Denmark	2019	462	49.2	21.6	13.2	14.3	47.5	2.7	0.6	49.4	49.0
	2023	734	50.7	24.5	10.7	12.3	49.0	1.8	1.7	50.4	51.1
England	2019	481	57.6	16.2	13.0	12.5	56.7	1.1	0.5	60.0	55.3
	2023	574	57.5	15.7	14.9	11.6	57.0	0.4	0.4	59.4	56.2
Finland	2019	673	61.9	12.5	9.8	15.2	61.0	1.5	0.0	60.4	63.1
	2023	814	64.7	12.1	9.5	13.5	64.1	0.9	0.0	65.6	63.8
France	2019	591	57.6	22.7	8.8	8.9	54.8	3.2	1.6	56.3	58.9
	2023	672	58.5	15.4	9.5	14.9	56.2	3.0	1.0	57.5	59.7
Georgia	2019	538	45.2	31.9	8.4	12.4	43.5	2.3	1.6	47.6	43.2
	2023	635	50.9	23.2	10.5	12.6	48.1	2.7	2.8	54.3	47.2
Germany	2019	483	56.8	25.1	10.8	4.8	53.7	4.5	1.0	58.6	55.2
	2023	641	56.7	23.3	9.3	9.4	55.1	2.1	0.8	57.1	56.4
Hong Kong SAR	2019	431	52.5	16.7	14.9	15.3	52.0	0.7	0.4	51.1	53.9
	2023	585	54.1	10.7	13.9	21.2	54.0	0.2	0.0	55.4	53.0
Hungary	2019	664	66.3	16.6	8.3	8.3	65.3	0.6	0.9	65.5	66.9
	2023	739	61.1	16.5	10.8	11.5	60.9	0.2	0.1	61.8	60.4
Italy	2019	528	65.9	17.2	10.0	5.7	63.6	2.5	1.0	67.3	64.6
	2023	633	64.9	16.1	10.0	8.1	63.4	1.4	1.0	61.7	67.8
Korea, Rep. of	2019	564	84.0	6.1	3.5	6.3	83.8	0.2	0.0	85.5	82.6
	2023	619	77.1	7.7	4.8	10.2	76.6	0.3	0.3	75.3	79.3
Lithuania	2019	526	62.9	16.1	8.5	11.9	61.7	1.4	0.4	65.0	61.0
	2023	652	66.3	13.0	10.8	9.7	66.0	0.5	0.0	64.1	68.1
Netherlands	2019	478	59.1	19.7	7.6	12.4	57.3	2.3	0.8	60.9	57.4
	2023	513	58.5	20.1	8.0	12.6	57.4	1.9	0.0	58.0	59.5
Norway (5)	2019	570	63.5	8.6	13.5	13.8	62.3	1.3	0.6	63.2	63.8
	2023	755	66.0	8.5	11.9	13.0	64.8	0.7	1.1	67.3	64.5
Portugal	2019	627	58.3	18.5	11.9	10.0	56.4	2.4	0.9	60.4	56.3
	2023	751	62.9	16.9	9.6	9.9	61.6	1.3	0.7	64.9	61.0
Qatar	2019	707	47.9	20.5	13.7	16.0	46.3	2.1	1.3	47.1	48.7
	2023	912	46.7	20.4	12.1	19.5	45.6	0.9	1.6	48.4	45.2
Singapore	2019	848	63.7	8.7	7.5	19.7	63.0	1.2	0.1	63.0	64.5
	2023	933	59.7	9.0	13.4	17.8	59.6	0.1	0.1	59.1	60.4
Slovak Republic	2019	606	73.4	16.4	4.8	4.8	71.6	1.7	0.8	72.7	74.1
	2023	680	67.9	19.8	4.2	7.8	67.3	0.9	0.0	66.4	69.5
Spain	2019	1349	67.1	14.3	9.7	8.2	65.8	1.0	1.0	70.4	64.4
	2023	1455	60.3	20.0	8.7	10.0	58.9	1.4	0.9	61.7	59.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM4_09 SE71144: How using a pulley helps lift a box - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	51.9	21.4	11.5	13.6	50.2	2.1	1.2	51.2	52.5
	2023	734	53.4	17.5	12.2	16.1	52.4	1.0	0.8	49.9	56.9
United Arab Emirates	2019	3647	49.5	19.8	10.8	18.3	47.9	1.9	1.3	50.7	48.4
	2023	4937	54.0	17.3	11.9	15.3	52.2	1.2	2.1	53.3	54.6
United States	2019	1250	55.8	22.5	8.6	11.9	54.2	1.1	1.6	55.0	56.5
	2023	1294	54.7	19.6	10.3	14.1	53.2	1.0	1.8	54.4	55.0

International Avg. (25)	2019	20322	59.1	18.5	9.7	11.6	57.5	1.8	0.9	59.3	58.9
	2023	24611	58.8	17.0	10.4	12.9	57.7	1.1	0.9	58.6	59.0

Abu Dhabi, UAE	2019	1268	37.8	22.0	14.0	23.8	36.4	2.3	1.4	38.1	37.7
	2023	1774	43.9	20.8	15.5	17.2	41.9	1.5	3.0	43.6	44.2
Dubai, UAE	2019	1028	65.8	13.0	8.7	11.7	64.2	2.0	0.5	66.5	65.1
	2023	1308	67.7	10.9	8.8	12.2	66.7	0.9	0.7	64.3	71.0
Ontario, Canada	2019	543	65.8	19.0	3.5	10.1	62.4	2.1	3.0	68.4	63.5
	2023	608	62.1	24.7	4.3	8.1	60.7	1.0	1.3	65.2	58.3
Quebec, Canada	2019	545	59.1	19.8	12.4	7.5	57.4	2.1	0.8	54.1	64.5
	2023	557	60.0	17.7	11.6	10.1	59.2	0.4	1.0	61.1	58.8

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

Science: Physical Science / Knowing

A_SM4_10 SE71150: Force acting on Skydiver and dropped book - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	75.3	22.6	69.1	6.2	2.1	73.9	76.7
	2023	1962	74.2	24.2	69.7	4.6	1.5	71.4	77.1
Chile	2019	581	56.3	37.9	48.9	9.9	3.2	52.3	59.9
	2023	653	54.9	37.4	45.6	12.0	4.9	56.7	53.2
Chinese Taipei	2019	537	76.3	23.1	74.2	2.7	0.0	76.6	76.0
	2023	760	77.3	22.1	75.4	2.5	0.0	73.4	81.2
Czech Republic	2019	663	74.1	23.4	66.8	9.9	0.0	69.9	77.8
	2023	974	68.3	28.0	60.2	11.2	0.5	65.1	70.9
Denmark	2019	462	79.8	18.7	74.1	6.5	0.6	77.4	81.7
	2023	734	76.6	22.3	73.2	2.7	1.8	72.1	81.1
England	2019	481	82.3	17.0	79.3	3.1	0.5	79.8	84.7
	2023	574	77.7	21.5	74.9	2.9	0.6	77.7	77.8
Finland	2019	673	66.0	31.8	61.8	6.2	0.2	62.7	68.6
	2023	814	63.8	34.2	60.3	5.4	0.1	66.1	61.5
France	2019	592	48.4	38.8	36.4	23.0	1.9	41.0	54.4
	2023	672	56.3	36.7	47.3	14.3	1.8	52.0	60.6
Georgia	2019	540	61.5	32.4	51.6	14.2	1.9	70.7	53.4
	2023	635	64.0	29.0	51.5	14.1	5.3	63.4	64.7
Germany	2019	483	77.0	20.3	67.9	10.0	1.9	73.5	80.6
	2023	641	70.3	26.9	63.5	8.3	1.3	68.0	72.5
Hong Kong SAR	2019	431	56.3	40.6	52.3	6.7	0.4	54.4	58.0
	2023	585	60.6	36.8	56.7	6.4	0.1	60.0	61.2
Hungary	2019	664	68.5	29.4	64.0	5.5	1.2	69.0	68.2
	2023	739	66.4	31.7	62.7	5.2	0.3	64.4	68.3
Italy	2019	528	73.6	23.8	66.1	8.7	1.4	69.9	77.4
	2023	633	73.9	21.9	62.1	14.4	1.6	67.9	79.0
Korea, Rep. of	2019	564	77.9	21.4	75.5	3.1	0.0	75.2	80.2
	2023	619	82.2	17.4	80.2	2.2	0.3	82.6	81.7
Lithuania	2019	526	77.1	21.3	71.4	6.8	0.6	73.4	80.0
	2023	652	72.0	27.1	69.8	3.1	0.0	68.1	75.1
Netherlands	2019	478	81.3	18.0	78.1	3.0	0.9	79.9	82.5
	2023	513	82.2	16.9	78.5	4.1	0.5	76.9	86.6
Norway (5)	2019	570	79.7	18.8	73.9	6.6	0.7	77.5	81.9
	2023	755	73.1	24.8	67.3	6.4	1.5	63.7	82.8
Portugal	2019	627	57.1	36.4	48.5	13.1	1.9	53.8	60.1
	2023	751	63.6	32.3	56.4	9.8	1.6	59.8	66.7
Qatar	2019	707	51.4	43.7	46.2	8.0	2.1	54.2	48.7
	2023	911	55.1	41.4	50.9	6.0	1.7	52.0	58.2
Singapore	2019	848	76.3	23.4	75.2	1.4	0.1	75.2	77.4
	2023	933	78.8	21.1	78.2	0.7	0.1	78.0	79.6
Slovak Republic	2019	606	84.6	14.1	77.1	7.7	1.1	84.1	85.1
	2023	680	77.8	21.2	74.0	4.7	0.2	75.3	80.3
Spain	2019	1349	65.8	30.4	58.5	9.9	1.2	63.2	68.0
	2023	1454	70.0	26.1	60.7	11.8	1.4	65.9	73.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SM4_10 SE71150: Force acting on Skydiver and dropped book - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	54.7	40.0	48.2	10.3	1.5	52.6	56.8
	2023	734	63.4	33.3	57.7	8.2	0.8	57.7	69.0
United Arab Emirates	2019	3657	63.2	33.7	57.9	6.8	1.7	63.6	63.2
	2023	4936	70.9	26.9	65.5	4.6	3.0	71.5	70.4
United States	2019	1250	77.7	21.5	74.8	1.8	1.9	76.4	78.9
	2023	1294	75.7	23.2	72.5	1.8	2.4	74.0	77.5

International Avg. (25)	2019	20336	69.7	27.3	63.9	7.6	1.2	68.0	71.2
	2023	24608	70.0	27.4	64.6	6.7	1.3	67.3	72.4

Abu Dhabi, UAE	2019	1274	45.6	49.1	41.2	7.8	1.9	43.6	48.2
	2023	1774	56.2	39.1	50.2	6.4	4.3	57.4	55.2
Dubai, UAE	2019	1028	81.3	17.9	78.0	3.4	0.8	81.2	81.4
	2023	1308	81.6	17.6	78.1	2.9	1.4	80.9	82.4
Ontario, Canada	2019	543	79.8	18.8	74.2	3.9	3.2	80.6	79.3
	2023	608	78.5	19.9	72.8	5.3	2.0	75.7	81.7
Quebec, Canada	2019	545	67.7	28.9	60.6	9.7	0.8	62.6	71.8
	2023	557	65.0	32.7	60.8	5.4	1.1	61.4	68.9

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

Science: Earth Science / Knowing

A_SM4_11 SE71201: What covers Earth's surface - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	68.7	16.6	66.1	12.5	1.1	0.9	2.8	60.3	76.8
	2023	1961	68.8	17.6	67.5	11.7	1.2	0.2	1.7	66.5	71.2
Chile	2019	581	68.8	16.1	65.1	10.6	2.8	1.1	4.3	67.1	70.4
	2023	653	71.6	12.4	66.9	11.3	2.9	0.2	6.3	70.8	72.4
Chinese Taipei	2019	536	79.0	7.0	79.0	9.6	4.4	0.0	0.0	75.7	82.2
	2023	760	80.4	8.8	80.3	7.8	2.9	0.2	0.0	75.6	85.1
Czech Republic	2019	663	71.2	8.4	70.4	17.8	2.2	0.3	0.8	64.8	77.4
	2023	974	63.7	9.2	62.9	25.0	1.7	0.1	1.2	54.7	72.1
Denmark	2019	462	75.9	11.1	75.1	11.1	1.7	0.2	0.8	69.6	81.0
	2023	734	74.6	7.4	73.1	15.3	2.2	0.1	1.9	70.2	78.9
England	2019	481	80.1	12.1	79.4	5.2	2.4	0.3	0.6	75.6	84.4
	2023	574	81.0	11.4	80.2	6.0	1.5	0.3	0.6	76.4	85.4
Finland	2019	673	82.3	3.9	81.6	12.4	1.3	0.6	0.2	78.0	85.6
	2023	814	80.9	6.4	80.8	11.3	1.4	0.0	0.1	80.2	81.6
France	2019	592	67.7	14.7	66.1	13.8	3.1	0.3	2.0	63.8	71.3
	2023	672	70.1	14.7	68.4	12.2	2.3	0.3	2.2	68.3	72.1
Georgia	2019	538	54.2	28.9	52.6	11.4	4.1	0.6	2.4	54.7	53.8
	2023	635	58.6	23.9	53.4	9.4	4.6	1.5	7.2	55.0	62.5
Germany	2019	483	72.3	11.1	70.1	12.6	3.1	0.8	2.3	71.3	73.0
	2023	641	70.5	10.6	69.3	14.5	3.9	0.3	1.4	69.1	71.8
Hong Kong SAR	2019	431	75.3	10.4	74.1	11.5	2.5	0.2	1.3	70.3	79.9
	2023	585	76.9	11.2	76.7	9.2	2.7	0.1	0.2	68.7	84.4
Hungary	2019	664	76.5	13.6	74.7	7.7	1.8	1.2	1.2	76.9	76.1
	2023	739	76.5	11.0	75.4	10.5	1.6	0.1	1.3	72.9	80.1
Italy	2019	528	81.9	9.7	78.8	6.5	1.2	1.9	1.8	80.8	83.1
	2023	633	85.4	7.7	82.9	5.1	1.4	0.7	2.2	81.7	88.6
Korea, Rep. of	2019	564	95.6	1.3	95.6	3.0	0.1	0.0	0.0	95.5	95.6
	2023	619	93.3	3.6	93.0	2.2	0.9	0.0	0.3	89.4	98.0
Lithuania	2019	526	53.6	26.8	53.1	16.2	3.0	0.2	0.6	46.4	60.0
	2023	652	63.9	20.8	63.7	13.4	1.8	0.2	0.2	58.0	68.7
Netherlands	2019	478	58.4	10.2	57.3	23.2	7.4	0.6	1.3	53.5	63.0
	2023	513	65.7	11.1	65.1	17.6	5.3	0.4	0.5	59.8	71.7
Norway (5)	2019	570	70.1	13.4	68.8	14.9	1.2	0.9	0.9	63.6	76.6
	2023	755	73.3	12.8	71.9	11.6	1.7	0.3	1.7	68.9	78.1
Portugal	2019	627	80.8	8.9	78.3	7.8	1.8	0.2	2.9	77.7	83.7
	2023	751	80.8	7.5	79.0	8.9	2.4	0.4	1.9	79.8	81.7
Qatar	2019	707	61.3	20.1	59.1	9.0	8.3	0.6	3.0	61.2	61.4
	2023	911	66.1	18.8	63.7	3.8	10.0	0.5	3.2	62.5	69.7
Singapore	2019	848	72.8	16.0	72.4	9.5	1.6	0.3	0.2	70.6	75.0
	2023	933	76.8	12.2	76.7	10.2	0.7	0.0	0.1	74.2	79.4
Slovak Republic	2019	606	70.5	4.9	68.8	21.3	2.7	1.0	1.4	65.4	75.8
	2023	680	61.4	6.9	61.2	28.1	3.6	0.1	0.2	57.7	65.2
Spain	2019	1349	83.4	8.9	81.4	5.4	1.9	0.7	1.6	81.3	85.1
	2023	1455	81.1	9.5	79.4	7.2	1.8	0.3	1.9	80.7	81.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SM4_11 SE71201: What covers Earth's surface - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	76.1	4.7	74.8	17.3	1.5	0.2	1.5	76.8	75.4
	2023	734	79.8	5.6	78.4	13.1	1.2	0.2	1.5	78.1	81.4
United Arab Emirates	2019	3651	66.1	19.3	64.0	7.7	5.8	0.9	2.2	63.5	68.6
	2023	4937	73.5	15.7	69.8	5.2	4.3	0.5	4.4	70.8	76.0
United States	2019	1250	76.0	16.4	73.5	4.6	2.3	0.8	2.5	75.0	77.0
	2023	1294	74.0	15.2	71.8	7.1	2.9	0.2	2.7	69.9	78.1

International Avg. (25)	2019	20327	72.7	12.6	71.2	11.3	2.8	0.6	1.6	69.6	75.7
	2023	24609	73.9	11.7	72.5	11.1	2.7	0.3	1.8	70.4	77.4

Abu Dhabi, UAE	2019	1271	56.3	20.6	54.2	11.9	9.5	1.0	2.8	54.9	57.6
	2023	1774	63.6	19.2	59.2	8.8	5.9	0.8	6.1	61.6	65.4
Dubai, UAE	2019	1028	78.2	14.7	76.6	4.8	1.9	1.0	1.1	75.7	80.6
	2023	1308	84.4	10.0	82.2	2.6	2.5	0.0	2.7	81.8	87.0
Ontario, Canada	2019	543	69.6	16.9	66.5	11.2	1.0	0.6	3.8	59.2	79.7
	2023	608	69.2	20.6	67.7	8.4	1.2	0.1	2.0	67.4	71.2
Quebec, Canada	2019	545	64.7	16.5	62.7	16.5	1.1	1.2	1.8	57.0	71.7
	2023	557	63.9	15.4	62.8	18.1	1.9	0.3	1.5	60.1	67.9

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

Science: Earth Science / Applying
A_SM4_12 SE71237: Identify the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	45.3	51.5	42.6	3.0	2.9	44.4	46.4
	2023	1962	35.4	62.3	34.1	1.8	1.8	36.2	34.8
Chile	2019	581	19.5	72.8	17.7	5.0	4.5	19.8	19.4
	2023	653	16.7	74.5	15.0	4.2	6.3	16.0	17.4
Chinese Taipei	2019	537	71.8	28.0	71.3	0.7	0.0	72.1	71.5
	2023	760	78.2	21.8	78.1	0.0	0.2	78.9	77.6
Czech Republic	2019	663	54.3	43.7	51.8	3.7	0.8	52.1	56.3
	2023	974	42.6	55.5	41.3	2.1	1.2	43.1	42.2
Denmark	2019	462	49.3	48.6	47.3	3.3	0.8	52.2	46.9
	2023	734	52.8	45.2	50.6	2.2	2.0	54.3	51.3
England	2019	481	37.2	61.0	36.1	2.3	0.6	35.2	39.1
	2023	574	62.4	36.9	61.2	1.3	0.6	63.8	61.4
Finland	2019	673	67.3	31.6	65.2	2.9	0.2	69.7	65.5
	2023	814	63.1	36.1	61.6	2.3	0.1	67.5	58.8
France	2019	592	44.5	50.3	40.3	7.3	2.0	46.7	42.3
	2023	672	47.3	49.0	43.9	4.7	2.4	44.9	50.0
Georgia	2019	540	26.4	63.7	22.8	11.1	2.4	34.9	18.8
	2023	634	32.3	56.6	26.9	8.4	8.1	37.2	26.8
Germany	2019	483	53.4	42.9	49.2	5.6	2.3	57.0	49.9
	2023	641	51.4	47.0	49.7	2.0	1.4	54.6	48.3
Hong Kong SAR	2019	431	70.4	28.8	68.6	1.3	1.3	77.6	63.8
	2023	585	66.8	33.0	66.6	0.1	0.3	67.1	66.6
Hungary	2019	664	57.9	41.1	56.5	0.7	1.7	60.7	55.6
	2023	739	59.9	39.3	58.6	0.7	1.4	60.4	59.3
Italy	2019	528	26.0	68.8	24.2	5.1	1.9	28.4	23.5
	2023	633	42.3	55.0	40.3	2.3	2.4	40.6	43.9
Korea, Rep. of	2019	564	76.3	23.5	75.6	0.8	0.0	77.2	75.7
	2023	619	65.3	34.6	65.0	0.2	0.3	63.6	67.2
Lithuania	2019	526	42.3	56.4	41.3	1.6	0.6	45.0	39.9
	2023	652	45.0	54.4	44.6	0.8	0.2	47.2	43.3
Netherlands	2019	478	54.8	42.6	51.7	4.4	1.3	56.6	53.1
	2023	513	50.0	49.1	49.1	1.3	0.5	47.0	53.3
Norway (5)	2019	570	56.6	42.0	54.9	2.2	0.9	58.5	54.7
	2023	755	43.0	54.2	41.0	2.9	1.9	43.6	42.5
Portugal	2019	627	27.9	68.2	26.4	2.5	2.9	26.8	29.0
	2023	751	22.1	74.3	21.1	2.4	2.2	22.4	21.9
Qatar	2019	707	34.2	62.4	32.4	2.0	3.1	33.6	34.7
	2023	912	41.3	55.7	39.2	1.6	3.5	41.0	41.6
Singapore	2019	848	71.6	28.3	71.3	0.2	0.2	72.7	70.4
	2023	933	73.2	26.7	73.0	0.2	0.1	71.3	75.2
Slovak Republic	2019	606	36.5	60.7	34.9	2.9	1.4	31.0	42.4
	2023	680	34.8	64.2	34.3	1.3	0.2	33.0	36.7
Spain	2019	1349	55.1	43.2	53.0	1.8	2.0	59.3	51.5
	2023	1455	53.9	43.9	51.4	2.6	2.1	53.3	54.6

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

Science: Earth Science / Applying
A_SM4_12 SE71237: Identify the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	44.6	50.8	40.9	6.8	1.5	49.2	40.2
	2023	734	43.0	54.0	40.7	3.7	1.6	44.0	42.1
United Arab Emirates	2019	3652	33.8	63.2	32.2	2.3	2.3	33.9	33.6
	2023	4937	43.2	53.4	40.6	1.2	4.8	42.6	43.8
United States	2019	1250	54.9	43.6	53.0	0.6	2.7	55.8	54.0
	2023	1294	49.4	48.7	47.6	0.7	3.0	50.3	48.6

International Avg. (25)	2019	20331	48.5	48.7	46.5	3.2	1.6	50.0	47.1
	2023	24610	48.6	49.0	47.0	2.0	1.9	48.9	48.4

Abu Dhabi, UAE	2019	1271	22.7	72.9	21.4	2.7	3.0	21.7	23.3
	2023	1774	29.8	64.7	27.5	1.1	6.7	30.3	29.3
Dubai, UAE	2019	1028	51.8	47.4	50.8	0.7	1.1	54.1	49.5
	2023	1308	60.2	38.6	58.2	0.5	2.7	57.0	63.2
Ontario, Canada	2019	543	54.6	42.4	51.0	2.7	4.0	52.2	57.1
	2023	608	41.3	55.9	39.4	2.7	2.1	41.7	41.0
Quebec, Canada	2019	545	29.5	67.1	28.1	3.0	1.8	30.3	28.9
	2023	557	25.9	71.7	25.0	1.4	1.8	26.6	25.2

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

Science: Earth Science / Reasoning

A_SM4_13 SE71260: Tree's shadow at 2:00 p.m. - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1955	35.4	22.6	21.9	33.8	17.3	1.0	3.3	37.2	33.8
	2023	1962	32.5	21.8	24.3	31.5	19.3	1.1	2.0	31.0	34.2
Chile	2019	581	26.2	24.8	22.1	23.8	20.0	3.4	5.9	28.7	24.2
	2023	653	19.7	28.9	25.8	18.1	19.0	1.5	6.8	17.3	22.3
Chinese Taipei	2019	537	65.5	12.4	6.0	65.0	15.9	0.5	0.2	65.2	65.8
	2023	760	74.6	10.4	4.4	74.5	10.6	0.0	0.2	73.5	75.6
Czech Republic	2019	663	43.9	15.2	15.4	43.1	24.5	0.8	1.1	41.5	46.1
	2023	974	39.3	18.9	15.9	38.5	24.8	0.8	1.2	40.9	37.8
Denmark	2019	462	33.0	21.9	15.4	31.9	27.4	1.3	2.1	32.7	33.3
	2023	734	29.3	24.4	16.1	28.1	27.3	1.7	2.4	31.5	27.0
England	2019	481	42.8	19.5	19.4	42.1	17.4	1.0	0.6	42.3	43.3
	2023	574	41.1	16.9	22.2	40.6	19.1	0.6	0.6	39.2	43.3
Finland	2019	673	35.4	15.1	19.1	35.0	29.7	0.8	0.4	36.5	34.6
	2023	814	38.8	14.8	17.1	38.7	29.1	0.1	0.3	39.8	37.9
France	2019	592	32.7	32.4	12.9	31.0	18.6	2.4	2.7	33.2	32.1
	2023	672	36.9	24.1	15.0	35.1	20.9	1.4	3.5	34.2	39.8
Georgia	2019	538	22.0	22.7	16.9	21.0	35.0	1.5	2.9	23.2	20.9
	2023	635	21.9	17.7	25.8	19.5	26.3	1.7	8.9	22.2	21.5
Germany	2019	483	36.9	25.0	11.4	35.3	24.0	1.3	3.0	38.9	34.9
	2023	641	32.7	25.8	15.8	31.8	24.0	0.8	1.7	33.6	31.8
Hong Kong SAR	2019	431	58.4	8.3	9.4	57.2	23.0	0.6	1.4	58.7	58.1
	2023	585	52.4	10.6	11.2	52.2	25.6	0.1	0.3	50.8	54.0
Hungary	2019	664	45.2	22.2	13.2	44.2	18.1	0.7	1.7	47.3	43.5
	2023	739	39.7	21.3	16.3	38.9	21.3	0.7	1.4	40.8	38.7
Italy	2019	528	42.0	24.4	13.3	39.6	16.9	2.5	3.3	42.6	41.4
	2023	633	40.4	17.9	19.4	38.9	20.0	0.9	3.0	37.8	42.8
Korea, Rep. of	2019	564	44.3	26.8	11.4	44.2	17.3	0.3	0.0	41.8	46.6
	2023	619	40.1	26.1	15.6	39.9	17.9	0.2	0.3	37.1	43.7
Lithuania	2019	526	35.2	19.1	18.5	34.7	26.4	0.7	0.6	34.9	35.5
	2023	652	38.5	14.2	14.2	38.3	32.6	0.4	0.2	36.7	40.0
Netherlands	2019	478	29.7	22.6	16.2	29.1	30.0	0.8	1.3	32.6	27.1
	2023	513	35.0	20.7	17.5	34.6	26.2	0.4	0.5	34.7	34.4
Norway (5)	2019	570	39.7	13.8	18.9	38.7	26.1	1.4	1.0	40.0	39.4
	2023	755	32.7	18.0	22.9	31.5	23.9	1.1	2.5	32.8	32.7
Portugal	2019	627	41.7	19.2	15.2	39.4	20.7	2.4	3.0	41.9	41.5
	2023	751	41.7	16.6	13.6	39.9	25.6	1.5	2.9	39.5	43.7
Qatar	2019	707	24.6	24.7	19.9	23.0	25.6	3.2	3.6	22.2	26.9
	2023	912	26.6	26.4	23.1	25.3	20.3	1.0	3.9	28.9	24.3
Singapore	2019	848	53.3	10.5	12.1	52.7	23.6	0.8	0.2	54.1	52.4
	2023	933	48.7	11.9	12.9	48.6	26.5	0.1	0.1	44.9	52.5
Slovak Republic	2019	606	41.3	18.9	12.5	40.2	25.8	1.1	1.5	43.6	38.8
	2023	680	41.2	17.9	13.7	40.8	26.8	0.4	0.5	41.1	41.3
Spain	2019	1349	26.5	23.5	17.9	25.7	29.9	1.0	2.0	28.8	24.5
	2023	1455	27.6	26.3	16.5	26.7	27.2	0.8	2.5	24.9	30.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Reasoning
A_SM4_13 SE71260: Tree's shadow at 2:00 p.m. - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	564	42.2	19.0	13.0	40.9	23.9	1.2	1.9	40.2	44.3
	2023	734	36.8	18.2	17.2	35.6	25.7	1.2	2.2	34.2	39.4
United Arab Emirates	2019	3650	26.5	23.5	17.5	25.3	29.2	1.7	2.7	27.1	26.0
	2023	4936	29.1	23.6	18.1	27.1	24.3	1.5	5.3	28.2	30.0
United States	2019	1250	33.7	21.8	19.6	32.4	22.2	1.1	2.8	34.1	33.3
	2023	1294	35.1	20.4	21.1	33.6	20.6	1.3	3.1	31.5	38.8

International Avg. (25)	2019	20327	38.3	20.4	15.6	37.2	23.5	1.3	2.0	38.8	37.9
	2023	24610	37.3	19.7	17.4	36.3	23.4	0.9	2.2	36.3	38.3

Abu Dhabi, UAE	2019	1270	21.6	30.0	17.6	20.2	25.6	2.8	3.7	24.0	19.7
	2023	1774	25.5	28.6	18.9	23.1	20.1	2.1	7.2	25.0	25.9
Dubai, UAE	2019	1028	35.8	16.1	14.7	35.0	32.1	1.0	1.1	37.0	34.5
	2023	1308	39.9	17.1	16.2	38.4	24.6	0.8	2.9	39.2	40.5
Ontario, Canada	2019	543	35.0	24.3	22.2	33.1	15.0	0.7	4.7	38.8	31.5
	2023	608	33.2	23.2	25.0	31.9	15.9	1.7	2.3	31.0	35.8
Quebec, Canada	2019	545	36.1	22.1	22.9	35.1	17.2	1.0	1.9	33.4	38.9
	2023	557	33.6	20.8	22.9	32.7	20.9	0.7	2.0	33.9	33.4

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

Science: Life Science / Knowing

A_SE2_01 SE71063: Animals that live in the desert (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	62.9	37.1	62.7	0.2	0.0	59.3	66.7
	2023	1936	67.2	32.7	67.1	0.1	0.2	65.8	68.4
Chile	2019	603	49.9	49.7	49.5	0.1	0.7	43.3	57.2
	2023	643	54.6	45.2	54.4	0.0	0.4	50.0	58.6
Chinese Taipei	2019	530	46.1	53.9	46.1	0.0	0.0	34.2	56.6
	2023	453	50.1	49.9	50.1	0.0	0.0	39.9	57.8
Czech Republic	2019	674	46.1	53.6	45.8	0.5	0.0	43.1	48.9
	2023	959	56.4	43.3	56.0	0.0	0.7	52.7	59.7
Denmark	2019	463	57.7	42.1	57.3	0.7	0.0	48.0	66.9
	2023	706	61.1	38.8	60.9	0.1	0.2	54.3	69.1
England	2019	490	63.4	36.5	63.4	0.1	0.0	63.9	63.1
	2023	569	68.9	31.0	68.7	0.0	0.2	69.9	68.1
Finland	2019	673	44.6	55.0	44.3	0.6	0.0	40.4	48.9
	2023	811	50.6	49.4	50.6	0.0	0.0	48.4	52.6
France	2019	596	52.5	47.5	52.5	0.0	0.0	45.0	59.6
	2023	652	62.5	37.4	62.2	0.1	0.4	57.0	67.4
Georgia	2019	536	35.0	64.3	34.6	1.1	0.0	32.4	37.6
	2023	608	37.6	61.8	37.2	0.0	1.0	33.8	41.4
Germany	2019	493	49.2	50.8	49.2	0.0	0.0	41.9	55.9
	2023	622	54.9	45.0	54.7	0.0	0.2	51.1	59.0
Hong Kong SAR	2019	414	46.2	53.7	46.1	0.2	0.0	40.5	50.5
	2023	585	58.2	41.8	58.2	0.0	0.0	56.8	59.6
Hungary	2019	653	50.2	49.7	50.1	0.3	0.0	46.9	53.3
	2023	729	48.4	51.3	48.2	0.0	0.6	48.1	48.7
Italy	2019	530	49.8	50.1	49.7	0.1	0.0	39.8	59.0
	2023	625	50.1	49.7	49.9	0.0	0.4	46.2	54.1
Korea, Rep. of	2019	556	57.3	42.7	57.3	0.0	0.0	46.0	67.6
	2023	384	70.3	29.7	70.3	0.0	0.0	62.6	77.9
Lithuania	2019	539	39.6	60.3	39.5	0.2	0.0	31.3	46.5
	2023	638	44.4	55.6	44.4	0.0	0.0	38.5	50.1
Netherlands	2019	473	58.0	41.6	57.3	1.1	0.0	49.1	65.9
	2023	494	63.4	36.6	63.4	0.0	0.0	59.2	68.0
Norway (5)	2019	554	58.1	41.7	57.9	0.0	0.4	50.1	65.4
	2023	744	67.7	32.2	67.5	0.1	0.2	60.3	75.2
Portugal	2019	621	49.3	50.5	49.1	0.1	0.3	42.7	55.7
	2023	735	60.4	39.6	60.4	0.0	0.0	50.6	70.6
Qatar	2019	704	37.1	61.9	36.5	0.9	0.6	34.4	39.9
	2023	898	46.8	53.0	46.5	0.0	0.4	43.3	50.3
Singapore	2019	849	51.8	48.2	51.8	0.0	0.0	43.2	60.0
	2023	591	56.5	43.5	56.5	0.0	0.0	47.0	66.0
Slovak Republic	2019	610	43.6	56.3	43.6	0.0	0.1	38.9	47.7
	2023	667	48.9	51.0	48.8	0.1	0.0	42.8	55.1
Spain	2019	1367	56.0	43.9	55.9	0.2	0.0	52.7	59.1
	2023	1445	59.4	40.4	59.2	0.2	0.2	53.6	65.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Knowing

A_SE2_01 SE71063: Animals that live in the desert (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	57.3	42.7	57.3	0.0	0.0	56.6	58.1
	2023	719	57.3	42.6	57.0	0.2	0.2	51.1	63.9
United Arab Emirates	2019	3675	42.5	57.4	42.3	0.2	0.1	35.9	48.9
	2023	5629	56.0	43.8	55.7	0.0	0.5	53.8	58.1
United States	2019	1274	70.7	29.2	70.4	0.2	0.2	64.7	76.2
	2023	1291	73.0	26.9	72.9	0.1	0.1	71.0	74.9

International Avg. (25)	2019	20368	51.0	48.8	50.8	0.3	0.1	45.0	56.6
	2023	24133	57.0	42.9	56.8	0.0	0.2	52.3	61.6

Abu Dhabi, UAE	2019	1277	35.5	64.1	35.4	0.4	0.1	30.9	39.7
	2023	2510	49.5	50.1	49.1	0.0	0.7	48.2	50.8
Dubai, UAE	2019	1048	57.3	42.7	57.3	0.1	0.0	50.3	64.1
	2023	1311	68.2	31.7	68.1	0.0	0.2	66.4	69.9
Ontario, Canada	2019	541	58.9	41.1	58.9	0.0	0.0	56.1	61.6
	2023	596	65.6	34.4	65.4	0.1	0.1	65.7	64.8
Quebec, Canada	2019	540	71.4	28.5	71.2	0.3	0.0	68.5	74.5
	2023	545	67.5	32.4	67.3	0.0	0.3	67.2	67.7

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

Science: Life Science / Applying

A_SE2_02 SE71900: Identify another life stage of a caterpillar - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	76.2	4.7	8.3	75.5	10.6	0.9	0.0	74.6	78.0
	2023	1936	78.8	3.1	7.4	78.6	10.6	0.1	0.2	80.4	77.0
Chile	2019	603	75.6	4.1	6.6	74.9	13.5	0.2	0.7	72.8	78.7
	2023	643	83.7	3.3	4.1	83.0	8.8	0.4	0.4	85.7	82.0
Chinese Taipei	2019	530	78.4	2.9	4.2	78.1	14.5	0.4	0.0	75.3	81.1
	2023	453	80.9	2.7	2.9	80.9	13.5	0.0	0.0	79.8	81.7
Czech Republic	2019	674	60.4	8.5	18.2	60.0	12.6	0.6	0.0	55.4	65.1
	2023	959	62.6	8.0	15.7	61.4	13.1	1.2	0.7	63.5	61.7
Denmark	2019	463	65.4	8.9	7.0	64.1	18.0	2.0	0.0	64.8	66.0
	2023	706	67.0	7.5	7.7	66.2	17.3	1.1	0.2	71.0	62.4
England	2019	490	83.0	3.7	4.9	82.5	8.3	0.6	0.0	83.8	82.3
	2023	569	84.3	3.7	5.3	84.0	6.7	0.1	0.2	83.6	84.7
Finland	2019	673	66.8	6.8	4.6	65.7	21.3	1.6	0.0	67.7	65.8
	2023	811	74.3	4.8	3.4	74.1	17.5	0.1	0.0	79.2	69.4
France	2019	596	58.1	6.4	10.4	56.9	24.2	2.2	0.0	58.2	58.0
	2023	652	68.4	4.9	7.8	67.8	18.5	0.5	0.4	66.6	70.0
Georgia	2019	535	51.2	9.7	4.5	49.8	33.3	2.6	0.0	49.9	52.5
	2023	608	62.8	6.5	5.0	61.5	25.0	1.0	1.0	67.6	58.0
Germany	2019	493	57.8	7.9	16.0	57.1	17.9	1.2	0.0	57.7	57.8
	2023	622	64.5	6.9	12.9	63.8	15.4	0.7	0.2	67.1	61.6
Hong Kong SAR	2019	414	79.7	5.1	3.3	79.2	11.7	0.6	0.0	82.6	77.6
	2023	584	81.1	3.0	2.9	81.1	12.9	0.0	0.0	78.3	83.9
Hungary	2019	653	75.0	5.7	1.4	74.7	17.8	0.3	0.0	75.5	74.5
	2023	729	80.2	4.4	2.2	79.7	13.1	0.0	0.6	82.6	77.6
Italy	2019	530	60.0	5.6	10.9	59.5	23.1	0.9	0.0	59.7	60.3
	2023	625	70.4	4.4	8.2	69.4	16.6	1.2	0.4	71.5	69.3
Lithuania	2019	539	68.4	4.8	7.2	67.8	19.4	0.8	0.0	68.2	68.5
	2023	638	74.0	5.1	6.0	74.0	14.8	0.0	0.0	78.1	70.1
Netherlands	2019	473	64.1	7.3	9.5	63.6	18.8	0.8	0.0	67.0	61.6
	2023	494	71.0	5.6	8.6	70.9	14.8	0.1	0.0	71.1	71.0
Norway (5)	2019	554	59.9	7.7	12.0	58.3	19.4	2.1	0.4	54.4	64.7
	2023	744	63.0	7.1	12.8	61.7	16.4	1.7	0.3	64.5	61.5
Portugal	2019	621	70.1	5.1	4.6	69.7	20.1	0.3	0.3	73.6	66.7
	2023	735	79.8	2.5	3.0	79.8	14.8	0.0	0.0	78.0	81.6
Qatar	2019	704	67.0	5.6	12.4	66.2	14.7	0.3	0.9	72.0	61.8
	2023	898	72.1	5.6	6.1	71.7	16.0	0.2	0.4	75.4	68.7
Singapore	2019	849	89.0	1.3	3.2	88.5	6.5	0.6	0.0	90.9	87.2
	2023	591	84.5	1.9	4.7	84.5	8.9	0.0	0.0	83.2	85.9
Slovak Republic	2019	610	68.2	9.7	3.2	67.6	18.7	0.8	0.1	71.1	65.8
	2023	667	81.9	3.5	3.6	81.9	11.1	0.0	0.0	83.2	80.5
Spain	2019	1367	63.7	6.9	8.4	63.3	20.9	0.5	0.0	62.3	64.9
	2023	1445	70.5	5.2	7.3	70.1	16.9	0.2	0.4	71.3	69.7
Sweden	2019	568	59.8	8.9	11.3	58.3	19.0	2.6	0.0	63.9	55.8
	2023	719	59.0	9.7	13.8	58.6	17.1	0.6	0.2	63.4	54.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Applying

A_SE2_02 SE71900: Identify another life stage of a caterpillar - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
United Arab Emirates	2019	3676	75.9	5.0	6.7	75.2	12.2	0.7	0.2	79.3	72.4
	2023	5629	78.3	3.8	5.3	77.7	12.4	0.2	0.5	79.5	77.2
United States	2019	1274	89.1	1.9	4.1	88.7	4.8	0.2	0.2	91.1	87.4
	2023	1291	86.2	2.2	4.1	86.0	7.5	0.1	0.1	87.2	85.2
International Avg. (24)	2019	19812	69.3	6.0	7.6	68.6	16.7	1.0	0.1	69.6	68.9
	2023	23748	74.1	4.8	6.7	73.7	14.1	0.4	0.3	75.5	72.7
Abu Dhabi, UAE	2019	1278	69.2	7.1	8.9	68.5	14.4	1.0	0.1	74.1	64.0
	2023	2510	70.5	5.9	6.6	69.7	16.8	0.4	0.7	70.6	70.3
Dubai, UAE	2019	1048	85.4	1.9	5.0	85.1	7.7	0.4	0.0	87.6	83.2
	2023	1311	88.5	1.9	3.7	88.3	5.9	0.0	0.2	90.1	87.2
Ontario, Canada	2019	541	82.6	2.1	7.5	81.6	7.5	1.2	0.0	83.1	82.3
	2023	596	86.6	1.9	4.6	86.5	6.9	0.1	0.1	87.1	85.8
Quebec, Canada	2019	540	63.1	10.0	11.3	62.8	15.4	0.5	0.0	57.8	69.0
	2023	545	65.5	4.5	13.7	65.2	16.1	0.1	0.3	67.1	64.0

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

Science: Life Science / Reasoning

A_SE2_04 SE71043: Compare offspring chances of survival for elephant and frog - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	25.7	71.6	24.8	3.6	0.0	25.3	26.2
	2023	1936	25.4	72.4	24.6	2.7	0.3	25.8	24.6
Chile	2019	603	12.4	82.0	11.6	5.6	0.8	10.5	14.6
	2023	643	11.3	81.6	10.4	7.4	0.6	12.4	10.4
Chinese Taipei	2019	530	26.1	70.6	25.0	4.4	0.0	24.0	28.0
	2023	453	20.3	77.6	19.7	2.7	0.0	21.9	19.1
Czech Republic	2019	674	23.3	69.2	21.0	9.8	0.0	20.4	26.1
	2023	959	21.9	71.8	20.1	7.5	0.7	24.9	19.2
Denmark	2019	463	18.3	78.6	17.6	3.6	0.3	15.1	21.3
	2023	706	27.4	69.6	26.3	3.4	0.6	27.2	27.7
England	2019	490	20.6	75.9	19.7	4.4	0.0	20.5	20.6
	2023	569	31.1	66.3	30.0	3.5	0.2	31.0	31.2
Finland	2019	673	28.2	69.2	27.2	3.7	0.0	27.5	29.0
	2023	811	23.4	74.1	22.7	3.2	0.0	26.8	20.1
France	2019	596	19.7	69.0	16.9	14.0	0.0	19.6	19.7
	2023	652	16.7	74.2	14.9	10.4	0.5	15.2	18.1
Georgia	2019	536	23.9	63.0	19.8	17.0	0.1	22.7	25.0
	2023	608	31.9	57.1	26.7	15.1	1.1	25.9	37.5
Germany	2019	493	18.9	75.5	17.6	6.9	0.0	17.5	20.1
	2023	622	29.2	66.5	27.4	5.8	0.2	29.6	28.7
Hong Kong SAR	2019	414	20.1	76.5	19.3	4.2	0.0	22.9	18.0
	2023	585	18.0	76.0	16.7	7.3	0.0	16.2	19.9
Hungary	2019	653	19.7	77.4	19.0	3.5	0.0	17.2	22.0
	2023	728	25.8	71.3	24.7	3.4	0.6	25.5	26.1
Italy	2019	530	21.8	69.2	19.3	11.5	0.0	21.9	21.6
	2023	625	19.8	69.0	17.0	13.4	0.6	18.8	20.7
Korea, Rep. of	2019	556	36.6	62.7	36.2	1.2	0.0	31.0	41.9
	2023	384	41.4	56.5	40.0	3.5	0.0	37.7	44.9
Lithuania	2019	539	20.8	74.6	19.6	5.8	0.0	18.9	22.4
	2023	638	22.9	75.1	22.3	2.7	0.0	20.2	25.5
Netherlands	2019	473	19.8	77.3	19.1	3.6	0.0	15.8	23.5
	2023	494	23.1	74.5	22.4	3.0	0.1	26.7	18.6
Norway (5)	2019	554	19.3	77.9	18.6	3.0	0.4	19.7	19.0
	2023	744	19.8	78.7	19.5	1.5	0.4	23.0	16.6
Portugal	2019	621	20.0	73.4	18.3	7.9	0.3	20.9	19.1
	2023	735	21.1	73.8	19.7	6.3	0.1	19.0	23.2
Qatar	2019	704	17.6	74.0	15.8	9.0	1.1	18.9	16.2
	2023	898	15.2	79.0	14.2	6.4	0.4	12.1	18.5
Singapore	2019	849	41.1	58.3	40.8	0.9	0.0	39.6	42.6
	2023	591	39.2	60.1	38.7	1.3	0.0	35.3	43.0
Slovak Republic	2019	610	21.6	70.2	19.4	10.3	0.1	20.5	22.6
	2023	667	19.8	76.9	19.0	4.0	0.0	20.4	19.2
Spain	2019	1367	22.5	71.4	20.8	7.6	0.2	21.1	23.9
	2023	1444	19.9	71.8	17.8	9.8	0.6	23.1	16.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning

A_SE2_04 SE71043: Compare offspring chances of survival for elephant and frog - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	23.3	73.4	22.3	4.2	0.1	28.7	17.8
	2023	719	29.2	67.9	28.0	4.0	0.2	27.0	31.5
United Arab Emirates	2019	3679	15.1	79.6	14.2	6.0	0.2	15.0	15.3
	2023	5626	14.9	80.6	14.1	4.5	0.8	15.0	14.9
United States	2019	1274	23.4	75.7	23.1	1.0	0.2	23.2	23.5
	2023	1291	29.1	69.8	28.7	1.3	0.2	29.2	29.1

International Avg. (25)	2019	20372	22.4	72.6	21.1	6.1	0.2	21.5	23.2
	2023	24128	23.9	71.7	22.6	5.4	0.3	23.6	24.2

Abu Dhabi, UAE	2019	1281	9.3	84.9	8.7	6.2	0.1	9.4	9.1
	2023	2509	11.2	83.5	10.5	5.0	1.0	10.9	11.5
Dubai, UAE	2019	1048	22.2	75.5	21.5	3.0	0.0	20.3	24.0
	2023	1311	21.5	76.9	21.1	1.8	0.2	21.9	21.1
Ontario, Canada	2019	541	23.3	74.3	22.5	3.1	0.0	24.2	22.3
	2023	596	24.5	72.8	23.6	3.5	0.2	22.9	25.3
Quebec, Canada	2019	540	31.3	66.5	30.3	3.2	0.0	29.9	32.8
	2023	545	25.4	72.8	24.8	2.1	0.3	27.8	23.3

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

Science: Life Science / Applying
A_SE2_05 SE71005: Why plant by the window is healthier - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	72.8	26.4	70.8	2.7	0.1	73.2	72.4
	2023	1936	72.9	26.6	71.7	1.2	0.5	72.9	72.8
Chile	2019	603	42.4	55.1	40.5	3.2	1.2	43.2	41.5
	2023	643	74.3	24.5	70.8	3.6	1.1	76.4	72.4
Chinese Taipei	2019	530	80.1	19.8	79.5	0.7	0.0	82.2	78.2
	2023	453	82.9	16.9	81.9	1.3	0.0	82.3	83.3
Czech Republic	2019	674	77.5	21.8	75.2	3.0	0.0	79.6	75.6
	2023	959	71.7	27.6	69.9	1.8	0.7	72.6	70.8
Denmark	2019	463	70.2	28.8	67.7	3.0	0.5	71.7	68.6
	2023	706	87.4	12.2	84.5	2.5	0.8	88.6	86.0
England	2019	490	68.9	30.0	66.3	3.7	0.0	70.9	67.0
	2023	568	90.5	9.4	89.4	1.0	0.2	93.8	88.3
Finland	2019	673	93.2	6.7	91.8	1.5	0.0	96.1	90.2
	2023	811	92.1	7.8	90.2	2.0	0.0	93.8	90.4
France	2019	596	64.6	32.5	59.4	7.9	0.2	60.8	68.3
	2023	652	72.0	26.2	67.3	5.5	1.1	69.6	74.1
Georgia	2019	535	42.8	50.0	37.4	12.4	0.2	45.0	40.6
	2023	608	65.7	30.2	57.7	8.8	3.3	67.4	63.9
Germany	2019	493	81.7	17.4	77.9	4.7	0.0	82.5	81.1
	2023	622	77.2	22.2	75.0	2.3	0.6	80.3	73.7
Hong Kong SAR	2019	414	66.8	32.4	65.1	2.4	0.0	65.9	67.4
	2023	585	77.6	21.5	74.3	4.2	0.0	78.8	76.3
Hungary	2019	653	73.2	26.0	71.1	2.9	0.0	70.6	75.6
	2023	728	67.0	32.0	65.1	2.0	1.0	72.6	61.1
Italy	2019	530	66.2	32.6	63.9	3.2	0.4	66.8	65.7
	2023	625	76.1	22.6	72.1	4.4	0.8	75.6	76.6
Korea, Rep. of	2019	556	92.2	7.8	91.8	0.4	0.0	95.2	89.3
	2023	384	86.5	13.4	85.5	1.1	0.0	85.0	87.9
Lithuania	2019	539	81.0	18.6	79.6	1.7	0.0	80.9	81.2
	2023	638	82.9	16.9	82.3	0.8	0.0	85.1	80.8
Netherlands	2019	473	73.0	26.2	71.0	2.8	0.0	74.6	71.6
	2023	494	83.4	16.5	82.7	0.7	0.1	82.7	83.9
Norway (5)	2019	554	84.5	15.1	82.4	2.0	0.4	84.8	84.2
	2023	744	82.7	17.1	81.4	1.2	0.4	88.6	76.6
Portugal	2019	621	79.2	20.4	77.4	1.8	0.5	80.2	78.2
	2023	735	82.2	17.6	81.0	1.2	0.2	80.8	83.7
Qatar	2019	704	59.4	37.7	55.2	5.4	1.7	61.7	56.9
	2023	898	64.9	33.6	62.1	3.4	0.9	66.5	63.2
Singapore	2019	849	79.6	20.3	79.2	0.5	0.0	79.1	80.1
	2023	591	84.9	15.0	84.6	0.4	0.0	82.0	87.8
Slovak Republic	2019	610	51.9	46.7	50.4	2.8	0.1	52.2	51.7
	2023	667	77.4	22.0	75.3	2.7	0.0	82.1	72.6
Spain	2019	1367	78.1	21.4	76.0	2.2	0.5	80.7	75.6
	2023	1444	61.4	36.9	58.7	3.8	0.6	61.2	61.5

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

Science: Life Science / Applying
A_SE2_05 SE71005: Why plant by the window is healthier - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	75.6	23.5	73.0	3.4	0.1	78.7	72.5
	2023	719	83.4	16.3	81.7	1.8	0.2	86.7	79.7
United Arab Emirates	2019	3675	43.5	54.6	42.0	2.9	0.5	45.1	41.7
	2023	5628	69.6	29.1	66.7	2.8	1.3	71.3	68.0
United States	2019	1274	73.5	26.0	72.1	1.6	0.2	73.9	73.2
	2023	1291	82.2	17.5	80.9	1.1	0.4	83.0	81.4

International Avg. (25)	2019	20367	70.9	27.9	68.7	3.1	0.3	71.8	69.9
	2023	24129	77.9	21.3	75.7	2.5	0.6	79.2	76.7

Abu Dhabi, UAE	2019	1277	28.2	68.9	27.1	3.5	0.5	29.9	25.9
	2023	2510	59.0	38.7	55.8	3.7	1.8	60.0	58.1
Dubai, UAE	2019	1048	56.1	43.3	55.3	1.4	0.0	58.4	53.9
	2023	1311	85.6	14.2	84.6	0.9	0.3	87.8	83.7
Ontario, Canada	2019	541	75.6	23.9	73.8	2.3	0.0	75.7	75.5
	2023	596	75.8	23.8	74.5	1.2	0.5	74.7	76.6
Quebec, Canada	2019	540	65.0	34.3	63.8	1.8	0.0	63.4	66.8
	2023	545	67.0	32.5	66.0	1.3	0.3	67.3	66.7

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

Science: Physical Science / Applying

A_SE2_06 SE71118: What happens when water boils - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	30.4	28.1	25.5	30.0	15.1	0.8	0.5	26.5	34.5
	2023	1936	29.9	23.3	33.2	29.4	12.5	1.0	0.7	27.4	31.9
Chile	2019	603	29.9	30.3	28.6	28.8	8.6	2.4	1.3	30.2	29.5
	2023	643	35.2	23.9	27.7	33.9	10.9	2.4	1.2	37.8	33.0
Chinese Taipei	2019	530	51.4	16.1	21.6	50.9	10.5	0.7	0.2	43.9	57.9
	2023	453	58.9	10.7	20.4	58.9	10.1	0.0	0.0	54.0	62.5
Czech Republic	2019	674	35.6	25.1	20.0	35.0	18.0	1.9	0.0	35.3	36.0
	2023	959	41.0	22.0	22.7	40.3	13.2	1.0	0.8	35.3	46.1
Denmark	2019	463	16.2	24.8	30.0	15.7	26.5	2.4	0.5	11.7	20.4
	2023	706	18.8	25.5	28.0	18.3	25.7	1.6	0.9	17.7	20.1
England	2019	490	43.3	25.2	17.8	42.8	13.1	0.5	0.6	36.3	49.5
	2023	569	49.2	20.9	21.0	48.7	8.4	0.7	0.2	49.1	50.3
Finland	2019	673	38.8	20.3	23.3	38.0	16.4	1.8	0.2	37.8	39.8
	2023	811	38.6	20.6	27.0	38.2	13.0	1.2	0.0	39.5	37.8
France	2019	596	31.3	25.6	29.9	30.0	10.3	3.7	0.5	30.9	31.7
	2023	652	32.4	25.7	28.4	30.8	10.4	3.2	1.4	28.2	36.0
Georgia	2019	536	38.0	24.6	25.6	36.5	9.4	3.2	0.7	34.8	41.1
	2023	608	41.3	18.6	24.7	38.5	11.5	3.0	3.7	41.4	41.2
Germany	2019	493	31.6	20.3	18.5	30.2	26.6	3.7	0.6	29.5	33.4
	2023	622	41.5	16.4	19.8	40.2	20.5	1.8	1.3	38.0	45.3
Hong Kong SAR	2019	414	51.2	15.2	24.1	50.8	9.0	0.8	0.0	47.8	53.8
	2023	585	48.4	18.1	23.5	48.3	10.1	0.1	0.0	43.7	53.0
Hungary	2019	653	37.2	23.0	21.2	36.7	17.8	0.5	0.7	38.2	36.3
	2023	729	45.0	17.0	20.3	44.5	17.1	0.1	1.0	43.1	47.0
Italy	2019	530	57.1	20.4	17.1	55.2	3.9	2.7	0.5	56.0	58.1
	2023	625	57.0	18.2	18.0	55.7	5.9	1.1	1.1	51.4	62.5
Korea, Rep. of	2019	556	68.5	7.0	11.9	68.3	12.5	0.2	0.0	65.9	70.7
	2023	384	69.6	5.6	10.4	69.5	14.3	0.1	0.0	66.1	73.0
Lithuania	2019	539	37.3	21.0	16.4	36.9	24.7	1.0	0.0	38.5	36.3
	2023	638	40.4	15.4	26.4	40.1	17.4	0.6	0.0	40.2	40.5
Netherlands	2019	473	21.3	32.3	26.5	20.7	17.7	2.8	0.0	18.7	23.7
	2023	494	17.0	35.8	30.7	16.9	15.9	0.5	0.1	15.2	19.1
Norway (5)	2019	554	33.2	21.4	31.5	32.5	12.4	1.6	0.5	30.0	36.3
	2023	744	37.4	23.2	28.9	36.9	9.8	0.9	0.4	35.4	39.3
Portugal	2019	621	29.6	22.9	26.2	29.0	19.7	1.2	0.9	23.8	35.5
	2023	735	36.6	16.4	31.9	36.1	14.3	0.6	0.6	29.8	43.5
Qatar	2019	704	38.8	22.5	26.9	36.9	8.8	2.4	2.6	40.5	37.1
	2023	898	42.5	24.5	23.3	41.4	8.3	1.2	1.3	42.4	42.5
Singapore	2019	849	59.0	14.4	14.1	58.6	12.2	0.6	0.0	55.4	62.4
	2023	591	61.0	10.4	17.5	61.0	11.0	0.0	0.0	55.0	66.9
Slovak Republic	2019	610	36.5	21.7	19.8	35.4	20.2	2.8	0.1	38.4	34.8
	2023	667	39.2	23.6	20.4	39.1	16.6	0.4	0.0	37.6	40.8
Spain	2019	1367	50.5	16.3	26.0	49.6	6.4	0.8	0.8	44.1	56.1
	2023	1445	45.6	18.6	29.3	44.8	5.4	1.1	0.8	47.0	44.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Applying

A_SE2_06 SE71118: What happens when water boils - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	51.8	22.0	17.7	51.0	7.8	1.3	0.1	48.1	55.4
	2023	719	57.7	19.0	16.9	56.5	5.6	1.3	0.8	58.1	57.2
United Arab Emirates	2019	3671	44.9	25.4	22.7	44.0	5.8	1.3	0.8	44.1	45.8
	2023	5628	44.4	24.7	23.9	43.2	5.6	0.8	1.9	41.6	47.0
United States	2019	1274	34.0	24.6	30.0	33.5	10.3	1.0	0.5	30.7	37.1
	2023	1291	30.5	28.2	32.7	30.2	7.8	0.4	0.8	28.0	32.9

International Avg. (25)	2019	20364	39.9	22.0	22.9	39.1	13.8	1.7	0.5	37.5	42.1
	2023	24132	42.4	20.2	24.3	41.7	12.0	1.0	0.8	40.1	44.5

Abu Dhabi, UAE	2019	1275	36.9	29.0	26.0	36.0	6.7	1.5	0.9	33.1	40.7
	2023	2510	36.4	28.2	26.0	35.0	6.9	0.9	2.9	34.3	38.5
Dubai, UAE	2019	1048	53.1	21.7	19.9	52.6	4.9	0.8	0.2	50.5	55.5
	2023	1311	55.8	18.0	21.9	55.3	4.0	0.3	0.5	53.7	57.6
Ontario, Canada	2019	541	30.1	29.9	25.6	29.9	13.8	0.3	0.5	27.0	33.0
	2023	596	28.5	21.4	36.4	28.0	12.3	1.0	0.8	28.0	28.2
Quebec, Canada	2019	540	32.9	23.0	24.4	32.7	19.1	0.5	0.3	24.2	42.3
	2023	545	32.3	24.0	30.2	31.8	12.6	0.9	0.5	28.9	35.4

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

Science: Physical Science / Knowing
A_SE2_07 SE71139: Energy change in an iron - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	70.4	68.9	11.4	7.0	10.6	1.6	0.5	68.9	71.9
	2023	1936	74.2	73.3	10.2	4.4	10.8	0.3	0.9	70.1	78.3
Chile	2019	603	64.1	61.2	13.1	9.7	11.5	2.4	2.2	64.2	64.0
	2023	643	67.2	64.9	9.5	11.1	11.1	1.6	1.8	69.4	65.3
Chinese Taipei	2019	530	87.3	86.1	7.5	3.2	1.9	0.9	0.4	87.2	87.3
	2023	453	87.3	87.3	6.1	4.5	2.2	0.0	0.0	83.4	90.2
Czech Republic	2019	674	75.2	74.2	8.8	8.0	7.7	1.4	0.0	73.2	77.0
	2023	959	77.7	76.3	7.3	6.2	8.4	0.9	0.9	75.5	79.7
Denmark	2019	463	67.7	65.8	13.0	9.6	8.8	1.9	0.9	65.0	70.3
	2023	706	71.4	69.5	10.9	7.4	9.5	1.6	1.2	68.6	74.8
England	2019	490	66.9	66.0	13.1	9.1	10.4	0.8	0.6	67.1	66.7
	2023	569	76.1	75.3	10.7	5.5	7.4	0.9	0.2	73.8	78.6
Finland	2019	673	85.0	83.4	7.7	3.5	3.7	1.4	0.4	82.5	87.5
	2023	811	84.2	84.0	5.5	4.2	6.1	0.2	0.0	84.8	83.6
France	2019	596	71.2	68.2	11.2	6.4	10.1	3.6	0.5	71.5	70.9
	2023	652	71.5	69.6	11.5	6.3	10.1	0.7	1.9	70.4	72.4
Georgia	2019	536	66.4	62.6	8.3	9.2	14.1	4.8	0.9	65.2	67.6
	2023	608	70.8	66.0	9.6	8.1	9.5	2.0	4.8	69.4	72.3
Germany	2019	493	71.3	69.1	15.4	6.1	6.4	1.6	1.4	66.0	76.0
	2023	622	73.7	72.0	13.6	5.5	6.5	0.4	2.0	69.4	78.4
Hong Kong SAR	2019	414	79.7	78.7	8.9	5.5	5.7	1.0	0.2	76.6	82.1
	2023	585	78.6	78.5	9.0	5.6	6.7	0.1	0.0	77.3	79.9
Hungary	2019	653	56.3	55.0	14.4	14.9	13.5	1.2	1.1	56.1	56.4
	2023	729	57.3	56.6	17.4	13.9	10.9	0.2	1.0	53.5	61.2
Italy	2019	530	71.6	69.9	11.6	8.3	7.8	1.3	1.0	69.7	73.3
	2023	625	77.7	75.7	9.4	5.9	6.5	0.7	1.8	76.3	78.9
Korea, Rep. of	2019	556	84.3	83.9	6.0	4.0	5.6	0.4	0.0	79.2	89.4
	2023	384	84.0	84.0	8.3	4.0	3.8	0.0	0.0	81.8	86.1
Lithuania	2019	539	82.1	81.7	7.3	4.4	6.2	0.5	0.0	83.1	81.2
	2023	638	78.2	77.9	7.7	7.1	6.9	0.4	0.0	77.0	79.3
Netherlands	2019	473	65.5	63.6	14.7	9.4	9.4	2.9	0.0	63.3	67.5
	2023	494	71.8	70.7	11.2	8.0	8.5	1.4	0.1	69.8	74.2
Norway (5)	2019	554	80.6	78.0	7.1	6.9	4.8	2.6	0.6	80.0	81.0
	2023	744	76.6	75.8	9.9	6.8	6.4	0.4	0.6	74.9	78.4
Portugal	2019	621	58.5	57.4	12.7	15.1	12.9	0.9	1.0	54.4	62.5
	2023	735	64.9	63.9	11.3	9.9	13.4	0.8	0.9	60.7	69.2
Qatar	2019	704	65.3	62.2	16.0	9.0	8.1	1.8	2.9	65.6	64.9
	2023	898	74.2	72.3	12.5	5.8	6.8	0.4	2.3	73.6	74.8
Singapore	2019	849	79.3	78.6	10.6	3.7	6.1	0.9	0.1	78.3	80.4
	2023	591	80.1	80.1	9.7	4.2	5.9	0.0	0.0	75.0	85.1
Slovak Republic	2019	610	75.0	73.2	8.8	7.8	7.8	2.3	0.1	76.5	73.7
	2023	667	77.4	77.0	7.9	5.8	8.8	0.5	0.0	73.9	80.9
Spain	2019	1367	66.5	64.8	11.7	11.6	9.4	1.7	0.9	64.0	68.7
	2023	1445	69.9	68.8	11.0	8.5	10.0	0.6	1.1	67.1	72.8

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

Science: Physical Science / Knowing

A_SE2_07 SE71139: Energy change in an iron - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	80.5	78.9	7.4	4.0	7.7	1.8	0.2	81.5	79.6
	2023	719	75.2	73.7	11.6	7.7	5.1	1.1	0.9	70.6	80.0
United Arab Emirates	2019	3676	69.1	67.1	14.1	8.8	7.1	2.0	0.9	70.6	67.7
	2023	5629	76.3	74.1	11.2	6.8	5.1	0.3	2.4	74.5	77.9
United States	2019	1274	73.6	72.0	8.9	7.5	9.4	1.4	0.7	72.8	74.3
	2023	1291	74.1	73.2	10.2	7.6	7.8	0.3	1.0	70.5	77.5

International Avg. (25)	2019	20369	72.5	70.8	10.8	7.7	8.3	1.7	0.7	71.3	73.7
	2023	24133	74.8	73.6	10.1	6.8	7.8	0.6	1.0	72.4	77.2

Abu Dhabi, UAE	2019	1279	56.2	54.0	17.4	13.7	11.0	2.8	1.0	56.9	55.5
	2023	2510	68.8	66.1	14.8	9.0	6.2	0.3	3.6	65.8	71.7
Dubai, UAE	2019	1048	82.2	81.2	9.1	4.0	4.5	1.0	0.2	82.2	82.2
	2023	1311	85.4	84.9	6.5	4.4	3.6	0.1	0.6	85.0	85.8
Ontario, Canada	2019	541	68.0	66.9	12.1	7.4	12.0	1.0	0.5	67.2	68.7
	2023	596	77.2	76.2	11.0	2.7	8.8	0.4	0.9	70.7	84.5
Quebec, Canada	2019	540	73.0	71.7	10.8	7.4	8.2	1.6	0.3	68.6	77.8
	2023	545	70.4	69.9	9.4	5.8	14.1	0.0	0.7	67.6	73.0

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

Science: Physical Science / Knowing

A_SE2_08 SE71114: Objects Joseph can pick up with a magnet (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	60.9	38.4	59.9	1.0	0.8	56.5	65.6
	2023	1936	65.1	34.5	64.3	0.3	0.9	65.5	64.4
Chile	2019	603	57.2	41.5	55.5	0.7	2.4	53.5	61.5
	2023	643	58.2	40.7	56.5	0.8	2.0	58.8	57.6
Chinese Taipei	2019	530	84.2	15.7	83.7	0.2	0.4	85.4	83.3
	2023	453	88.7	11.3	88.7	0.0	0.0	88.4	88.8
Czech Republic	2019	674	74.4	25.6	74.2	0.3	0.0	74.9	73.8
	2023	959	75.5	24.3	74.8	0.0	0.9	72.7	78.0
Denmark	2019	463	65.3	33.9	63.9	0.9	1.2	61.9	68.6
	2023	706	69.3	30.1	68.0	0.8	1.2	69.9	68.6
England	2019	490	68.0	31.7	67.5	0.1	0.6	68.4	67.7
	2023	569	77.0	22.9	76.8	0.0	0.2	78.2	76.7
Finland	2019	673	68.5	31.3	68.0	0.3	0.4	69.9	67.1
	2023	811	72.5	27.4	72.4	0.1	0.0	73.1	71.9
France	2019	596	49.0	50.0	48.1	1.1	0.9	45.8	52.2
	2023	652	50.6	48.1	49.2	0.4	2.3	46.0	54.8
Georgia	2019	535	56.4	42.2	54.7	1.8	1.3	53.9	58.8
	2023	608	54.0	42.7	50.2	1.2	5.9	53.9	54.1
Germany	2019	493	73.3	26.1	71.9	0.2	1.7	74.0	72.8
	2023	622	76.0	23.5	74.4	0.0	2.1	74.4	77.7
Hong Kong SAR	2019	414	71.0	28.9	70.7	0.2	0.2	71.9	70.3
	2023	585	71.1	28.8	71.0	0.1	0.0	71.6	70.7
Hungary	2019	653	62.7	36.9	61.9	0.1	1.1	59.4	65.6
	2023	729	66.6	33.0	65.6	0.5	1.0	65.6	67.6
Italy	2019	530	66.9	32.2	65.0	1.8	1.0	64.1	69.4
	2023	625	65.6	33.6	64.0	0.4	2.0	59.7	71.4
Korea, Rep. of	2019	556	86.4	13.6	86.3	0.1	0.0	87.1	85.7
	2023	384	81.8	18.2	81.8	0.0	0.0	81.4	82.2
Lithuania	2019	539	75.3	24.6	74.9	0.5	0.0	73.6	76.8
	2023	638	74.3	25.7	74.2	0.1	0.0	74.6	73.9
Netherlands	2019	473	72.0	27.7	71.2	1.1	0.0	69.4	74.3
	2023	494	73.3	26.6	73.2	0.0	0.1	74.2	72.0
Norway (5)	2019	554	73.0	26.6	71.9	0.8	0.7	74.4	71.7
	2023	744	68.5	31.3	68.0	0.1	0.6	69.6	67.3
Portugal	2019	621	69.8	29.8	68.7	0.8	0.7	68.4	71.1
	2023	735	67.6	31.7	66.3	0.5	1.4	62.5	72.9
Qatar	2019	704	45.7	51.7	43.4	1.7	3.2	48.9	42.2
	2023	898	56.0	42.7	54.3	0.5	2.5	53.9	58.0
Singapore	2019	849	89.6	10.4	89.4	0.2	0.1	89.7	89.6
	2023	591	88.9	11.1	88.9	0.0	0.0	85.1	92.7
Slovak Republic	2019	610	80.6	19.4	80.4	0.1	0.1	79.0	82.0
	2023	667	78.7	21.1	78.1	0.7	0.1	79.1	78.3
Spain	2019	1367	62.9	36.7	62.1	0.4	0.9	61.2	64.4
	2023	1445	65.4	33.9	64.2	0.5	1.4	66.6	64.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SE2_08 SE71114: Objects Joseph can pick up with a magnet (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	69.4	30.1	68.2	1.5	0.2	72.6	66.2
	2023	719	68.1	31.6	67.5	0.0	0.9	68.5	67.7
United Arab Emirates	2019	3675	52.8	46.3	51.9	0.7	1.1	53.7	52.1
	2023	5629	60.0	38.8	58.2	0.4	2.6	60.0	60.0
United States	2019	1274	74.9	24.8	74.1	0.5	0.7	73.2	76.6
	2023	1291	72.6	27.1	71.8	0.1	1.0	72.1	73.1

International Avg. (25)	2019	20367	68.4	31.0	67.5	0.7	0.8	67.6	69.2
	2023	24133	69.8	29.6	68.9	0.3	1.2	69.0	70.6

Abu Dhabi, UAE	2019	1278	40.6	58.2	39.7	0.9	1.2	41.5	39.7
	2023	2510	50.1	47.9	48.0	0.3	3.8	51.0	49.1
Dubai, UAE	2019	1048	70.8	29.0	70.2	0.5	0.3	70.4	71.2
	2023	1311	76.2	23.6	75.7	0.1	0.6	76.3	76.2
Ontario, Canada	2019	541	59.9	39.3	58.7	1.0	1.1	53.2	66.4
	2023	596	69.9	29.6	68.9	0.5	1.0	69.7	69.9
Quebec, Canada	2019	540	60.6	39.1	60.2	0.4	0.3	55.5	66.2
	2023	545	52.3	47.3	51.9	0.1	0.7	53.6	51.1

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

Science: Physical Science / Applying
A_SE2_09 SE71131: Circuit where the bulb is lit - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Chile	2019	603	15.8	80.4	15.1	2.1	2.4	15.1	16.6
	2023	643	27.7	67.9	26.0	3.7	2.4	29.0	26.6
Chinese Taipei	2019	530	87.3	12.6	87.0	0.0	0.4	91.7	83.5
	2023	453	85.2	14.8	85.2	0.0	0.0	90.8	80.9
Czech Republic	2019	674	60.8	38.8	60.1	1.0	0.0	57.4	63.9
	2023	959	67.0	32.4	65.8	0.9	0.9	70.1	64.4
Denmark	2019	463	37.2	60.9	36.1	1.7	1.3	38.0	36.5
	2023	706	59.0	39.8	57.4	1.2	1.6	60.0	58.0
England	2019	490	21.0	77.7	20.7	1.0	0.6	18.8	22.9
	2023	569	82.9	17.1	82.5	0.2	0.2	85.6	80.3
Finland	2019	673	50.3	48.9	49.4	1.4	0.4	49.7	50.8
	2023	811	49.9	49.7	49.5	0.8	0.0	56.1	43.9
France	2019	596	55.4	42.8	53.2	2.1	1.9	60.6	50.6
	2023	652	37.4	60.3	36.0	1.1	2.5	41.6	33.6
Germany	2019	493	68.7	30.3	66.4	1.6	1.7	69.5	67.9
	2023	622	74.9	24.3	72.5	1.1	2.1	78.2	71.4
Hong Kong SAR	2019	414	21.4	78.0	21.2	0.6	0.2	24.4	19.2
	2023	585	66.9	33.0	66.9	0.1	0.0	73.3	60.6
Hungary	2019	653	48.4	50.6	47.5	0.9	1.1	48.2	48.7
	2023	729	64.8	34.5	63.6	0.4	1.4	64.9	64.8
Italy	2019	530	33.4	63.9	32.1	3.1	1.0	37.2	30.0
	2023	625	60.2	38.5	58.4	0.9	2.2	60.9	59.6
Korea, Rep. of	2019	556	86.7	13.3	86.6	0.1	0.0	88.3	85.2
	2023	384	67.9	31.8	67.4	0.7	0.0	68.9	67.0
Lithuania	2019	539	67.3	32.3	66.7	1.0	0.0	73.7	61.9
	2023	638	69.8	30.1	69.7	0.2	0.0	72.6	67.1
Netherlands	2019	473	60.2	39.2	59.3	1.6	0.0	59.3	61.1
	2023	494	67.0	32.9	66.8	0.1	0.1	71.8	61.3
Norway (5)	2019	554	10.8	86.2	10.4	2.7	0.7	10.8	10.9
	2023	744	61.1	38.2	59.9	1.3	0.6	64.6	57.5
Qatar	2019	704	25.6	71.0	24.4	0.9	3.7	30.9	20.0
	2023	898	47.7	50.7	46.2	0.3	2.8	48.2	47.2
Singapore	2019	849	78.0	22.0	77.9	0.1	0.1	77.9	78.1
	2023	591	79.6	20.4	79.6	0.0	0.0	75.5	83.6
Spain	2019	1367	56.8	42.2	55.6	1.1	1.1	60.4	53.6
	2023	1444	74.7	24.6	72.7	1.0	1.8	76.4	73.0
Sweden	2019	568	52.3	46.2	50.6	3.0	0.2	59.3	45.3
	2023	719	34.0	64.5	33.3	1.3	0.9	40.3	27.3
United Arab Emirates	2019	3674	35.4	63.1	34.6	1.1	1.2	38.0	33.0
	2023	5628	28.5	69.1	27.5	0.5	2.9	31.5	25.7
United States	2019	1274	60.4	38.9	59.3	1.1	0.7	61.6	59.3
	2023	1291	50.2	48.8	49.2	0.8	1.1	49.2	51.1
International Avg. (21)	2019	16677	49.2	49.5	48.3	1.3	0.9	51.0	47.6

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

Science: Physical Science / Applying
A_SE2_09 SE71131: Circuit where the bulb is lit - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
International Avg. (21)	2023	20185	59.8	39.2	58.9	0.8	1.1	62.4	57.4
Abu Dhabi, UAE	2019 2023	1279 2510	24.3 23.5	73.9 73.1	23.7 22.4	1.1 0.4	1.3 4.0	28.3 26.5	20.4 20.4
Dubai, UAE	2019 2023	1048 1311	42.7 33.8	56.5 65.7	42.0 33.5	1.2 0.2	0.3 0.7	45.3 37.9	40.1 30.2

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

Science: Physical Science / Knowing

A_SE2_10 SE71152: Force between rug and sofa - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	67.4	7.7	65.4	8.3	15.6	1.8	1.3	65.6	69.5
	2023	1936	69.7	7.3	68.6	9.0	13.5	0.5	1.1	66.0	73.2
Chile	2019	603	30.0	9.0	28.5	33.3	24.1	2.8	2.4	29.8	30.2
	2023	643	33.6	10.3	31.9	32.8	19.8	2.4	2.9	32.0	35.0
Chinese Taipei	2019	530	87.9	2.2	87.2	1.2	8.6	0.4	0.4	87.3	88.4
	2023	453	85.0	5.7	85.0	0.4	8.8	0.0	0.0	83.6	86.1
Czech Republic	2019	674	74.8	6.3	73.9	6.9	11.7	1.3	0.0	73.3	76.3
	2023	959	73.3	7.8	71.4	7.0	11.2	1.5	1.1	67.6	78.3
Denmark	2019	463	32.2	17.4	31.3	14.8	33.5	1.6	1.3	28.7	35.6
	2023	706	39.4	15.9	38.3	8.5	34.5	0.9	1.9	35.1	44.4
England	2019	490	75.8	8.1	73.8	5.6	9.9	1.8	0.8	75.7	75.8
	2023	569	79.5	7.9	78.9	5.3	7.2	0.4	0.2	78.5	81.0
Finland	2019	673	50.5	8.7	49.3	3.6	36.0	1.8	0.6	39.7	61.5
	2023	811	45.2	15.4	44.8	3.1	35.7	0.9	0.1	39.2	51.1
France	2019	596	64.3	9.2	61.4	9.8	15.1	2.4	2.1	60.3	68.0
	2023	652	68.2	7.2	64.7	9.1	13.8	2.1	3.0	68.2	68.2
Georgia	2019	537	65.4	5.5	61.8	10.3	16.9	4.1	1.3	62.7	68.0
	2023	608	58.4	6.3	51.2	14.5	15.7	4.9	7.4	54.8	62.0
Germany	2019	493	59.3	8.1	57.6	6.7	24.8	0.9	1.9	59.0	59.6
	2023	622	62.7	9.2	60.1	3.5	23.1	1.4	2.8	65.0	60.3
Hong Kong SAR	2019	414	81.4	6.4	80.4	1.9	10.0	0.6	0.6	79.2	83.1
	2023	585	74.1	9.7	73.4	4.8	11.1	1.0	0.0	72.8	75.3
Hungary	2019	653	78.6	4.6	77.3	4.8	11.6	0.7	1.1	76.7	80.4
	2023	729	76.9	6.4	75.0	4.8	11.3	1.0	1.6	77.9	75.8
Italy	2019	530	49.7	11.8	47.2	13.6	22.3	4.1	1.0	44.7	54.2
	2023	625	49.2	11.8	46.1	13.1	22.7	3.6	2.7	43.8	54.4
Korea, Rep. of	2019	556	69.2	5.4	68.6	10.1	15.1	0.8	0.0	64.8	73.6
	2023	384	64.8	9.9	64.7	14.5	10.8	0.2	0.0	62.0	67.4
Lithuania	2019	539	72.4	5.1	71.8	6.5	15.8	0.8	0.0	71.0	73.6
	2023	638	72.7	4.5	72.6	7.4	15.5	0.1	0.0	74.5	70.8
Netherlands	2019	473	58.8	6.7	58.0	7.9	26.0	1.0	0.3	58.2	59.4
	2023	494	55.8	4.4	55.6	7.0	32.7	0.2	0.1	56.7	54.2
Norway (5)	2019	554	47.4	9.6	46.1	6.6	34.9	1.9	0.9	40.8	53.7
	2023	744	43.6	10.9	42.8	3.7	40.7	0.7	1.2	37.6	49.7
Portugal	2019	621	30.7	19.3	30.1	21.1	27.4	1.1	1.0	29.6	31.8
	2023	735	32.3	16.1	31.2	21.5	27.7	1.6	1.9	30.2	34.6
Qatar	2019	704	52.6	9.7	49.7	12.3	22.8	1.6	3.9	50.4	54.8
	2023	898	56.5	10.0	54.2	10.7	21.1	1.2	2.9	54.7	58.4
Singapore	2019	849	72.0	10.8	71.6	2.3	14.8	0.4	0.2	66.7	77.1
	2023	591	76.3	11.3	76.3	1.9	10.5	0.0	0.0	72.8	79.7
Slovak Republic	2019	610	61.9	6.8	60.8	8.7	21.9	1.6	0.1	60.6	63.1
	2023	667	57.5	7.9	56.9	8.7	25.4	0.7	0.3	58.8	56.2
Spain	2019	1367	36.1	8.4	34.9	25.6	27.8	2.2	1.1	29.5	42.1
	2023	1445	36.2	10.4	34.7	25.2	25.5	2.2	2.0	30.7	41.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Knowing

A_SE2_10 SE71152: Force between rug and sofa - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	46.9	18.3	45.6	8.5	24.9	2.0	0.8	40.2	53.6
	2023	719	48.0	16.0	46.7	5.2	29.4	1.6	1.1	43.9	52.3
United Arab Emirates	2019	3674	62.0	8.3	60.2	9.9	18.7	1.5	1.3	61.1	62.8
	2023	5629	69.0	7.9	65.9	8.5	13.3	1.3	3.1	66.2	71.6
United States	2019	1274	61.8	7.5	60.1	13.2	16.5	2.0	0.7	60.6	62.9
	2023	1291	63.0	9.2	61.6	11.6	15.4	0.8	1.6	57.6	68.1

International Avg. (25)	2019	20368	59.6	8.8	58.1	10.1	20.3	1.6	1.0	56.6	62.4
	2023	24133	59.6	9.6	58.1	9.7	19.9	1.2	1.6	57.2	62.0

Abu Dhabi, UAE	2019	1278	48.8	13.3	47.3	12.3	24.0	1.7	1.4	46.4	50.7
	2023	2510	58.9	10.9	55.6	11.4	16.4	1.5	4.3	55.0	62.8
Dubai, UAE	2019	1048	76.3	4.0	75.1	6.7	12.5	1.2	0.4	76.9	75.8
	2023	1311	81.5	4.6	80.5	5.0	8.7	0.4	0.8	80.1	82.6
Ontario, Canada	2019	541	71.2	7.6	68.7	6.4	13.8	1.7	1.8	69.2	73.2
	2023	596	71.7	9.4	70.5	7.0	11.4	0.3	1.3	66.0	78.0
Quebec, Canada	2019	540	67.6	5.8	66.2	12.0	13.9	1.5	0.6	65.5	69.9
	2023	545	66.5	3.8	65.6	12.1	17.2	0.6	0.7	64.9	68.0

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

Science: Earth Science / Knowing

A_SE2_11 SE71218: How sand dunes move - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	87.0	84.3	2.7	2.6	7.3	1.0	2.0	86.1	88.0
	2023	1936	83.3	82.1	2.6	3.6	10.3	0.0	1.5	82.0	84.7
Chile	2019	603	75.7	71.5	4.5	3.9	14.5	1.7	3.9	75.6	75.8
	2023	643	67.6	64.5	7.6	5.4	17.8	0.6	4.0	64.9	69.9
Chinese Taipei	2019	530	89.8	89.2	1.7	1.8	6.6	0.3	0.4	90.1	89.6
	2023	453	92.7	92.7	2.8	1.6	2.9	0.0	0.0	93.2	92.3
Czech Republic	2019	674	92.5	91.3	2.5	1.2	3.7	1.0	0.4	95.3	90.0
	2023	959	91.0	89.2	2.3	2.1	4.4	0.2	1.8	88.1	93.6
Denmark	2019	463	83.9	82.4	3.1	3.8	8.9	0.1	1.7	82.6	85.1
	2023	706	85.9	83.0	3.2	5.0	5.5	0.9	2.4	84.7	87.3
England	2019	490	84.8	81.7	2.3	5.7	6.6	2.1	1.6	82.2	87.0
	2023	569	84.5	84.2	2.9	4.8	7.8	0.1	0.2	80.8	88.5
Finland	2019	673	92.3	90.8	1.7	0.6	5.2	0.9	0.7	92.6	92.1
	2023	811	90.4	90.0	2.2	1.2	6.1	0.4	0.1	90.7	90.2
France	2019	596	81.8	78.8	2.1	2.8	12.6	0.5	3.2	81.1	82.4
	2023	652	82.1	77.5	2.9	3.5	10.5	0.9	4.7	81.1	83.0
Georgia	2019	536	67.9	64.0	4.6	9.1	16.6	2.9	2.9	69.3	66.6
	2023	608	75.3	66.3	4.8	5.1	11.7	1.1	10.8	71.3	79.2
Germany	2019	493	87.9	85.4	2.9	2.4	6.5	0.8	2.1	86.1	89.6
	2023	622	85.5	82.2	2.0	5.4	6.4	0.6	3.2	84.8	86.4
Hong Kong SAR	2019	414	82.0	80.6	5.4	3.7	8.6	0.8	0.8	78.7	84.4
	2023	585	78.3	77.7	3.9	7.3	10.4	0.2	0.6	76.9	79.6
Hungary	2019	653	83.3	82.1	4.3	6.1	6.1	0.1	1.4	79.3	87.0
	2023	729	80.6	78.9	6.9	5.5	6.5	0.4	1.8	78.0	83.5
Italy	2019	530	83.0	81.0	2.9	3.6	10.2	0.6	1.7	80.2	85.6
	2023	625	76.7	72.9	4.9	6.7	10.5	0.7	4.2	74.4	79.0
Korea, Rep. of	2019	556	93.8	93.0	2.8	0.5	2.8	0.8	0.0	93.4	94.2
	2023	384	88.5	88.3	4.1	3.8	3.6	0.3	0.0	85.0	91.9
Lithuania	2019	539	92.3	91.6	2.2	2.1	3.3	0.7	0.0	91.7	92.8
	2023	638	90.8	90.7	1.5	3.6	4.1	0.1	0.0	87.3	94.3
Netherlands	2019	473	86.1	84.8	4.8	1.7	7.2	1.1	0.3	86.3	85.9
	2023	494	88.2	88.1	2.7	4.8	4.3	0.0	0.1	87.7	88.6
Norway (5)	2019	554	94.0	92.2	2.3	1.6	2.0	0.9	1.0	94.6	93.5
	2023	744	91.5	90.0	1.7	2.3	4.4	0.2	1.4	90.1	92.8
Portugal	2019	621	85.6	83.0	3.8	3.1	7.0	2.0	1.1	85.8	85.5
	2023	735	87.0	84.1	3.3	3.2	6.0	0.5	2.9	85.7	88.4
Qatar	2019	704	79.6	75.4	6.3	6.0	7.0	0.9	4.3	82.6	76.4
	2023	898	80.7	77.3	5.6	8.1	4.9	0.2	4.0	79.1	82.3
Singapore	2019	849	86.7	86.0	2.6	4.3	6.3	0.4	0.4	82.4	90.9
	2023	591	85.4	85.4	3.0	5.5	6.1	0.0	0.0	83.1	87.6
Slovak Republic	2019	610	82.3	81.5	6.4	3.1	8.1	0.4	0.6	79.7	84.4
	2023	667	80.6	80.0	4.3	5.9	9.1	0.1	0.7	75.8	85.5
Spain	2019	1367	84.0	81.1	2.5	2.5	10.5	2.2	1.3	84.1	83.9
	2023	1445	79.4	76.8	2.9	4.3	12.7	0.4	2.9	78.7	80.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SE2_11 SE71218: How sand dunes move - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	88.4	86.6	3.5	2.3	5.5	1.0	1.0	89.6	87.2
	2023	719	88.0	86.6	3.2	3.0	5.7	0.1	1.4	89.9	85.9
United Arab Emirates	2019	3675	81.3	78.8	6.2	6.7	5.2	1.0	2.1	83.7	78.8
	2023	5629	80.7	76.7	5.5	7.8	5.1	0.6	4.3	80.2	81.1
United States	2019	1274	88.1	85.4	3.4	3.8	4.5	1.6	1.4	87.8	88.3
	2023	1291	83.1	80.6	4.3	6.6	5.5	0.6	2.3	82.5	83.6

International Avg. (25)	2019	20368	85.4	83.3	3.5	3.4	7.3	1.0	1.5	84.8	85.8
	2023	24133	83.9	81.8	3.7	4.6	7.3	0.4	2.2	82.2	85.6

Abu Dhabi, UAE	2019	1277	69.6	67.7	10.3	11.6	7.7	0.7	2.1	74.4	64.5
	2023	2510	74.5	69.9	7.2	10.7	5.9	0.7	5.5	74.8	74.2
Dubai, UAE	2019	1048	91.1	89.5	2.5	3.1	3.1	0.9	1.0	92.8	89.4
	2023	1311	90.0	88.8	2.9	3.7	3.3	0.1	1.2	88.8	91.0
Ontario, Canada	2019	541	87.5	84.7	1.7	3.0	7.4	0.4	2.8	86.4	88.7
	2023	596	85.9	84.4	2.5	2.6	8.8	0.0	1.6	85.1	86.7
Quebec, Canada	2019	540	84.3	82.8	4.0	1.8	9.7	0.6	1.1	83.1	85.5
	2023	545	74.4	73.6	3.6	5.1	16.6	0.0	1.1	71.8	76.7

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

Science: Earth Science / Applying

A_SE2_12 SE71214: Best way to replenish a forest - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	68.3	11.4	8.5	10.7	65.9	1.4	2.1	68.0	68.6
	2023	1936	71.7	9.4	9.3	9.1	70.4	0.3	1.5	68.4	74.8
Chile	2019	603	47.1	21.6	14.3	13.5	43.9	2.1	4.8	47.2	47.0
	2023	643	51.9	18.1	12.5	14.8	48.8	1.4	4.5	49.4	53.9
Chinese Taipei	2019	530	59.8	10.9	15.7	13.0	58.9	1.0	0.4	60.1	59.5
	2023	453	60.8	9.3	13.7	16.1	60.8	0.0	0.0	58.4	62.6
Czech Republic	2019	674	58.5	9.6	14.2	16.9	57.3	1.2	1.0	63.7	53.7
	2023	959	57.9	12.6	10.7	17.7	56.3	0.8	1.9	54.2	61.1
Denmark	2019	463	76.2	8.6	5.7	8.6	73.4	2.0	1.7	75.6	76.7
	2023	706	74.6	13.4	5.6	5.4	71.7	1.0	2.8	72.3	77.3
England	2019	490	62.8	9.7	13.8	12.6	60.8	1.3	1.7	60.1	65.1
	2023	569	71.2	8.5	12.2	8.1	71.0	0.0	0.2	67.7	75.2
Finland	2019	673	73.1	6.8	6.6	12.7	71.1	2.0	0.9	72.6	73.7
	2023	811	72.9	9.0	6.9	11.0	72.4	0.5	0.2	75.3	70.7
France	2019	596	61.2	10.7	9.1	16.0	56.5	4.2	3.5	59.0	63.2
	2023	652	66.6	9.8	7.8	13.5	61.9	1.7	5.4	62.6	70.1
Georgia	2019	536	58.9	14.4	11.0	12.7	54.6	4.1	3.3	51.8	65.9
	2023	608	61.3	16.6	7.6	9.3	53.0	2.1	11.3	59.5	63.0
Germany	2019	493	62.9	11.6	11.1	13.0	60.5	1.2	2.6	60.9	64.7
	2023	622	61.2	15.1	9.6	12.3	58.3	1.0	3.7	57.4	65.3
Hong Kong SAR	2019	414	64.4	10.8	13.4	10.9	63.6	0.4	0.8	60.8	67.2
	2023	585	61.9	14.1	14.4	9.3	61.4	0.3	0.6	57.6	66.1
Hungary	2019	653	68.0	10.4	8.6	12.2	66.4	1.0	1.4	63.7	71.9
	2023	729	69.7	10.1	6.9	12.5	67.9	0.5	2.2	67.4	72.2
Italy	2019	530	54.1	14.7	15.5	13.5	51.6	2.9	1.7	53.2	55.0
	2023	625	65.6	13.6	8.6	10.1	61.7	1.0	4.9	63.9	67.2
Korea, Rep. of	2019	556	68.2	14.5	5.8	11.4	67.9	0.5	0.0	64.0	72.5
	2023	384	65.9	19.5	9.1	5.5	65.9	0.0	0.0	56.7	74.9
Lithuania	2019	539	68.2	9.5	8.3	13.6	67.3	1.2	0.2	70.2	66.5
	2023	638	73.1	6.5	8.0	12.2	72.6	0.8	0.0	70.0	76.1
Netherlands	2019	473	61.0	13.5	12.8	11.6	59.2	2.6	0.3	61.0	60.9
	2023	494	63.0	9.3	12.3	15.0	62.4	0.9	0.1	59.6	66.8
Norway (5)	2019	554	69.7	12.7	6.4	10.6	68.5	0.5	1.2	65.6	73.8
	2023	744	68.2	17.1	4.3	9.7	66.7	0.7	1.5	67.5	68.9
Portugal	2019	621	56.3	11.8	11.8	18.5	54.3	1.7	1.8	54.6	58.0
	2023	735	58.9	13.8	8.0	17.7	56.5	0.8	3.2	52.1	65.7
Qatar	2019	704	43.7	19.1	12.2	21.1	40.8	2.0	4.7	42.6	45.0
	2023	898	48.7	19.9	13.1	15.7	46.2	1.1	4.0	43.2	54.5
Singapore	2019	849	71.1	5.6	13.4	9.4	70.2	0.9	0.4	67.6	74.5
	2023	591	75.2	7.2	10.8	6.8	75.2	0.0	0.0	72.8	77.6
Slovak Republic	2019	610	70.0	11.5	8.4	9.1	67.9	2.4	0.7	74.5	66.2
	2023	667	74.7	9.0	7.5	8.5	74.2	0.0	0.8	73.9	75.6
Spain	2019	1367	59.2	11.9	12.1	15.8	57.7	0.9	1.5	56.3	61.8
	2023	1445	55.7	14.1	10.8	17.5	53.2	1.2	3.2	48.9	62.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Applying

A_SE2_12 SE71214: Best way to replenish a forest - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	71.4	10.3	7.9	9.6	69.4	1.3	1.5	72.1	70.7
	2023	719	69.1	13.7	11.7	4.9	67.8	0.5	1.4	64.9	73.5
United Arab Emirates	2019	3668	45.7	19.4	14.5	18.2	43.9	1.7	2.3	45.8	45.6
	2023	5628	53.0	15.7	14.5	14.3	50.2	0.6	4.7	51.5	54.4
United States	2019	1274	66.3	11.4	11.5	9.9	64.6	1.1	1.5	64.9	67.7
	2023	1291	65.3	12.2	11.7	9.7	63.2	0.4	2.8	64.9	65.6

International Avg. (25)	2019	20361	62.7	12.1	10.9	13.0	60.6	1.7	1.7	61.4	63.8
	2023	24132	64.7	12.7	9.9	11.5	62.8	0.7	2.4	61.6	67.8

Abu Dhabi, UAE	2019	1275	38.3	21.4	18.8	19.3	36.9	1.5	2.1	40.1	36.0
	2023	2510	47.3	17.9	16.9	14.3	44.1	0.8	6.0	47.2	47.4
Dubai, UAE	2019	1048	56.6	16.0	12.0	14.3	55.0	1.5	1.2	55.6	57.5
	2023	1311	66.3	10.3	11.7	11.3	65.3	0.2	1.3	65.4	67.0
Ontario, Canada	2019	541	66.3	12.7	6.9	12.8	63.8	0.9	2.8	66.2	66.5
	2023	596	74.7	7.9	8.3	8.6	73.3	0.2	1.6	69.3	80.4
Quebec, Canada	2019	540	72.5	6.6	11.9	8.3	70.7	1.5	1.1	70.0	75.3
	2023	545	66.4	9.4	12.4	11.3	65.3	0.5	1.1	63.0	69.6

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

Science: Earth Science / Knowing

A_SE2_13 SE71213: Benefit of using sunlight or wind to produce electricity - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1923	28.3	65.6	25.9	6.0	2.5	25.2	31.5
	2023	1935	26.4	68.9	24.7	4.6	1.7	23.9	28.5
Chile	2019	603	13.7	69.4	11.0	13.3	6.2	11.3	16.4
	2023	643	5.3	77.8	4.4	12.8	5.0	4.3	6.1
Chinese Taipei	2019	530	59.6	39.3	58.0	2.3	0.4	60.6	58.7
	2023	453	34.1	63.9	33.0	3.2	0.0	32.1	35.5
Czech Republic	2019	674	13.8	73.3	11.7	13.5	1.5	10.9	16.3
	2023	959	10.0	76.0	8.4	13.4	2.2	7.1	12.4
Denmark	2019	463	34.5	59.8	31.5	6.5	2.2	27.0	41.8
	2023	706	36.7	58.7	34.1	4.1	3.1	33.9	40.1
England	2019	490	9.9	78.8	8.6	10.5	2.1	10.4	9.4
	2023	569	17.7	76.7	16.5	6.6	0.2	14.8	20.8
Finland	2019	673	39.8	54.5	36.1	7.6	1.8	36.5	43.2
	2023	811	32.1	62.1	29.4	7.9	0.6	29.6	34.7
France	2019	596	29.3	54.2	22.4	16.6	6.8	27.9	30.5
	2023	652	31.3	54.1	24.7	15.5	5.7	26.7	35.0
Georgia	2019	536	12.9	58.6	8.7	27.7	5.0	14.4	11.6
	2023	608	7.0	63.0	4.8	18.8	13.4	6.5	7.5
Germany	2019	493	42.1	47.7	34.7	14.1	3.5	43.8	40.7
	2023	622	23.2	63.7	19.3	12.5	4.5	16.1	30.6
Hong Kong SAR	2019	414	24.9	70.7	23.5	4.6	1.2	19.9	28.7
	2023	585	27.2	66.9	24.9	7.4	0.8	19.1	35.1
Hungary	2019	653	24.2	69.0	22.1	7.2	1.7	22.6	25.7
	2023	729	41.0	55.1	38.3	4.3	2.4	40.6	41.4
Italy	2019	530	46.2	48.1	41.4	8.2	2.3	37.9	53.9
	2023	625	36.3	52.2	29.8	12.5	5.5	31.0	41.2
Korea, Rep. of	2019	556	47.0	52.1	46.3	1.6	0.0	42.1	51.4
	2023	384	29.9	68.0	29.0	2.9	0.0	29.4	30.4
Lithuania	2019	539	38.8	53.1	33.7	12.6	0.6	38.4	39.1
	2023	638	32.2	65.1	31.0	3.8	0.2	30.6	33.7
Netherlands	2019	473	26.0	67.6	23.7	7.3	1.3	23.4	28.1
	2023	494	17.4	79.5	16.7	3.5	0.2	14.1	21.2
Norway (5)	2019	554	33.2	62.0	30.8	5.8	1.4	29.7	36.5
	2023	744	21.9	73.6	20.6	4.1	1.7	18.8	24.8
Portugal	2019	621	39.2	53.7	34.7	9.1	2.6	42.4	36.1
	2023	735	36.7	56.3	32.7	7.2	3.8	33.1	40.2
Qatar	2019	704	13.8	71.9	11.5	11.2	5.4	14.8	12.8
	2023	895	18.6	72.3	16.5	6.3	4.9	17.4	19.8
Singapore	2019	849	23.1	74.1	22.3	3.1	0.5	16.8	29.2
	2023	590	25.7	72.8	25.2	2.0	0.0	21.4	29.9
Slovak Republic	2019	610	7.6	77.3	6.4	14.8	1.6	6.1	8.8
	2023	667	6.6	84.0	5.9	9.2	0.8	5.7	7.5
Spain	2019	1367	29.4	61.6	25.7	10.9	1.8	27.1	31.4
	2023	1444	32.8	56.9	27.8	11.6	3.7	33.3	32.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SE2_13 SE71213: Benefit of using sunlight or wind to produce electricity - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	568	14.8	74.3	12.9	10.7	2.2	15.2	14.5
	2023	719	24.6	69.1	22.6	6.8	1.6	24.5	24.7
United Arab Emirates	2019	3680	18.7	72.9	16.8	7.6	2.7	17.5	20.0
	2023	5628	26.9	66.2	24.4	4.3	5.2	26.1	27.6
United States	2019	1274	24.5	71.9	23.3	2.9	2.0	22.8	26.0
	2023	1291	23.0	72.7	21.7	2.4	3.2	21.8	24.0

International Avg. (25)	2019	20373	27.8	63.3	24.9	9.4	2.4	25.8	29.7
	2023	24126	25.0	67.0	22.6	7.5	2.8	22.5	27.4

Abu Dhabi, UAE	2019	1281	9.2	81.4	8.3	7.8	2.5	10.2	8.1
	2023	2510	17.9	73.1	15.9	4.4	6.5	18.5	17.3
Dubai, UAE	2019	1048	24.5	71.3	23.2	4.1	1.3	22.2	26.8
	2023	1311	39.9	57.7	38.4	2.4	1.5	38.5	41.2
Ontario, Canada	2019	541	22.9	70.1	20.9	5.9	3.1	20.8	24.8
	2023	596	21.1	73.1	19.6	5.5	1.8	19.2	22.1
Quebec, Canada	2019	540	39.0	57.4	36.7	4.4	1.5	32.5	46.2
	2023	544	37.2	58.7	34.8	4.9	1.6	33.0	41.2

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

Science: Life Science / Knowing

A_SE4_01 SE71013: Function of hedgehog spines and snail shell - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	80.9	5.1	79.9	4.8	9.0	1.0	0.2	77.5	83.8
	2023	1887	80.5	4.4	80.1	6.6	8.5	0.4	0.0	78.1	82.7
Chile	2019	587	81.8	4.9	80.5	4.7	8.2	1.1	0.4	79.2	84.3
	2023	649	81.4	7.3	80.9	4.4	6.9	0.5	0.0	79.2	83.4
Chinese Taipei	2019	544	81.3	2.8	81.3	8.5	7.3	0.0	0.0	78.1	84.2
	2023	446	82.7	3.3	82.6	6.2	7.8	0.1	0.0	82.2	83.3
Czech Republic	2019	672	85.9	5.6	85.4	4.1	4.3	0.7	0.0	84.0	87.6
	2023	947	78.8	6.9	78.7	7.4	6.9	0.1	0.0	76.2	81.4
Denmark	2019	451	89.8	3.0	88.2	3.9	3.2	1.3	0.5	89.9	89.7
	2023	708	84.4	4.0	84.0	6.7	4.8	0.5	0.0	81.3	87.7
England	2019	490	79.6	4.9	78.8	7.6	7.8	1.0	0.0	82.0	77.1
	2023	570	75.8	6.6	75.6	8.6	9.0	0.2	0.0	76.4	74.9
Finland	2019	665	92.2	3.2	91.5	2.6	1.9	0.8	0.0	92.2	92.3
	2023	771	88.8	3.3	88.8	6.0	1.9	0.0	0.0	89.9	87.6
France	2019	596	85.3	5.5	84.4	4.0	5.0	1.1	0.0	83.0	87.5
	2023	663	84.3	5.0	83.2	3.6	7.0	1.3	0.0	82.6	86.0
Georgia	2019	541	65.3	8.6	64.5	6.1	19.5	1.2	0.0	62.0	68.4
	2023	617	71.0	10.6	70.4	6.0	12.3	0.8	0.0	68.5	73.9
Germany	2019	490	83.4	4.4	83.4	4.2	7.9	0.0	0.0	80.9	86.1
	2023	626	79.2	8.6	79.1	4.8	7.3	0.1	0.0	76.3	82.2
Hong Kong SAR	2019	408	83.2	3.2	83.2	6.2	7.4	0.0	0.0	80.4	85.5
	2023	569	75.8	3.2	75.8	9.2	11.8	0.0	0.0	77.0	74.4
Hungary	2019	654	86.1	3.5	85.7	6.1	4.1	0.5	0.0	84.8	87.4
	2023	739	79.8	5.8	79.8	8.5	5.9	0.0	0.0	77.4	82.3
Italy	2019	536	86.8	4.0	85.7	2.9	6.2	1.2	0.0	83.2	91.1
	2023	620	84.4	4.1	84.2	4.3	7.1	0.2	0.0	81.3	87.2
Korea, Rep. of	2019	555	91.0	1.4	91.0	4.1	3.5	0.0	0.0	87.7	93.6
	2023	363	96.5	0.0	96.4	2.0	1.4	0.0	0.1	94.1	99.6
Lithuania	2019	535	83.9	9.4	83.6	4.8	2.0	0.3	0.0	82.9	85.0
	2023	627	84.9	7.1	84.6	5.1	2.8	0.2	0.2	83.3	86.3
Netherlands	2019	478	85.7	4.1	85.3	6.7	3.5	0.3	0.1	83.6	87.9
	2023	502	86.9	4.7	86.8	5.6	2.7	0.0	0.2	82.7	90.5
Norway (5)	2019	566	86.4	5.0	85.6	7.0	1.5	0.9	0.0	85.3	87.5
	2023	728	84.4	5.3	84.0	8.5	1.7	0.4	0.0	81.0	87.6
Portugal	2019	611	86.8	3.3	85.5	4.2	5.5	1.5	0.0	84.9	88.8
	2023	730	83.6	5.8	83.6	5.6	5.1	0.0	0.0	82.9	84.1
Qatar	2019	701	66.7	12.8	65.1	7.8	11.9	1.6	0.8	65.5	67.9
	2023	888	72.0	9.3	71.6	7.0	11.5	0.5	0.1	68.2	75.3
Singapore	2019	850	91.7	1.1	91.5	4.1	3.2	0.2	0.0	91.5	91.8
	2023	599	91.6	1.4	91.6	3.4	3.6	0.0	0.0	92.6	90.7
Slovak Republic	2019	600	81.9	7.7	81.4	3.2	7.1	0.6	0.0	78.5	85.1
	2023	663	77.8	9.6	77.6	5.6	6.9	0.3	0.0	76.1	79.5
Spain	2019	1350	84.9	4.5	84.6	4.7	5.9	0.3	0.0	81.0	88.9
	2023	1410	89.5	2.5	89.4	3.8	4.3	0.1	0.0	86.3	92.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Knowing

A_SE4_01 SE71013: Function of hedgehog spines and snail shell - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	85.2	2.1	84.0	7.8	4.6	1.3	0.1	83.3	87.4
	2023	696	82.4	4.5	81.9	7.4	5.7	0.5	0.0	80.4	84.5
United Arab Emirates	2019	3669	69.6	11.5	69.0	9.2	9.5	0.7	0.1	68.8	70.4
	2023	5593	72.9	9.6	72.7	9.3	8.1	0.2	0.0	71.7	74.1
United States	2019	1268	81.8	3.4	81.1	7.2	7.4	0.8	0.0	78.3	85.2
	2023	1304	74.6	5.6	74.3	10.4	9.3	0.3	0.1	70.7	78.6

International Avg. (25)	2019	20333	83.1	5.0	82.4	5.5	6.3	0.7	0.1	81.1	85.0
	2023	23915	81.8	5.5	81.5	6.2	6.4	0.3	0.0	79.9	83.6

Abu Dhabi, UAE	2019	1282	55.6	17.1	55.0	13.8	13.0	0.7	0.2	53.2	57.7
	2023	2481	63.2	14.2	63.0	12.0	10.6	0.3	0.0	61.6	64.6
Dubai, UAE	2019	1026	84.0	5.0	83.7	4.4	6.5	0.3	0.0	83.6	84.3
	2023	1290	85.5	3.4	85.4	5.2	5.9	0.0	0.1	84.4	86.6
Ontario, Canada	2019	546	77.1	4.9	76.6	6.9	10.9	0.7	0.0	75.5	78.6
	2023	597	77.4	3.7	77.2	9.2	9.6	0.3	0.0	75.7	79.3
Quebec, Canada	2019	558	90.4	3.8	89.6	1.4	4.3	0.8	0.1	88.6	91.7
	2023	532	87.1	3.3	87.0	3.7	5.9	0.1	0.0	86.8	87.2

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

Science: Life Science / Knowing
A_SE4_02 SE71902: Identify the animals with backbones (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	16.6	81.9	16.3	1.6	0.2	17.2	16.1
	2023	1887	21.6	77.8	21.5	0.7	0.0	21.5	21.7
Chile	2019	587	24.7	73.1	23.9	2.5	0.4	22.9	26.3
	2023	649	23.6	75.1	23.3	1.7	0.0	22.0	25.2
Chinese Taipei	2019	544	20.5	79.2	20.4	0.4	0.0	18.4	22.3
	2023	446	19.8	79.8	19.7	0.5	0.0	18.3	21.5
Czech Republic	2019	672	40.9	58.8	40.7	0.5	0.0	40.1	41.6
	2023	947	40.6	58.8	40.3	0.9	0.0	40.9	40.4
Denmark	2019	451	22.8	75.1	22.2	2.1	0.5	20.7	25.3
	2023	708	21.2	78.3	21.1	0.6	0.0	19.8	22.7
England	2019	490	23.3	76.4	23.2	0.4	0.0	23.0	23.6
	2023	570	15.5	84.4	15.5	0.1	0.0	14.3	16.2
Finland	2019	665	26.7	72.4	26.4	1.2	0.0	28.6	25.1
	2023	771	34.4	65.3	34.3	0.4	0.0	37.4	31.3
France	2019	596	26.6	72.9	26.4	0.8	0.0	27.4	25.8
	2023	663	25.0	73.5	24.4	1.9	0.1	23.1	26.9
Georgia	2019	541	23.0	74.0	22.1	3.9	0.0	20.1	25.7
	2023	617	35.0	62.9	33.9	3.2	0.0	33.2	37.3
Germany	2019	490	26.2	72.8	25.8	1.4	0.0	26.6	25.7
	2023	626	22.6	76.7	22.4	0.9	0.0	21.5	23.7
Hong Kong SAR	2019	408	20.8	78.7	20.6	0.7	0.0	21.0	20.6
	2023	569	32.3	67.6	32.2	0.2	0.0	29.2	35.6
Hungary	2019	654	37.4	62.1	37.1	0.8	0.0	39.4	35.6
	2023	739	36.9	63.0	36.9	0.1	0.0	28.5	45.5
Italy	2019	536	37.5	60.9	36.5	2.6	0.0	34.6	41.1
	2023	620	44.1	55.0	43.4	1.7	0.0	42.9	45.1
Korea, Rep. of	2019	555	26.8	73.2	26.8	0.0	0.0	23.7	29.3
	2023	363	22.3	77.6	22.3	0.0	0.1	20.1	25.1
Lithuania	2019	535	32.5	67.2	32.3	0.5	0.0	35.1	29.4
	2023	627	30.2	69.6	30.2	0.0	0.2	30.1	30.3
Netherlands	2019	478	12.1	85.7	11.8	2.4	0.1	13.5	10.7
	2023	502	15.2	81.9	14.7	3.2	0.2	14.3	16.4
Norway (5)	2019	566	25.1	74.6	25.0	0.4	0.0	26.7	23.4
	2023	728	27.1	71.9	26.8	1.3	0.0	28.5	25.9
Portugal	2019	611	23.1	76.4	22.9	0.7	0.0	20.4	26.0
	2023	730	13.6	85.8	13.5	0.7	0.0	12.1	14.9
Qatar	2019	701	25.0	72.7	24.2	2.3	0.8	25.5	24.5
	2023	888	27.9	71.2	27.6	1.1	0.1	28.8	27.1
Singapore	2019	850	16.8	83.2	16.8	0.0	0.0	13.7	19.7
	2023	599	17.2	82.8	17.2	0.0	0.0	13.7	20.6
Slovak Republic	2019	600	34.2	65.4	34.0	0.6	0.0	31.2	37.0
	2023	663	28.7	71.0	28.5	0.5	0.0	29.4	27.9
Spain	2019	1350	41.0	58.9	41.0	0.1	0.0	37.6	44.5
	2023	1410	37.6	61.9	37.2	0.9	0.0	37.3	37.9

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

Science: Life Science / Knowing
A_SE4_02 SE71902: Identify the animals with backbones (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	30.6	68.7	30.4	0.8	0.1	28.1	33.4
	2023	696	33.7	65.4	33.3	1.2	0.0	37.3	29.9
United Arab Emirates	2019	3666	26.4	71.8	25.8	2.3	0.1	24.8	27.9
	2023	5593	29.3	69.6	28.9	1.5	0.0	28.4	30.2
United States	2019	1268	21.4	78.0	21.3	0.6	0.1	21.2	21.7
	2023	1304	20.0	79.4	19.8	0.6	0.2	15.6	24.4

International Avg. (25)	2019	20330	26.5	72.6	26.2	1.2	0.1	25.7	27.3
	2023	23915	27.0	72.3	26.7	1.0	0.0	25.9	28.1

Abu Dhabi, UAE	2019	1280	22.4	74.4	21.5	3.8	0.2	20.7	23.7
	2023	2481	23.8	74.6	23.3	2.0	0.0	21.5	25.9
Dubai, UAE	2019	1026	33.0	66.3	32.7	1.1	0.0	33.6	32.6
	2023	1290	37.8	61.7	37.6	0.6	0.1	38.7	37.2
Ontario, Canada	2019	546	12.5	86.0	12.3	1.7	0.0	16.8	8.5
	2023	597	19.3	80.4	19.3	0.3	0.0	21.2	17.0
Quebec, Canada	2019	558	23.9	75.2	23.6	0.9	0.2	20.7	26.2
	2023	532	25.3	73.9	25.0	1.1	0.0	23.3	27.0

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

Science: Life Science / Knowing
A_SE4_03 SE71076: Predator with its prey - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	85.6	2.3	7.4	84.6	4.6	0.8	0.3	85.3	85.9
	2023	1887	84.4	2.0	8.8	84.0	4.7	0.4	0.0	83.8	84.9
Chile	2019	587	81.0	1.8	8.8	79.4	8.1	1.3	0.6	79.7	82.2
	2023	649	75.9	5.8	13.8	75.8	4.5	0.2	0.0	74.9	76.9
Chinese Taipei	2019	544	79.5	4.8	9.4	79.0	6.3	0.6	0.0	75.5	82.9
	2023	446	80.2	2.5	11.2	80.2	6.1	0.0	0.0	78.4	82.4
Czech Republic	2019	672	93.0	0.6	2.8	92.9	3.6	0.1	0.0	92.3	93.5
	2023	947	87.9	1.3	6.2	87.3	4.5	0.6	0.0	88.0	87.8
Denmark	2019	451	86.1	2.1	4.1	84.6	7.4	1.3	0.5	85.6	86.8
	2023	708	83.9	2.2	6.5	83.7	7.3	0.1	0.1	82.9	85.0
England	2019	490	82.1	4.9	8.0	81.4	4.8	0.8	0.0	78.7	85.7
	2023	570	84.0	2.6	6.9	83.8	6.4	0.3	0.0	85.5	82.8
Finland	2019	665	79.1	2.0	8.1	78.3	10.5	1.0	0.0	83.8	74.9
	2023	771	77.1	2.4	11.4	76.8	8.9	0.4	0.0	80.2	74.0
France	2019	596	72.1	3.6	14.9	70.7	8.8	1.8	0.1	74.1	70.2
	2023	663	71.1	4.5	17.1	70.2	7.1	1.0	0.1	69.6	72.6
Georgia	2019	541	55.4	7.1	27.5	54.5	9.3	1.7	0.0	54.5	56.2
	2023	617	53.5	6.3	30.7	53.2	9.2	0.6	0.0	51.4	56.1
Germany	2019	491	78.9	3.3	7.4	77.8	10.1	1.3	0.0	80.8	76.8
	2023	626	79.7	4.1	8.1	79.0	7.9	1.0	0.0	79.4	80.0
Hong Kong SAR	2019	408	68.2	2.1	19.2	68.0	10.4	0.3	0.0	65.5	70.6
	2023	569	68.3	2.9	20.5	68.3	8.4	0.0	0.0	70.3	66.0
Hungary	2019	654	85.7	1.4	7.1	84.8	5.7	1.0	0.0	84.0	87.2
	2023	739	84.8	1.4	9.7	84.8	4.0	0.0	0.0	85.7	84.0
Italy	2019	536	82.9	2.2	8.3	82.2	6.5	0.8	0.0	80.4	85.8
	2023	620	82.9	3.7	10.4	82.3	2.9	0.7	0.0	79.1	86.2
Korea, Rep. of	2019	555	84.8	2.0	11.7	84.8	1.5	0.0	0.0	80.2	88.3
	2023	363	81.6	1.5	13.9	80.5	2.8	1.2	0.1	78.9	84.9
Lithuania	2019	535	89.1	2.0	4.7	88.3	4.1	0.9	0.0	92.1	85.6
	2023	627	87.8	1.8	6.7	87.4	3.6	0.3	0.2	87.5	88.1
Netherlands	2019	478	89.2	0.7	3.6	88.3	6.3	0.9	0.1	90.7	87.7
	2023	502	82.3	2.7	9.3	81.6	5.6	0.6	0.2	79.3	84.3
Norway (5)	2019	566	76.1	3.5	7.1	75.0	12.9	1.5	0.0	73.2	79.2
	2023	728	75.5	4.4	9.9	74.6	10.0	1.1	0.1	76.3	74.8
Portugal	2019	611	71.3	3.0	16.0	71.0	9.5	0.4	0.0	67.6	75.2
	2023	730	72.5	4.3	17.1	72.4	6.0	0.2	0.0	72.3	72.7
Qatar	2019	701	53.5	8.4	19.4	51.7	17.2	2.5	0.8	54.1	53.0
	2023	888	51.1	8.9	29.0	50.7	10.6	0.8	0.1	45.8	55.6
Singapore	2019	850	82.2	3.2	9.4	81.8	5.1	0.4	0.0	79.1	85.2
	2023	599	82.4	2.3	11.9	82.4	3.4	0.0	0.0	83.9	81.0
Slovak Republic	2019	600	89.8	2.3	2.9	89.4	5.0	0.4	0.0	90.3	89.3
	2023	663	85.3	2.7	6.6	85.1	5.4	0.3	0.0	87.1	83.6
Spain	2019	1350	78.9	2.2	10.1	77.9	8.5	1.3	0.0	75.2	82.9
	2023	1410	75.4	3.0	14.8	75.0	6.7	0.5	0.0	71.7	78.8

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

Science: Life Science / Knowing
A_SE4_03 SE71076: Predator with its prey - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	77.2	2.3	8.4	74.8	11.5	2.9	0.1	74.2	80.4
	2023	696	71.4	3.1	11.6	70.5	13.6	1.1	0.1	69.9	73.0
United Arab Emirates	2019	3668	61.4	9.1	14.6	60.6	14.3	1.2	0.2	59.4	63.5
	2023	5593	65.5	9.3	15.3	65.3	9.8	0.2	0.1	63.9	67.1
United States	2019	1268	87.5	2.0	6.0	86.7	4.4	0.8	0.2	87.3	87.7
	2023	1304	87.1	2.6	7.7	86.8	2.6	0.1	0.2	87.5	86.7

International Avg. (25)	2019	20333	78.8	3.2	9.9	77.9	7.9	1.0	0.1	77.7	79.9
	2023	23915	77.3	3.5	12.6	76.9	6.5	0.5	0.1	76.5	78.0

Abu Dhabi, UAE	2019	1281	48.5	12.0	16.3	48.0	22.5	0.9	0.2	47.4	49.6
	2023	2481	55.1	12.6	17.1	55.0	15.0	0.2	0.1	52.3	57.8
Dubai, UAE	2019	1026	79.3	3.8	10.4	78.5	6.3	1.0	0.1	78.5	80.0
	2023	1290	83.5	3.7	8.8	83.2	4.0	0.2	0.1	82.3	84.7
Ontario, Canada	2019	546	87.2	1.9	6.0	86.4	4.8	0.9	0.0	89.0	85.5
	2023	597	87.2	1.5	6.7	86.9	4.6	0.3	0.0	87.6	86.7
Quebec, Canada	2019	558	83.6	2.6	10.1	83.1	3.5	0.4	0.2	79.3	87.1
	2023	532	79.8	2.6	12.9	79.3	4.6	0.6	0.0	79.5	80.1

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

Science: Life Science / Reasoning

A_SE4_04 SE71041: Dandelion Reproduction strategies (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	34.3	45.6	30.8	16.5	6.7	0.4	33.3	35.1
	2023	1887	30.5	50.6	29.5	14.0	5.9	0.0	31.0	30.0
Chile	2019	587	18.4	58.5	20.7	5.1	14.8	0.9	18.5	18.3
	2023	649	20.6	58.6	22.2	7.0	12.1	0.0	19.2	21.9
Chinese Taipei	2019	544	48.5	25.7	42.0	23.0	9.3	0.0	47.9	49.1
	2023	445	54.8	26.1	34.9	35.3	3.7	0.0	59.7	49.1
Czech Republic	2019	672	41.1	34.0	35.2	18.4	12.4	0.0	40.5	41.7
	2023	947	35.3	41.7	32.7	15.4	10.2	0.0	33.0	37.6
Denmark	2019	451	38.7	35.4	30.4	16.8	16.6	0.8	42.3	35.0
	2023	708	41.6	36.9	34.1	21.4	7.6	0.1	43.6	39.5
England	2019	490	31.9	46.5	30.5	13.6	9.4	0.0	32.3	31.4
	2023	569	36.4	42.5	33.4	17.2	6.9	0.1	40.6	32.4
Finland	2019	665	39.2	37.9	28.0	19.5	14.5	0.0	40.9	37.7
	2023	771	38.6	38.3	33.5	17.9	10.3	0.0	43.4	33.7
France	2019	596	20.3	49.1	18.1	5.7	26.8	0.4	18.3	22.4
	2023	663	22.2	51.2	24.9	5.7	18.1	0.1	22.4	22.0
Georgia	2019	541	22.0	45.8	24.4	4.2	25.6	0.0	22.2	21.9
	2023	617	38.4	32.7	30.4	14.7	22.3	0.0	39.3	37.3
Germany	2019	491	34.6	39.1	30.4	13.6	17.0	0.0	34.2	35.1
	2023	626	36.5	38.5	25.9	16.6	19.0	0.0	34.7	38.3
Hong Kong SAR	2019	408	24.3	56.3	28.8	8.3	6.6	0.0	29.2	20.0
	2023	569	28.7	48.8	30.7	10.5	10.0	0.0	30.1	27.2
Hungary	2019	654	46.5	28.4	39.3	22.2	10.1	0.0	45.8	47.2
	2023	739	45.4	33.4	35.9	24.7	6.1	0.0	44.4	46.3
Italy	2019	536	31.5	41.8	29.3	11.3	17.6	0.0	30.5	32.7
	2023	620	33.4	41.2	30.0	13.1	15.7	0.0	32.1	34.4
Korea, Rep. of	2019	555	61.0	20.1	34.0	41.0	4.9	0.0	62.6	59.8
	2023	363	56.0	26.1	30.8	37.4	5.5	0.1	51.1	62.2
Lithuania	2019	535	37.0	37.9	35.4	14.9	11.9	0.0	36.1	38.0
	2023	627	39.3	37.1	35.7	17.8	9.2	0.2	37.3	41.0
Netherlands	2019	478	33.2	44.7	34.1	13.7	7.4	0.1	34.5	31.9
	2023	502	31.7	46.1	35.7	11.8	6.2	0.2	29.7	33.7
Norway (5)	2019	566	45.8	33.9	29.3	26.4	10.4	0.0	48.8	42.8
	2023	728	39.7	39.0	34.2	19.9	6.8	0.1	42.2	37.4
Portugal	2019	611	22.3	53.6	26.1	6.0	14.3	0.0	23.5	21.0
	2023	730	23.1	52.4	25.6	6.8	15.2	0.0	20.3	25.4
Qatar	2019	701	13.9	61.8	14.8	3.8	18.9	0.8	15.3	12.4
	2023	888	14.0	68.1	15.3	4.7	11.7	0.1	13.0	15.0
Singapore	2019	850	54.0	28.5	33.0	36.3	2.1	0.0	52.7	55.2
	2023	599	55.3	27.7	33.4	38.3	0.6	0.0	56.0	54.7
Slovak Republic	2019	600	33.4	40.4	32.8	12.1	14.8	0.0	35.1	31.9
	2023	663	31.1	45.7	32.5	11.7	10.1	0.0	31.6	30.5
Spain	2019	1350	26.9	49.0	29.5	8.7	12.8	0.0	26.5	27.3
	2023	1410	25.2	48.8	25.8	7.9	17.5	0.0	23.7	26.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Life Science / Reasoning

A_SE4_04 SE71041: Dandelion Reproduction strategies (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	40.7	36.4	34.2	19.5	9.7	0.2	42.4	38.8
	2023	696	39.8	38.2	29.0	20.4	12.4	0.1	44.8	34.4
United Arab Emirates	2019	3672	23.8	56.7	25.0	9.1	8.9	0.2	23.6	23.9
	2023	5591	17.4	65.9	23.2	4.7	6.1	0.1	17.9	16.9
United States	2019	1268	38.5	44.2	31.5	21.8	2.1	0.4	36.3	40.8
	2023	1304	32.6	49.2	31.6	15.7	3.4	0.2	30.8	34.4

International Avg. (25)	2019	20337	34.5	42.0	29.9	15.7	12.2	0.2	34.9	34.1
	2023	23911	34.7	43.4	30.0	16.4	10.1	0.1	34.9	34.5

Abu Dhabi, UAE	2019	1284	16.3	67.2	18.3	5.7	8.6	0.2	17.1	15.2
	2023	2481	13.1	71.8	18.0	3.2	6.8	0.2	13.2	13.1
Dubai, UAE	2019	1026	33.8	45.8	36.4	14.5	3.2	0.1	35.0	32.8
	2023	1289	28.4	50.9	37.9	8.8	2.2	0.1	29.4	27.5
Ontario, Canada	2019	546	32.9	47.3	33.2	14.8	4.5	0.2	32.3	33.6
	2023	597	33.0	48.2	30.9	15.9	5.0	0.0	33.3	32.3
Quebec, Canada	2019	558	34.4	44.4	29.8	16.1	9.4	0.2	32.5	35.3
	2023	532	22.9	59.0	26.2	8.3	6.5	0.0	22.0	23.5

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

Science: Life Science / Applying
A_SE4_05 SE71046: Characteristics of the rabbit's mate (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	45.2	53.7	44.3	0.9	1.1	47.5	43.0
	2023	1887	41.4	58.3	41.2	0.5	0.0	41.3	41.4
Chile	2019	587	38.2	59.2	36.6	2.2	2.1	39.9	36.6
	2023	649	29.0	70.0	28.6	0.6	0.8	29.9	28.2
Chinese Taipei	2019	544	50.8	48.8	50.4	0.8	0.0	51.8	50.0
	2023	446	45.6	54.4	45.6	0.0	0.0	45.4	45.7
Czech Republic	2019	672	50.3	48.9	49.6	1.5	0.0	52.2	48.7
	2023	947	50.4	49.3	50.0	0.7	0.0	49.4	51.3
Denmark	2019	451	46.0	51.9	44.2	3.0	0.8	54.0	37.1
	2023	708	37.3	61.9	36.8	0.9	0.3	43.4	30.7
England	2019	490	50.2	49.6	49.9	0.5	0.0	50.6	49.6
	2023	570	51.4	48.3	51.2	0.4	0.1	53.5	49.3
Finland	2019	665	67.3	32.3	66.3	1.3	0.1	73.2	61.9
	2023	771	61.3	38.2	60.5	1.2	0.1	68.4	54.1
France	2019	596	42.1	55.7	40.5	3.5	0.4	49.1	35.2
	2023	663	44.7	54.3	44.0	1.6	0.1	46.0	43.5
Georgia	2019	541	31.2	65.3	29.6	4.5	0.5	31.7	30.8
	2023	617	31.0	67.5	30.3	2.1	0.1	29.5	32.8
Germany	2019	491	53.0	46.4	52.3	0.9	0.5	58.4	47.2
	2023	626	50.1	49.1	49.2	1.6	0.1	51.7	48.3
Hong Kong SAR	2019	408	28.8	70.5	28.5	1.0	0.0	29.0	28.7
	2023	569	35.3	64.6	35.3	0.1	0.0	37.6	32.8
Hungary	2019	654	51.2	48.3	50.6	1.1	0.0	51.3	51.1
	2023	739	49.2	50.8	49.1	0.0	0.1	53.5	44.7
Italy	2019	536	50.0	48.7	48.7	2.4	0.2	50.8	49.1
	2023	619	50.6	49.4	50.5	0.1	0.0	46.3	54.4
Korea, Rep. of	2019	555	70.8	28.9	70.2	0.9	0.0	73.4	68.7
	2023	363	70.7	29.3	70.6	0.0	0.1	72.2	68.8
Lithuania	2019	535	47.2	52.1	46.6	1.3	0.0	53.0	40.5
	2023	627	45.3	54.6	45.2	0.0	0.2	50.7	40.6
Netherlands	2019	478	49.4	49.8	48.6	1.6	0.1	52.0	46.6
	2023	502	49.1	50.1	48.4	1.3	0.2	48.3	50.1
Norway (5)	2019	566	57.8	41.2	56.5	2.2	0.1	56.5	59.2
	2023	728	56.2	43.3	55.7	0.7	0.2	54.4	58.0
Portugal	2019	611	42.6	56.5	42.0	1.4	0.1	43.3	41.9
	2023	730	38.2	61.1	37.9	0.8	0.2	41.5	35.5
Qatar	2019	701	16.5	79.3	15.7	2.5	2.6	16.2	16.7
	2023	888	17.8	81.0	17.5	1.0	0.5	16.0	19.3
Singapore	2019	850	62.4	37.4	62.1	0.6	0.0	58.9	65.8
	2023	599	63.1	36.9	63.1	0.0	0.0	60.2	65.9
Slovak Republic	2019	600	50.7	48.8	50.1	1.1	0.0	55.4	46.3
	2023	663	48.1	51.5	47.8	0.6	0.1	51.1	45.2
Spain	2019	1350	50.3	48.5	49.1	2.5	0.0	47.3	53.3
	2023	1410	47.0	52.6	46.6	0.5	0.2	46.7	47.2

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

Science: Life Science / Applying
A_SE4_05 SE71046: Characteristics of the rabbit's mate (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	57.7	41.3	56.3	2.1	0.2	61.1	53.9
	2023	696	52.7	46.8	52.1	0.7	0.3	52.1	53.2
United Arab Emirates	2019	3662	22.5	75.5	21.9	2.0	0.6	21.9	23.2
	2023	5593	29.1	70.2	28.9	0.5	0.3	29.8	28.6
United States	2019	1268	49.6	49.5	48.7	1.2	0.5	51.1	48.1
	2023	1304	46.3	53.2	45.8	0.6	0.3	45.0	47.6

International Avg. (25)	2019	20327	47.3	51.5	46.4	1.7	0.4	49.2	45.3
	2023	23914	45.6	53.9	45.3	0.7	0.2	46.6	44.7

Abu Dhabi, UAE	2019	1279	11.8	85.7	11.4	2.1	0.9	12.1	11.6
	2023	2481	21.2	78.1	21.0	0.4	0.4	20.4	21.9
Dubai, UAE	2019	1026	37.7	61.9	37.4	0.6	0.1	37.6	37.7
	2023	1290	47.0	52.8	46.9	0.2	0.1	49.4	44.9
Ontario, Canada	2019	546	41.7	57.2	41.0	0.6	1.3	41.3	42.2
	2023	597	36.7	63.2	36.5	0.3	0.0	36.3	36.9
Quebec, Canada	2019	558	52.5	46.9	51.8	0.8	0.5	58.9	47.3
	2023	532	43.5	56.3	43.4	0.3	0.0	41.6	45.0

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

Science: Life Science / Knowing
A_SE4_06 SE71095: Germs from George's cough - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	70.9	28.0	68.1	2.7	1.2	76.3	66.2
	2023	1887	65.2	34.1	63.8	2.1	0.0	72.2	58.1
Chile	2019	587	39.0	55.8	35.7	6.2	2.2	42.9	35.2
	2023	649	45.3	51.9	43.0	4.4	0.8	50.1	40.8
Chinese Taipei	2019	544	28.5	68.1	27.1	4.8	0.0	33.4	24.0
	2023	446	32.4	67.0	32.1	0.9	0.0	35.6	28.6
Czech Republic	2019	672	41.1	55.8	39.0	5.1	0.0	45.1	37.9
	2023	947	50.4	47.9	48.7	3.4	0.0	55.0	45.7
Denmark	2019	451	60.8	36.9	57.3	4.9	0.8	67.1	53.8
	2023	708	63.1	35.9	61.4	2.4	0.3	65.3	60.7
England	2019	490	65.1	34.3	63.9	1.8	0.0	65.1	65.1
	2023	570	67.2	32.1	65.8	1.9	0.1	72.0	62.3
Finland	2019	665	74.4	25.1	72.8	1.9	0.1	79.7	69.5
	2023	771	72.2	27.1	70.5	2.4	0.1	78.4	65.8
France	2019	596	53.4	40.6	46.6	12.4	0.4	60.2	46.7
	2023	663	52.7	45.5	50.7	3.7	0.1	55.0	50.3
Georgia	2019	541	25.6	65.9	22.6	10.2	1.2	24.0	27.0
	2023	617	30.2	63.0	27.3	9.6	0.1	32.8	27.1
Germany	2019	491	72.4	26.4	69.2	3.9	0.5	75.9	68.6
	2023	626	64.1	34.1	60.9	4.7	0.3	67.4	60.7
Hong Kong SAR	2019	408	30.6	66.9	29.5	3.6	0.0	34.2	27.4
	2023	569	36.3	60.6	34.6	4.8	0.0	39.7	32.6
Hungary	2019	654	43.3	54.3	41.4	3.8	0.5	46.0	40.8
	2023	739	44.9	53.8	43.9	2.2	0.1	49.5	40.3
Italy	2019	536	40.2	56.1	37.7	6.0	0.2	41.2	39.1
	2023	620	49.3	48.3	47.0	4.7	0.0	48.5	50.0
Korea, Rep. of	2019	555	78.2	21.6	77.7	0.6	0.0	84.0	73.7
	2023	363	73.3	26.3	72.0	1.6	0.1	77.0	68.5
Lithuania	2019	535	59.3	39.7	57.8	2.5	0.0	62.2	55.8
	2023	627	64.8	34.2	62.9	2.7	0.2	66.6	63.3
Netherlands	2019	478	62.8	36.0	60.9	3.0	0.2	63.5	62.2
	2023	502	58.6	40.3	56.9	2.6	0.2	63.5	54.9
Norway (5)	2019	566	65.2	33.7	63.2	2.6	0.4	67.7	62.7
	2023	728	65.9	33.2	64.2	2.1	0.5	74.2	57.9
Portugal	2019	611	48.2	49.3	45.9	4.7	0.1	54.1	41.9
	2023	730	50.3	47.6	48.3	3.8	0.4	52.6	48.5
Qatar	2019	701	34.1	58.8	30.5	8.0	2.8	36.0	32.3
	2023	888	37.9	58.8	35.8	4.8	0.6	36.0	39.5
Singapore	2019	850	40.9	58.2	40.3	1.5	0.0	42.1	39.7
	2023	599	49.5	50.4	49.4	0.2	0.0	48.7	50.3
Slovak Republic	2019	600	41.4	55.5	39.3	5.2	0.0	40.4	42.3
	2023	663	39.0	59.2	37.8	2.8	0.1	47.5	30.8
Spain	2019	1350	42.7	55.2	41.1	3.8	0.0	45.3	39.9
	2023	1410	43.9	53.4	41.7	4.7	0.2	47.9	39.9

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

Science: Life Science / Knowing
A_SE4_06 SE71095: Germs from George's cough - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	65.4	33.3	62.8	3.7	0.2	69.2	61.1
	2023	696	66.4	31.8	63.0	4.9	0.3	74.1	58.3
United Arab Emirates	2019	3670	32.9	62.4	30.7	6.1	0.7	34.0	31.9
	2023	5592	35.5	61.8	34.0	3.9	0.4	36.5	34.6
United States	2019	1268	73.6	25.9	72.1	1.3	0.8	73.8	73.4
	2023	1304	63.2	36.2	62.2	1.2	0.4	64.6	61.8

International Avg. (25)	2019	20335	51.6	45.8	49.3	4.4	0.5	54.5	48.7
	2023	23914	52.9	45.4	51.1	3.3	0.2	56.4	49.3

Abu Dhabi, UAE	2019	1284	26.4	68.6	24.6	5.7	1.1	29.3	23.4
	2023	2481	30.2	66.2	28.7	4.6	0.5	32.2	28.4
Dubai, UAE	2019	1026	50.0	49.0	49.1	1.8	0.1	52.4	48.0
	2023	1290	53.5	45.9	52.8	1.2	0.1	53.0	54.0
Ontario, Canada	2019	546	69.7	29.2	67.1	2.2	1.4	74.6	65.4
	2023	597	68.6	30.8	67.3	1.9	0.0	75.6	60.3
Quebec, Canada	2019	558	68.5	30.3	65.9	3.2	0.6	75.0	63.2
	2023	532	57.0	42.0	55.6	2.4	0.0	63.3	51.5

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

Science: Physical Science / Applying

A_SE4_07 SE71129: Identify circuit with a lit bulb - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	74.7	72.5	3.0	12.5	9.1	1.1	1.7	71.5	77.4
	2023	1887	77.9	77.2	1.6	12.9	7.5	0.8	0.0	73.8	81.9
Chile	2019	587	70.5	67.6	3.0	16.9	8.3	1.2	3.0	69.6	71.4
	2023	649	77.4	75.6	3.6	12.3	6.2	1.6	0.8	72.7	81.8
Chinese Taipei	2019	544	94.4	94.1	0.2	3.5	2.0	0.3	0.0	95.1	93.8
	2023	446	98.6	98.6	0.0	1.1	0.4	0.0	0.0	99.0	98.1
Czech Republic	2019	672	84.1	83.7	0.4	8.5	6.9	0.5	0.0	82.3	85.6
	2023	947	81.3	80.8	1.4	11.3	5.9	0.6	0.0	80.2	82.4
Denmark	2019	451	83.9	81.2	1.8	8.5	5.3	2.3	0.8	87.6	79.7
	2023	708	84.6	83.7	1.3	8.6	5.3	0.4	0.7	83.4	85.8
England	2019	490	87.4	87.1	1.2	5.9	5.5	0.4	0.0	84.2	90.8
	2023	570	89.9	89.6	1.1	4.4	4.5	0.2	0.2	88.2	91.6
Finland	2019	665	73.5	72.9	2.6	18.1	5.6	0.8	0.1	69.0	77.7
	2023	771	76.9	76.8	2.0	16.2	4.9	0.1	0.1	74.9	78.9
France	2019	596	73.6	72.6	2.0	17.1	7.0	0.9	0.4	68.0	79.0
	2023	663	73.5	72.3	3.1	13.7	9.3	1.3	0.3	70.6	76.5
Georgia	2019	540	61.6	59.8	5.1	18.5	13.6	1.3	1.6	55.4	67.6
	2023	617	68.1	66.7	3.6	12.7	14.9	1.3	0.7	66.5	70.1
Germany	2019	491	90.5	89.6	1.2	4.0	4.3	0.0	1.0	90.2	90.8
	2023	626	85.5	84.9	0.5	9.9	4.1	0.5	0.3	83.2	87.9
Hong Kong SAR	2019	408	88.5	88.3	1.0	6.0	4.4	0.2	0.0	87.2	89.7
	2023	569	92.4	92.4	0.3	3.9	3.5	0.0	0.0	90.0	94.9
Hungary	2019	654	56.3	55.7	21.0	10.4	11.7	0.2	1.0	48.3	63.6
	2023	739	54.5	54.1	21.8	10.5	12.9	0.3	0.4	49.1	59.9
Italy	2019	536	66.9	65.0	2.4	19.6	10.2	2.2	0.5	63.1	71.4
	2023	620	70.0	68.8	4.2	17.5	7.8	1.7	0.0	67.6	72.1
Korea, Rep. of	2019	555	83.1	82.9	2.1	8.5	6.3	0.2	0.0	79.4	86.0
	2023	363	89.1	89.0	2.8	4.1	3.9	0.0	0.1	88.0	90.6
Lithuania	2019	535	88.5	88.2	2.5	5.8	3.1	0.4	0.0	87.4	89.8
	2023	627	86.3	86.1	2.7	7.1	3.9	0.1	0.2	85.3	87.1
Netherlands	2019	478	87.5	87.0	1.6	7.3	3.5	0.3	0.2	87.5	87.5
	2023	502	82.2	81.5	3.5	8.9	5.3	0.5	0.2	77.8	85.6
Norway (5)	2019	566	80.6	78.8	0.9	11.0	7.1	1.7	0.5	79.4	81.7
	2023	728	73.7	72.8	2.8	12.1	11.1	0.7	0.5	70.4	76.8
Portugal	2019	611	79.4	78.2	2.2	11.8	6.2	1.4	0.2	78.2	80.8
	2023	730	76.5	76.0	3.1	13.0	7.3	0.2	0.5	78.2	75.0
Qatar	2019	701	78.0	74.6	4.1	10.7	6.3	0.9	3.4	77.7	78.2
	2023	888	82.8	81.9	2.4	10.2	4.4	0.5	0.7	83.3	82.4
Singapore	2019	850	92.9	92.4	1.1	2.5	3.5	0.5	0.0	90.4	95.4
	2023	599	93.4	93.4	1.6	3.5	1.5	0.0	0.0	92.3	94.3
Slovak Republic	2019	600	79.6	78.5	2.5	11.1	6.6	1.4	0.0	75.2	83.6
	2023	663	79.9	79.0	2.6	11.0	6.3	0.9	0.1	75.0	84.7
Spain	2019	1350	75.5	74.2	1.7	12.2	10.2	1.5	0.2	72.8	78.3
	2023	1410	76.0	75.1	2.8	12.9	8.0	0.8	0.4	74.7	77.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Applying

A_SE4_07 SE71129: Identify circuit with a lit bulb - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	85.5	84.4	1.9	8.2	4.2	1.0	0.4	80.4	91.1
	2023	696	89.1	87.7	1.0	6.7	3.0	0.8	0.7	87.3	91.0
United Arab Emirates	2019	3670	78.2	76.1	4.2	11.0	6.0	1.7	1.1	78.0	78.2
	2023	5593	83.6	82.8	2.8	9.0	4.5	0.4	0.5	82.7	84.5
United States	2019	1268	86.3	84.6	1.2	6.6	5.6	0.9	1.2	83.9	88.7
	2023	1304	83.9	83.1	2.1	8.2	5.7	0.4	0.5	79.5	88.4

International Avg. (25)	2019	20334	80.0	78.8	2.8	10.2	6.5	0.9	0.7	77.7	82.3
	2023	23915	81.1	80.4	3.0	9.7	6.1	0.6	0.3	79.0	83.2

Abu Dhabi, UAE	2019	1281	74.4	71.8	4.0	13.8	6.9	2.3	1.2	75.0	73.3
	2023	2481	79.2	78.3	3.3	11.7	5.7	0.4	0.7	78.6	79.7
Dubai, UAE	2019	1026	89.3	88.6	3.1	5.1	2.4	0.5	0.4	89.4	89.3
	2023	1290	91.5	91.1	1.7	3.8	3.1	0.1	0.3	90.1	92.9
Ontario, Canada	2019	546	73.4	71.1	3.3	13.0	9.6	0.9	2.2	69.9	76.5
	2023	597	77.2	76.9	1.5	12.9	8.3	0.4	0.0	77.1	77.2
Quebec, Canada	2019	558	75.1	73.3	2.6	13.8	7.9	1.3	1.2	74.1	75.8
	2023	532	77.9	76.7	1.6	12.5	7.7	1.5	0.0	68.3	85.9

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

Science: Physical Science / Applying
A_SE4_08 SE71102: Movement of Train Car A - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	33.7	64.4	32.7	1.0	1.8	31.8	35.2
	2023	1887	24.9	74.6	24.8	0.5	0.1	22.0	27.9
Chile	2019	587	12.0	82.2	11.2	3.6	3.1	11.6	12.3
	2023	649	8.7	87.1	8.3	3.3	1.4	6.5	10.7
Chinese Taipei	2019	544	67.2	32.5	66.7	0.8	0.0	70.4	64.5
	2023	445	59.6	40.4	59.6	0.0	0.0	58.2	61.4
Czech Republic	2019	672	25.4	73.6	25.0	1.4	0.0	28.5	22.8
	2023	947	15.6	83.4	15.4	1.2	0.0	14.2	16.9
Denmark	2019	451	27.0	68.9	25.5	4.4	1.2	26.8	27.3
	2023	708	12.3	85.1	11.9	2.3	0.7	14.2	10.3
England	2019	490	24.3	74.7	24.0	1.4	0.0	22.3	26.4
	2023	570	40.4	58.9	40.0	0.8	0.3	43.6	37.9
Finland	2019	665	31.4	67.4	30.9	1.7	0.1	35.2	28.0
	2023	771	23.3	75.3	22.8	1.8	0.1	21.7	24.9
France	2019	596	10.4	85.9	10.0	3.7	0.4	11.0	9.7
	2023	663	6.0	90.5	5.8	3.2	0.4	5.1	6.9
Georgia	2019	541	8.4	85.1	7.8	5.5	1.6	6.1	10.5
	2023	617	9.1	85.9	8.6	4.7	0.8	10.2	7.8
Germany	2019	491	40.0	58.6	39.1	1.4	1.0	34.2	46.1
	2023	626	20.2	77.9	19.7	1.8	0.6	16.0	24.4
Hong Kong SAR	2019	408	38.7	61.0	38.5	0.4	0.0	35.2	41.8
	2023	569	41.7	57.8	41.4	0.8	0.0	39.2	44.5
Hungary	2019	654	33.2	65.7	32.6	0.6	1.0	35.6	31.0
	2023	738	26.4	73.2	26.3	0.1	0.4	21.7	31.3
Italy	2019	536	15.9	81.4	15.4	2.5	0.7	11.7	20.9
	2023	620	9.2	89.1	9.0	1.7	0.2	6.9	11.2
Korea, Rep. of	2019	555	78.6	21.3	78.2	0.6	0.0	78.4	78.8
	2023	363	71.2	28.6	70.5	0.8	0.1	71.2	71.2
Lithuania	2019	535	35.3	63.6	34.7	1.7	0.0	37.9	32.2
	2023	627	36.1	63.1	35.6	1.1	0.2	34.6	37.3
Netherlands	2019	478	29.8	68.8	29.2	1.8	0.2	30.5	29.0
	2023	502	14.6	83.4	14.3	2.0	0.2	15.9	13.3
Norway (5)	2019	566	43.5	55.5	42.7	1.3	0.5	45.1	41.7
	2023	728	26.9	71.7	26.4	1.4	0.5	28.8	25.0
Portugal	2019	611	23.2	75.3	22.8	1.5	0.4	23.0	23.4
	2023	730	19.7	79.2	19.4	0.7	0.7	21.2	18.5
Qatar	2019	701	30.3	65.7	28.6	2.2	3.6	32.8	27.9
	2023	888	35.1	63.5	34.4	1.2	0.9	34.9	35.3
Singapore	2019	850	90.0	9.9	89.7	0.4	0.0	90.2	89.9
	2023	599	87.6	12.4	87.6	0.0	0.0	90.1	85.2
Slovak Republic	2019	600	50.4	49.1	50.0	0.8	0.0	48.2	52.5
	2023	663	36.1	62.9	35.6	1.4	0.1	37.8	34.4
Spain	2019	1350	24.1	74.9	23.7	1.1	0.2	19.6	28.6
	2023	1410	20.9	77.4	20.4	1.8	0.4	20.7	21.1

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

Science: Physical Science / Applying
A_SE4_08 SE71102: Movement of Train Car A - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	30.8	67.6	30.0	1.9	0.4	26.6	35.4
	2023	696	17.7	79.9	17.2	2.1	0.7	20.4	14.7
United Arab Emirates	2019	3671	39.0	59.2	37.8	1.7	1.3	40.2	38.1
	2023	5593	40.5	58.7	40.0	0.5	0.7	42.3	38.9
United States	2019	1268	42.6	56.0	41.6	1.1	1.4	41.3	43.8
	2023	1304	39.6	59.5	38.9	0.8	0.8	36.2	43.0

International Avg. (25)	2019	20336	35.4	62.7	34.7	1.8	0.8	35.0	35.9
	2023	23913	29.7	68.8	29.4	1.4	0.4	29.3	30.2

Abu Dhabi, UAE	2019	1283	27.2	70.0	26.2	2.2	1.6	28.9	26.0
	2023	2481	31.4	67.6	31.0	0.6	0.9	33.3	29.7
Dubai, UAE	2019	1026	54.8	44.7	54.2	0.7	0.4	56.5	53.3
	2023	1290	61.6	38.2	61.2	0.2	0.3	63.9	59.5
Ontario, Canada	2019	546	37.8	60.3	36.6	0.9	2.2	36.9	38.6
	2023	597	26.4	73.4	26.3	0.2	0.0	21.4	32.3
Quebec, Canada	2019	558	24.0	74.3	23.4	1.0	1.4	21.4	25.4
	2023	532	14.7	84.9	14.6	0.4	0.0	9.9	18.8

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

Science: Physical Science / Reasoning

A_SE4_09 SE71124: Relationship between force and sound - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	54.3	21.0	51.7	11.5	11.0	2.8	2.0	49.5	58.4
	2023	1887	51.4	23.1	50.5	12.3	12.4	1.6	0.1	48.7	54.2
Chile	2019	587	49.3	25.1	44.4	12.4	8.2	5.8	4.1	45.7	52.7
	2023	649	48.0	25.3	46.3	13.9	11.0	1.8	1.7	42.0	53.5
Chinese Taipei	2019	544	80.9	11.2	80.2	4.7	3.0	0.5	0.4	82.6	79.5
	2023	446	77.8	13.3	77.8	5.3	3.6	0.0	0.0	77.8	77.8
Czech Republic	2019	672	58.1	20.7	56.1	9.0	10.7	3.4	0.0	53.4	61.9
	2023	947	58.8	20.5	57.6	9.7	10.3	1.9	0.0	55.4	62.1
Denmark	2019	451	64.1	12.9	60.5	5.8	15.2	4.0	1.6	62.6	65.7
	2023	708	65.5	14.9	63.7	5.8	12.9	1.8	0.9	65.3	65.6
England	2019	490	57.5	19.5	56.2	9.5	12.6	2.2	0.0	54.7	60.5
	2023	570	60.7	19.4	60.0	10.8	8.7	0.9	0.3	61.9	59.3
Finland	2019	665	60.6	15.4	58.6	9.4	13.3	3.0	0.3	61.9	59.5
	2023	771	65.7	15.0	64.5	8.3	10.4	1.6	0.2	67.0	64.4
France	2019	596	55.3	21.1	51.0	10.2	9.9	7.0	0.7	56.1	54.5
	2023	663	60.3	18.9	57.8	9.5	9.7	3.7	0.4	63.0	57.4
Georgia	2019	541	43.4	18.2	38.5	15.3	16.6	9.4	2.0	42.7	44.1
	2023	617	49.4	22.2	46.1	10.8	14.2	5.6	1.1	50.4	48.3
Germany	2019	491	46.1	22.2	42.7	15.1	12.6	6.2	1.2	43.2	49.2
	2023	626	49.2	17.8	47.0	15.7	15.1	3.6	0.8	44.3	54.1
Hong Kong SAR	2019	408	69.2	17.5	68.0	7.4	5.4	1.7	0.0	67.4	70.8
	2023	569	71.7	13.2	71.2	9.5	5.4	0.7	0.0	70.7	72.8
Hungary	2019	654	51.2	21.4	50.0	11.3	14.9	1.4	1.0	48.4	53.7
	2023	739	56.3	20.0	55.8	11.3	12.1	0.4	0.4	54.7	57.9
Italy	2019	536	55.3	20.9	51.9	11.3	9.8	5.4	0.7	50.1	61.5
	2023	620	57.3	18.1	55.8	10.8	12.7	2.0	0.5	54.5	59.7
Korea, Rep. of	2019	555	85.7	9.7	85.1	3.2	1.4	0.7	0.0	86.5	85.1
	2023	363	76.7	15.3	75.9	4.0	3.8	0.8	0.1	71.9	82.7
Lithuania	2019	535	66.4	15.7	65.2	7.2	10.0	1.5	0.3	65.4	67.6
	2023	627	75.7	10.5	75.4	5.9	7.8	0.2	0.2	75.5	76.0
Netherlands	2019	478	74.5	10.6	72.5	6.2	8.1	2.5	0.2	69.6	79.6
	2023	502	62.1	18.2	61.5	6.3	13.0	0.8	0.2	58.3	64.5
Norway (5)	2019	566	62.6	14.2	60.8	8.9	13.2	2.4	0.5	57.7	67.6
	2023	728	64.9	14.9	63.3	6.5	12.8	2.0	0.6	63.8	66.0
Portugal	2019	611	49.9	21.7	48.1	10.9	15.6	3.1	0.6	42.5	57.7
	2023	730	53.0	18.6	51.8	14.7	12.6	1.5	0.8	50.1	55.4
Qatar	2019	701	43.4	27.6	39.7	16.0	8.3	4.8	3.6	44.4	42.4
	2023	888	41.8	27.8	40.6	15.6	13.1	1.4	1.5	36.0	46.8
Singapore	2019	850	83.9	9.3	83.2	4.3	2.3	0.8	0.0	83.0	84.7
	2023	599	87.6	8.1	87.6	2.5	1.8	0.0	0.0	87.4	87.8
Slovak Republic	2019	600	62.8	20.0	60.7	7.2	8.8	3.3	0.0	60.5	64.9
	2023	663	61.9	19.4	60.8	7.6	10.4	1.6	0.2	60.1	63.7
Spain	2019	1350	55.1	25.0	53.8	9.5	9.4	2.1	0.2	53.1	57.2
	2023	1410	56.0	21.4	54.6	10.9	10.5	2.0	0.5	54.1	57.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Reasoning

A_SE4_09 SE71124: Relationship between force and sound - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	62.3	19.5	60.5	7.2	9.8	2.4	0.6	57.0	68.4
	2023	696	67.3	15.9	64.9	6.6	8.9	2.9	0.7	68.6	65.9
United Arab Emirates	2019	3666	47.4	24.9	45.1	15.4	9.9	3.2	1.5	46.3	48.6
	2023	5593	52.4	24.1	51.3	13.9	8.6	1.3	0.9	52.2	52.6
United States	2019	1268	55.9	22.8	54.0	10.3	9.6	1.7	1.7	50.9	60.7
	2023	1304	55.5	24.5	54.7	10.9	8.4	0.6	1.0	48.6	62.5

International Avg. (25)	2019	20331	59.8	18.7	57.5	9.6	10.0	3.3	0.9	57.4	62.3
	2023	23915	61.1	18.4	59.9	9.6	10.0	1.6	0.5	59.3	62.8

Abu Dhabi, UAE	2019	1281	39.6	26.7	37.4	19.6	10.9	3.4	2.0	40.7	38.8
	2023	2481	45.6	24.7	44.5	18.9	9.5	1.2	1.2	44.7	46.4
Dubai, UAE	2019	1026	59.5	21.6	58.0	9.8	8.1	2.0	0.5	57.7	60.9
	2023	1290	65.2	21.2	64.8	6.9	6.4	0.3	0.4	65.4	65.0
Ontario, Canada	2019	546	52.0	21.3	49.4	13.1	11.3	2.6	2.3	45.3	58.0
	2023	597	49.0	25.0	48.1	11.8	13.2	1.9	0.0	45.6	53.0
Quebec, Canada	2019	558	63.6	16.5	61.2	9.0	9.5	2.5	1.4	59.2	66.8
	2023	532	58.7	17.7	58.0	11.1	12.1	0.9	0.1	57.8	59.5

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

Science: Physical Science / Applying

A_SE4_10 SE71112: Material of Jenny's spoon - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	81.1	9.2	3.7	5.2	77.9	1.2	2.7	82.3	80.0
	2023	1887	83.1	8.1	3.7	4.9	82.5	0.3	0.4	82.7	83.5
Chile	2019	587	77.5	13.0	2.0	5.8	71.7	1.5	6.0	80.1	75.1
	2023	649	77.8	10.4	6.0	5.2	75.9	0.6	1.9	80.9	78.7
Chinese Taipei	2019	544	81.5	5.9	2.3	10.2	81.0	0.1	0.6	80.3	82.6
	2023	446	82.7	4.9	3.2	9.2	82.7	0.0	0.0	80.9	84.7
Czech Republic	2019	672	92.0	4.8	0.4	2.6	90.1	1.8	0.2	92.3	91.8
	2023	947	91.7	4.1	0.8	3.4	91.4	0.1	0.2	92.0	91.4
Denmark	2019	451	82.5	7.6	3.3	6.3	80.9	0.0	1.9	86.3	78.2
	2023	708	79.5	8.0	3.7	8.6	78.8	0.0	0.9	79.9	79.1
England	2019	490	82.9	8.3	4.2	4.5	82.0	0.6	0.4	81.5	84.3
	2023	570	85.2	8.0	2.5	4.3	84.7	0.0	0.6	88.9	81.6
Finland	2019	665	92.1	3.1	0.8	4.0	91.2	0.6	0.3	91.3	92.8
	2023	771	91.6	2.5	1.6	4.2	91.4	0.0	0.2	90.4	92.8
France	2019	596	73.4	15.5	4.3	6.0	71.2	1.7	1.3	72.2	74.6
	2023	663	74.5	15.0	3.6	6.4	73.0	0.7	1.3	74.4	74.7
Georgia	2019	541	75.9	12.1	1.8	8.4	70.2	3.9	3.7	75.3	76.5
	2023	617	78.7	9.5	3.1	8.1	76.7	0.1	2.4	77.1	80.6
Germany	2019	491	85.3	9.9	1.8	2.4	82.2	1.4	2.2	83.0	87.6
	2023	626	87.2	6.2	1.2	5.1	85.4	0.6	1.4	86.0	88.4
Hong Kong SAR	2019	408	84.3	5.2	4.8	5.6	83.6	0.6	0.2	81.4	86.8
	2023	569	82.8	7.1	4.2	5.9	82.5	0.1	0.2	81.0	84.7
Hungary	2019	654	77.2	15.6	2.8	4.1	75.8	0.4	1.4	76.0	78.3
	2023	739	79.3	13.0	1.5	6.2	78.8	0.2	0.4	81.9	76.6
Italy	2019	536	78.6	16.5	1.6	2.5	75.8	2.0	1.6	76.2	81.5
	2023	620	79.1	14.6	2.1	3.9	78.0	0.2	1.2	76.3	81.6
Korea, Rep. of	2019	555	91.1	2.8	1.8	4.2	90.4	0.8	0.0	92.2	90.2
	2023	363	91.0	1.8	1.7	5.5	90.9	0.0	0.1	90.1	92.2
Lithuania	2019	535	87.9	6.5	1.3	4.2	86.7	1.0	0.3	88.1	87.7
	2023	627	88.0	4.3	3.8	3.9	87.9	0.0	0.2	90.2	86.2
Netherlands	2019	478	74.9	12.5	4.6	7.5	73.6	1.4	0.3	74.7	75.2
	2023	502	77.9	11.3	3.9	6.8	77.7	0.0	0.2	80.4	75.5
Norway (5)	2019	566	79.8	9.0	3.2	7.6	78.7	0.8	0.6	82.6	76.9
	2023	728	80.8	7.6	5.3	6.1	79.8	0.3	1.0	80.7	80.9
Portugal	2019	611	66.3	21.9	5.3	5.5	64.4	0.9	1.9	65.8	66.8
	2023	730	70.6	18.2	5.4	5.3	69.5	0.1	1.5	71.2	70.2
Qatar	2019	701	68.7	12.4	5.1	11.9	64.5	1.4	4.7	67.8	69.5
	2023	888	78.2	11.0	4.1	6.3	76.9	0.0	1.7	78.8	77.7
Singapore	2019	850	94.2	1.8	1.1	2.8	93.8	0.4	0.0	95.1	93.4
	2023	599	94.1	2.2	1.4	2.3	93.9	0.2	0.0	93.9	94.3
Slovak Republic	2019	600	90.0	4.7	1.5	3.6	88.9	1.2	0.0	89.6	90.3
	2023	663	90.3	5.5	1.4	2.7	89.5	0.6	0.3	90.3	90.4
Spain	2019	1350	74.5	15.8	3.6	5.7	73.2	1.4	0.3	70.9	78.1
	2023	1410	80.2	12.5	2.6	4.5	79.4	0.4	0.7	78.3	82.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Physical Science / Applying
A_SE4_10 SE71112: Material of Jenny's spoon - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	87.5	6.1	1.5	4.5	84.9	2.3	0.6	87.4	87.6
	2023	696	85.9	6.2	3.2	4.5	85.2	0.1	0.7	85.9	86.0
United Arab Emirates	2019	3667	71.3	13.3	6.0	8.4	68.8	1.3	2.1	71.3	71.3
	2023	5593	74.1	13.1	4.8	7.4	72.4	0.6	1.8	74.7	73.6
United States	2019	1268	84.3	6.8	3.8	4.6	81.4	1.1	2.4	84.0	84.6
	2023	1304	83.6	6.3	4.2	5.6	82.2	0.3	1.4	82.5	84.8

International Avg. (25)	2019	20332	81.4	9.6	2.9	5.5	79.3	1.2	1.4	81.1	81.7
	2023	23915	82.7	8.4	3.2	5.5	81.9	0.2	0.8	82.6	82.9

Abu Dhabi, UAE	2019	1284	61.0	17.3	9.0	11.0	58.5	1.4	2.8	61.8	60.1
	2023	2481	66.0	17.4	6.4	9.3	64.3	0.6	2.1	66.9	65.2
Dubai, UAE	2019	1026	83.8	9.1	3.1	3.8	82.3	0.8	1.0	82.4	85.0
	2023	1290	87.5	6.9	1.7	3.7	86.4	0.7	0.6	87.6	87.3
Ontario, Canada	2019	546	78.4	10.0	3.7	6.9	74.9	1.3	3.2	83.7	73.6
	2023	597	83.6	9.1	2.6	4.6	83.0	0.2	0.5	83.6	83.5
Quebec, Canada	2019	558	83.8	8.4	4.1	3.3	81.7	0.6	1.8	81.3	85.6
	2023	532	81.4	6.8	6.0	5.7	80.7	0.6	0.3	78.2	84.1

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

Science: Earth Science / Applying
A_SE4_11 SE71265: Season in City A - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	62.6	6.2	22.9	60.2	6.9	1.0	2.9	60.3	64.7
	2023	1887	60.5	7.0	23.0	60.0	9.1	0.5	0.5	58.6	62.5
Chile	2019	587	61.4	9.7	18.5	55.9	7.0	2.4	6.5	60.2	62.5
	2023	649	64.6	8.4	19.3	62.3	6.4	1.5	2.1	62.5	66.5
Chinese Taipei	2019	544	77.8	4.9	11.0	77.2	6.1	0.2	0.6	78.8	76.9
	2023	446	82.8	2.5	11.4	82.8	3.3	0.0	0.0	84.0	81.5
Czech Republic	2019	672	53.8	5.4	32.0	52.8	8.0	1.5	0.4	52.2	55.1
	2023	947	54.1	6.8	31.8	53.7	7.0	0.4	0.2	54.0	54.3
Denmark	2019	451	67.6	3.4	18.7	64.7	8.9	2.3	1.9	63.4	72.2
	2023	708	62.9	5.4	22.7	62.0	8.4	0.4	0.9	58.8	67.4
England	2019	490	68.8	3.4	20.1	68.3	7.4	0.4	0.4	62.8	75.3
	2023	570	64.8	5.3	22.4	64.2	7.3	0.4	0.6	61.5	68.4
Finland	2019	665	68.4	5.3	18.7	67.5	7.1	1.0	0.5	66.0	70.7
	2023	771	61.7	4.3	25.6	61.5	8.3	0.1	0.2	58.6	65.0
France	2019	596	70.7	6.2	16.8	68.6	5.4	1.6	1.4	71.4	70.1
	2023	663	67.1	8.5	18.3	65.1	5.2	1.5	1.4	60.9	73.6
Georgia	2019	541	56.0	8.5	26.0	51.7	6.1	3.1	4.6	58.4	53.9
	2023	617	51.1	7.8	30.6	48.4	8.0	2.7	2.5	51.4	50.7
Germany	2019	491	61.8	6.9	22.6	59.4	7.2	1.1	2.9	55.2	69.0
	2023	626	63.5	6.1	22.0	62.1	7.5	0.5	1.8	59.1	67.9
Hong Kong SAR	2019	408	73.0	4.6	13.0	72.6	9.2	0.2	0.4	65.1	79.9
	2023	569	72.7	4.2	15.9	72.4	7.2	0.2	0.2	67.5	78.3
Hungary	2019	654	58.4	6.3	28.4	57.5	6.3	0.1	1.4	49.5	66.5
	2023	739	58.5	10.0	23.0	58.1	8.3	0.1	0.6	56.6	60.4
Italy	2019	536	68.3	7.8	19.0	65.1	3.5	2.8	1.9	67.0	69.7
	2023	620	67.9	6.6	19.4	66.6	5.5	0.7	1.2	64.9	70.5
Korea, Rep. of	2019	555	83.1	3.0	9.6	82.8	4.2	0.4	0.0	83.3	83.0
	2023	363	75.6	7.2	11.6	75.5	5.5	0.0	0.1	72.8	79.1
Lithuania	2019	535	52.8	7.2	32.4	52.3	7.3	0.4	0.4	48.9	57.3
	2023	627	55.8	5.4	31.2	55.5	7.4	0.3	0.2	54.5	56.9
Netherlands	2019	478	66.0	3.5	24.2	64.6	5.7	1.1	0.9	67.6	64.3
	2023	502	60.8	6.5	26.9	60.6	5.6	0.1	0.2	54.6	65.7
Norway (5)	2019	566	65.6	4.4	22.2	64.9	7.5	0.5	0.6	68.1	63.0
	2023	728	62.1	4.4	25.3	61.0	7.4	0.7	1.2	59.3	64.9
Portugal	2019	611	70.7	5.8	18.4	68.4	4.1	1.0	2.3	72.2	69.1
	2023	730	67.7	6.6	19.9	66.2	5.1	0.6	1.6	68.8	66.7
Qatar	2019	701	63.8	12.5	13.8	60.1	7.8	0.9	4.9	66.1	61.5
	2023	888	68.4	13.2	12.7	67.2	5.2	0.0	1.7	67.2	69.4
Singapore	2019	850	83.3	2.8	9.4	83.3	4.5	0.0	0.1	80.7	85.9
	2023	599	82.3	3.2	9.5	82.3	5.0	0.0	0.0	81.2	83.3
Slovak Republic	2019	600	59.8	6.0	28.1	59.3	5.8	0.9	0.0	55.1	64.2
	2023	663	60.9	9.0	24.0	60.5	5.9	0.3	0.3	56.6	65.1
Spain	2019	1350	66.9	7.7	18.4	65.4	6.3	1.7	0.4	66.0	67.7
	2023	1410	61.9	8.6	22.8	60.8	6.0	1.1	0.7	59.8	63.9

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

Science: Earth Science / Applying
A_SE4_11 SE71265: Season in City A - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	64.6	3.8	24.8	63.8	6.4	0.1	1.1	66.4	62.5
	2023	696	65.1	2.9	22.6	64.3	9.0	0.4	0.7	65.2	64.9
United Arab Emirates	2019	3670	72.4	9.5	12.2	70.0	5.0	1.1	2.3	71.2	73.7
	2023	5593	73.8	9.4	11.6	71.9	4.5	0.4	2.2	73.2	74.4
United States	2019	1268	67.5	6.0	18.7	65.3	6.8	0.5	2.8	65.2	69.7
	2023	1304	62.4	7.0	21.7	61.2	8.1	0.4	1.5	58.8	66.1

International Avg. (25)	2019	20335	66.6	6.0	20.0	64.9	6.4	1.0	1.7	64.8	68.3
	2023	23915	65.2	6.7	21.0	64.2	6.6	0.5	0.9	62.8	67.5

Abu Dhabi, UAE	2019	1282	68.0	10.5	14.2	65.4	6.0	1.1	2.8	66.9	69.4
	2023	2481	70.5	11.1	12.8	68.6	4.7	0.3	2.4	72.1	69.1
Dubai, UAE	2019	1026	79.5	5.7	10.3	78.0	4.1	0.5	1.3	78.2	80.5
	2023	1290	78.2	5.5	11.8	77.0	4.1	0.3	1.2	73.2	83.0
Ontario, Canada	2019	546	63.7	5.6	23.7	60.7	5.3	1.2	3.5	62.3	65.1
	2023	597	59.7	5.6	24.1	59.2	10.4	0.2	0.6	57.8	61.8
Quebec, Canada	2019	558	62.9	7.3	19.5	61.5	9.5	0.4	1.8	57.7	66.8
	2023	532	60.8	7.7	21.7	60.3	9.4	0.6	0.3	55.2	65.3

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

Science: Earth Science / Knowing

A_SE4_12 SE71223: Resources for Harriet's garden - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Canada	2019	1945	94.6	91.0	3.5	1.5	0.2	0.9	3.0	95.9	93.6
	2023	1887	96.3	95.3	2.2	1.3	0.2	0.3	0.7	96.1	96.4
Chile	2019	587	88.5	81.2	8.5	0.2	1.9	1.1	7.2	90.2	86.9
	2023	649	91.7	89.0	6.3	1.4	0.3	0.3	2.7	93.0	90.5
Chinese Taipei	2019	544	92.6	91.7	3.9	2.6	0.8	0.3	0.8	94.4	91.1
	2023	446	94.3	94.1	2.1	3.1	0.4	0.3	0.0	94.9	93.6
Czech Republic	2019	672	98.0	96.7	1.2	0.8	0.1	0.5	0.8	98.5	97.5
	2023	947	96.7	96.3	2.0	1.0	0.4	0.0	0.4	96.7	96.7
Denmark	2019	451	96.7	93.7	2.4	0.6	0.2	0.5	2.7	96.6	96.7
	2023	708	97.4	96.1	1.8	0.7	0.0	0.5	0.9	97.7	97.1
England	2019	490	93.9	92.3	5.5	0.5	0.0	1.3	0.4	93.4	94.4
	2023	570	94.4	93.9	4.4	0.2	0.9	0.0	0.6	94.7	94.0
Finland	2019	665	95.5	94.3	3.7	0.5	0.3	0.8	0.5	95.4	95.7
	2023	770	95.5	94.7	3.2	0.8	0.4	0.5	0.2	96.5	94.4
France	2019	596	92.6	89.0	5.3	1.9	0.0	1.4	2.4	91.5	93.7
	2023	663	92.5	90.1	4.2	2.4	0.7	0.9	1.7	92.5	92.6
Georgia	2019	541	85.0	80.3	9.6	2.4	2.1	0.1	5.4	83.6	86.3
	2023	617	88.2	83.6	7.6	3.0	0.6	1.8	3.4	87.6	89.0
Germany	2019	491	96.9	93.7	2.4	0.5	0.2	0.1	3.2	96.1	97.8
	2023	626	97.6	95.7	1.9	0.5	0.0	0.2	1.8	97.8	97.3
Hong Kong SAR	2019	408	88.5	88.0	5.8	3.5	2.1	0.2	0.4	88.7	88.4
	2023	569	91.1	90.9	5.0	2.9	0.9	0.0	0.2	92.8	89.2
Hungary	2019	654	91.7	90.2	7.2	0.9	0.1	0.2	1.4	90.6	92.7
	2023	739	91.1	90.2	7.5	1.2	0.1	0.4	0.6	89.1	93.1
Italy	2019	536	96.0	92.5	3.2	0.3	0.4	0.6	3.0	94.6	97.7
	2023	620	97.2	95.8	2.4	0.2	0.1	0.1	1.3	96.5	97.8
Korea, Rep. of	2019	555	59.8	59.6	37.1	2.5	0.6	0.2	0.0	58.0	61.1
	2023	363	68.9	68.8	27.5	2.1	1.5	0.0	0.1	61.6	78.0
Lithuania	2019	535	86.2	85.0	10.5	1.7	1.4	1.0	0.4	86.7	85.7
	2023	627	89.0	88.6	9.5	0.8	0.6	0.1	0.2	90.6	87.6
Netherlands	2019	478	92.6	91.1	5.8	0.8	0.7	0.7	0.9	93.9	91.1
	2023	502	90.4	89.7	6.9	2.6	0.0	0.6	0.2	90.7	89.8
Norway (5)	2019	566	98.2	96.3	0.6	0.9	0.3	1.1	0.8	97.5	98.8
	2023	728	97.7	96.2	0.9	1.2	0.2	0.2	1.3	96.4	98.8
Portugal	2019	611	95.1	91.4	4.1	0.5	0.1	1.2	2.7	96.2	94.0
	2023	730	92.7	90.6	6.3	0.2	0.6	0.2	2.1	92.7	92.7
Qatar	2019	701	80.3	75.9	12.6	3.8	2.2	0.5	5.1	80.8	79.9
	2023	888	83.7	82.0	12.1	2.1	1.8	0.5	1.7	82.1	85.1
Singapore	2019	850	91.4	91.0	6.6	1.0	1.0	0.4	0.1	92.5	90.4
	2023	599	94.1	94.1	4.5	1.1	0.3	0.0	0.0	93.7	94.4
Slovak Republic	2019	600	94.1	93.1	3.0	2.0	0.9	0.9	0.1	93.7	94.5
	2023	663	95.5	95.2	1.7	2.0	0.7	0.0	0.3	94.9	96.1
Spain	2019	1350	93.0	91.6	4.7	1.6	0.6	0.6	0.9	92.4	93.6
	2023	1410	94.5	93.4	3.8	1.4	0.3	0.4	0.7	95.1	93.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Science: Earth Science / Knowing

A_SE4_12 SE71223: Resources for Harriet's garden - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Sweden	2019	571	96.2	94.7	2.2	1.4	0.1	0.5	1.1	96.5	95.8
	2023	696	95.9	94.9	2.2	1.5	0.3	0.3	0.7	96.4	95.4
United Arab Emirates	2019	3673	78.0	74.9	14.6	3.9	2.7	1.3	2.6	79.0	77.0
	2023	5593	80.2	78.1	14.3	3.0	2.0	0.1	2.4	81.0	79.5
United States	2019	1268	94.0	90.8	3.3	1.5	1.0	0.5	2.9	94.3	93.8
	2023	1304	92.3	90.4	5.1	2.0	0.5	0.5	1.5	92.5	92.0

International Avg. (25)	2019	20338	90.8	88.4	6.7	1.5	0.8	0.7	2.0	90.8	90.7
	2023	23914	92.0	90.7	5.8	1.6	0.6	0.3	1.0	91.8	92.2

Abu Dhabi, UAE	2019	1286	65.5	62.7	20.3	7.0	5.7	1.3	3.1	67.0	63.9
	2023	2481	73.7	71.7	17.9	4.4	3.2	0.2	2.6	75.1	72.5
Dubai, UAE	2019	1026	87.2	85.0	11.1	1.0	0.4	1.0	1.5	86.8	87.5
	2023	1290	88.0	86.7	9.9	1.1	0.8	0.0	1.5	88.5	87.8
Ontario, Canada	2019	546	95.5	91.1	3.3	0.9	0.1	1.1	3.5	97.0	94.1
	2023	597	98.4	97.6	1.1	0.3	0.1	0.1	0.7	98.1	98.7
Quebec, Canada	2019	558	93.0	90.7	4.8	1.8	0.3	0.6	1.8	94.1	92.2
	2023	532	92.6	91.5	4.3	2.5	0.4	0.5	0.7	92.0	93.1

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