

Science: Life Science / Knowing

SP04_01 SP71013: 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
Kuwait	2019	629	63.9	11.1	60.6	8.8	14.4	4.2	0.9	60.3	67.2
	2023	1113	64.3	12.1	61.4	10.3	11.7	3.8	0.7	62.2	66.6
Morocco	2019	1115	64.1	8.9	61.7	9.6	16.0	3.7	0.1	60.7	67.7
	2023	1963	65.8	9.6	62.3	9.5	13.3	3.7	1.6	64.8	66.8
South Africa (5)	2019	1702	43.4	15.1	41.9	13.2	26.3	3.3	0.3	44.2	42.5
	2023	2605	40.1	20.8	38.9	11.8	25.5	2.5	0.5	39.2	41.2
International Avg. (3)	2019	3446	57.1	11.7	54.7	10.5	18.9	3.7	0.5	55.1	59.1
	2023	5681	56.7	14.2	54.2	10.5	16.8	3.3	0.9	55.4	58.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP04_02 SP71902: Identify the animals with backbones (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	34.1	60.3	31.3	7.5	0.9	34.6	33.7
	2023	1113	31.7	61.0	28.3	9.5	1.2	31.7	31.8
Morocco	2019	1115	42.0	54.3	39.3	6.3	0.1	41.7	42.3
	2023	1962	44.3	52.1	41.4	4.6	1.9	43.7	45.0
South Africa (5)	2019	1702	34.0	60.4	31.1	7.8	0.7	34.6	33.3
	2023	2616	32.0	56.9	26.8	15.5	0.8	29.3	34.8
International Avg. (3)	2019	3446	36.7	58.3	33.9	7.2	0.6	37.0	36.4
	2023	5691	36.0	56.7	32.2	9.9	1.3	34.9	37.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP04_02B SP71902B: Identify the animals with backbones: fish - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	58.9	51.9	36.2	10.9	0.9	60.6	57.3
	2023	1113	61.4	52.3	32.8	13.6	1.2	64.1	59.0
Morocco	2019	1116	78.1	69.4	19.5	11.1	0.1	77.6	78.6
	2023	1962	77.5	70.4	20.4	7.3	1.9	79.7	75.2
South Africa (5)	2019	1702	67.9	56.4	26.7	16.2	0.7	69.8	66.0
	2023	2616	69.2	53.1	23.6	22.5	0.8	68.4	69.9
International Avg. (3)	2019	3447	68.3	59.2	27.5	12.7	0.6	69.4	67.3
	2023	5691	69.4	58.6	25.6	14.5	1.3	70.7	68.0

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

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Science: Life Science / Knowing

SP04_02C SP71902C: Identify the animals with backbones: crab - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	60.0	35.3	52.8	10.9	0.9	57.9	61.9
	2023	1113	59.6	33.8	49.8	15.2	1.2	58.1	61.7
Morocco	2019	1115	67.2	27.2	55.7	17.1	0.1	67.0	67.4
	2023	1963	71.3	24.9	61.8	11.5	1.9	72.0	70.5
South Africa (5)	2019	1702	61.1	31.2	49.1	19.0	0.7	56.3	66.1
	2023	2616	56.3	32.7	42.2	24.4	0.8	50.9	61.9
International Avg. (3)	2019	3446	62.8	31.2	52.5	15.6	0.6	60.4	65.2
	2023	5692	62.4	30.4	51.2	17.0	1.3	60.3	64.7

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

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Science: Life Science / Knowing

SP04_02D SP71902D: Identify the animals with backbones: butterfly - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	78.8	18.6	69.0	11.5	0.9	78.4	79.2
	2023	1113	80.4	16.2	66.4	16.2	1.2	80.7	80.2
Morocco	2019	1116	81.0	15.8	67.3	16.8	0.1	80.5	81.5
	2023	1963	77.1	20.0	67.0	11.1	1.9	75.0	79.2
South Africa (5)	2019	1702	76.9	18.4	61.4	19.5	0.7	79.1	74.7
	2023	2616	73.8	19.1	54.0	26.1	0.8	77.5	70.0
International Avg. (3)	2019	3447	78.9	17.6	65.9	15.9	0.6	79.3	78.5
	2023	5692	77.1	18.4	62.4	17.8	1.3	77.7	76.5

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP04_02E SP71902E: Identify the animals with backbones: bear - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	87.1	77.5	11.5	10.1	0.9	88.2	86.0
	2023	1113	89.7	77.2	8.8	12.7	1.2	88.5	91.3
Morocco	2019	1116	90.9	81.3	8.1	10.5	0.1	89.1	92.8
	2023	1962	88.7	80.1	10.2	7.8	1.9	88.2	89.3
South Africa (5)	2019	1702	87.2	74.0	10.9	14.4	0.7	88.1	86.3
	2023	2616	82.2	63.1	13.6	22.5	0.8	84.2	80.0
International Avg. (3)	2019	3447	88.4	77.6	10.2	11.7	0.6	88.4	88.3
	2023	5691	86.9	73.5	10.9	14.3	1.3	87.0	86.9

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

Science: Life Science / Knowing
SP04_03 SP71076: Predator with its prey - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	53.4	6.9	22.7	45.9	10.5	12.8	1.2	52.8	54.0
	2023	1113	49.9	6.7	25.2	41.8	10.1	14.1	2.0	49.4	50.8
Morocco	2019	1115	53.2	3.5	21.4	46.9	16.3	11.6	0.4	50.1	56.4
	2023	1961	48.7	6.1	21.7	39.3	13.7	16.8	2.4	44.2	53.5
South Africa (5)	2019	1702	36.5	12.6	19.1	29.7	20.0	17.7	1.0	35.2	37.8
	2023	2565	33.8	15.5	23.2	29.5	18.9	11.4	1.5	31.9	35.7
International Avg. (3)	2019	3446	47.7	7.7	21.0	40.8	15.6	14.0	0.8	46.0	49.4
	2023	5639	44.1	9.4	23.4	36.9	14.2	14.1	2.0	41.8	46.6

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

Science: Life Science / Reasoning

SP04_04 SP71041: Dandelion reproduction strategies (DERIVED) - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	10.4	62.2	11.3	2.2	23.1	1.2	11.7	8.9
	2023	1113	11.3	46.8	9.1	2.0	39.8	2.3	13.2	9.1
Morocco	2019	1116	13.4	50.6	14.1	1.8	33.1	0.4	12.7	14.1
	2023	1963	10.3	52.6	7.5	2.7	34.4	2.8	10.2	10.4
South Africa (5)	2019	1702	4.9	85.2	5.8	1.6	6.0	1.4	5.3	4.6
	2023	2616	6.9	83.7	8.1	2.4	4.1	1.6	8.0	5.9
International Avg. (3)	2019	3449	9.5	66.0	10.4	1.9	20.7	1.0	9.9	9.2
	2023	5692	9.5	61.0	8.3	2.4	26.1	2.2	10.4	8.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning
SP04_04A SP71041A: Advantage of many seeds - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	12.3	64.1	9.0	25.8	1.2	13.8	10.6
	2023	1113	13.9	47.5	7.7	42.5	2.3	14.5	13.3
Morocco	2019	1116	22.5	51.2	14.9	33.6	0.4	21.4	23.8
	2023	1963	12.0	54.4	7.4	35.5	2.8	12.1	11.8
South Africa (5)	2019	1702	6.1	86.9	5.6	6.1	1.4	6.6	5.6
	2023	2616	10.2	84.3	9.6	4.4	1.6	12.4	8.2
International Avg. (3)	2019	3449	13.6	67.4	9.8	21.8	1.0	13.9	13.3
	2023	5692	12.0	62.1	8.2	27.5	2.2	13.0	11.1

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

Science: Life Science / Reasoning

SP04_04B SP71041B: Advantage of light, fluffy seeds - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	9.8	62.2	6.7	29.9	1.2	10.8	8.5
	2023	1113	11.7	41.1	5.5	51.1	2.3	15.3	7.1
Morocco	2019	1116	5.1	53.6	2.9	43.1	0.4	4.7	5.7
	2023	1963	11.3	43.1	5.5	48.6	2.8	10.7	12.1
South Africa (5)	2019	1702	3.8	86.5	3.5	8.6	1.4	4.0	3.7
	2023	2616	3.7	89.3	3.4	5.7	1.6	3.7	3.6
International Avg. (3)	2019	3449	6.3	67.4	4.4	27.2	1.0	6.5	6.0
	2023	5692	8.9	57.9	4.8	35.1	2.2	9.9	7.6

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying
SP04_05 SP71046: 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
Kuwait	2019	629	17.8	75.1	16.3	6.1	2.5	17.3	18.4
	2023	1113	16.1	76.4	14.6	6.1	2.9	16.7	15.4
Morocco	2019	1116	16.8	80.4	16.3	2.7	0.6	17.6	16.1
	2023	1962	15.9	77.5	14.6	4.1	3.8	17.1	14.6
South Africa (5)	2019	1702	7.3	88.7	7.0	2.0	2.3	7.8	6.9
	2023	2616	9.7	79.7	8.6	9.4	2.3	10.2	9.3
International Avg. (3)	2019	3447	14.0	81.4	13.2	3.6	1.8	14.2	13.8
	2023	5691	13.9	77.9	12.6	6.5	3.0	14.7	13.1

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

Science: Life Science / Applying

SP04_05A SP71046A: Characteristics of the rabbit's mate - male - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	68.7	60.9	27.7	8.8	2.5	68.9	68.6
	2023	1113	79.9	69.2	17.5	10.5	2.9	79.7	79.9
Morocco	2019	1116	84.1	75.9	14.3	9.1	0.6	85.6	82.5
	2023	1963	86.0	75.5	12.3	8.5	3.8	87.2	84.8
South Africa (5)	2019	1702	64.1	56.0	31.4	10.3	2.3	60.1	68.0
	2023	2616	69.3	57.0	25.3	15.3	2.3	67.2	71.4
International Avg. (3)	2019	3448	72.3	64.3	24.5	9.4	1.8	71.5	73.0
	2023	5692	78.4	67.2	18.3	11.4	3.0	78.0	78.7

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

Science: Life Science / Applying

SP04_05B SP71046B: Characteristics of the rabbit's mate - color - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	72.6	23.7	62.7	11.1	2.5	73.3	71.8
	2023	1113	69.7	25.3	58.1	13.8	2.9	72.7	66.7
Morocco	2019	1116	68.2	27.4	58.8	13.2	0.6	70.4	65.9
	2023	1962	70.0	25.5	59.6	11.2	3.8	72.8	67.2
South Africa (5)	2019	1702	55.6	38.4	48.2	11.1	2.3	53.4	57.9
	2023	2616	58.7	33.3	47.4	17.0	2.3	58.3	59.2
International Avg. (3)	2019	3449	65.5	29.8	56.6	11.8	1.8	65.7	65.2
	2023	5691	66.2	28.0	55.0	14.0	3.0	67.9	64.4

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

Science: Life Science / Applying

SP04_05C SP71046C: Characteristics of the rabbit's mate - adult - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	59.8	51.3	34.5	11.8	2.5	56.4	63.1
	2023	1113	61.3	50.4	31.8	15.0	2.9	63.4	59.0
Morocco	2019	1116	56.7	48.0	36.6	14.8	0.6	56.3	57.1
	2023	1962	59.6	49.6	33.7	12.9	3.8	60.1	59.0
South Africa (5)	2019	1702	57.0	48.4	36.4	12.9	2.3	58.5	55.7
	2023	2616	61.2	48.6	30.8	18.3	2.3	61.2	61.2
International Avg. (3)	2019	3449	57.9	49.2	35.8	13.2	1.8	57.1	58.6
	2023	5691	60.7	49.5	32.1	15.4	3.0	61.6	59.7

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

Science: Life Science / Applying

SP04_05D SP71046D: Characteristics of the rabbit's mate - tall ears - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	51.5	41.2	43.7	12.6	2.5	50.8	52.2
	2023	1113	46.0	44.3	37.8	15.1	2.9	44.7	47.5
Morocco	2019	1116	45.7	44.9	37.8	16.7	0.6	46.7	44.7
	2023	1962	46.3	44.8	38.6	12.8	3.8	46.5	46.1
South Africa (5)	2019	1702	36.7	53.7	31.2	12.8	2.3	39.1	34.4
	2023	2616	38.7	47.8	30.2	19.7	2.3	37.4	40.2
International Avg. (3)	2019	3449	44.6	46.6	37.6	14.0	1.8	45.5	43.7
	2023	5691	43.7	45.6	35.5	15.9	3.0	42.9	44.6

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

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Science: Life Science / Applying

SP04_05E SP71046E: Characteristics of the rabbit's mate - age - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	630	70.6	25.2	60.4	11.9	2.5	71.7	69.5
	2023	1113	73.8	21.4	60.5	15.2	2.9	76.0	71.3
Morocco	2019	1116	77.9	18.4	64.9	16.2	0.6	82.8	72.8
	2023	1962	75.4	20.8	63.6	11.9	3.8	77.2	73.5
South Africa (5)	2019	1702	55.8	37.2	47.0	13.4	2.3	52.2	59.6
	2023	2616	57.9	33.2	45.6	18.9	2.3	59.3	56.2
International Avg. (3)	2019	3448	68.1	26.9	57.4	13.8	1.8	68.9	67.3
	2023	5691	69.0	25.1	56.6	15.3	3.0	70.8	67.0

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

Science: Life Science / Knowing

SP04_06 SP71095: Germs from George's cough - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	21.3	61.8	16.7	18.4	3.0	21.5	21.1
	2023	1113	25.3	48.4	16.4	31.7	3.5	24.2	26.7
Morocco	2019	1116	39.4	50.4	32.8	15.8	0.9	42.0	36.8
	2023	1963	40.5	44.4	30.2	20.7	4.7	42.1	38.6
South Africa (5)	2019	1702	22.0	71.5	20.2	5.1	3.2	25.6	18.3
	2023	2615	21.9	72.5	20.3	3.7	3.5	25.6	18.4
International Avg. (3)	2019	3449	27.6	61.2	23.2	13.1	2.4	29.7	25.4
	2023	5691	29.2	55.1	22.3	18.7	3.9	30.6	27.9

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying
SP04_07 SP71129: 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
Kuwait	2019	631	66.9	61.8	6.4	14.3	9.8	4.7	3.0	68.1	65.8
	2023	1113	67.6	60.9	5.6	12.0	11.5	5.4	4.5	67.9	67.5
Morocco	2019	1115	79.9	75.7	6.4	8.2	4.5	4.2	1.1	73.5	86.2
	2023	1963	78.3	71.1	6.7	8.9	4.1	3.8	5.4	74.5	82.3
South Africa (5)	2019	1702	46.0	40.9	7.3	33.8	6.9	7.8	3.4	39.6	52.5
	2023	2594	46.7	42.3	9.7	30.4	8.2	5.9	3.3	45.2	48.2
International Avg. (3)	2019	3448	64.3	59.5	6.7	18.8	7.1	5.5	2.5	60.4	68.2
	2023	5670	64.2	58.1	7.3	17.1	8.0	5.1	4.4	62.5	66.0

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

Science: Physical Science / Applying
SP04_08 SP71102: Movement of Train Car A - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	16.0	79.7	15.1	2.2	3.0	17.1	14.9
	2023	1113	9.7	81.8	8.8	4.7	4.7	9.1	10.3
Morocco	2019	1116	13.2	83.9	12.8	2.3	1.1	11.8	14.6
	2023	1963	11.2	81.1	10.2	3.1	5.6	12.7	9.6
South Africa (5)	2019	1702	7.3	87.0	6.8	1.9	4.3	5.5	9.1
	2023	2615	6.2	86.8	5.7	3.2	4.3	6.3	6.2
International Avg. (3)	2019	3449	12.2	83.5	11.6	2.1	2.8	11.5	12.9
	2023	5691	9.0	83.2	8.2	3.7	4.9	9.4	8.7

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

Science: Physical Science / Reasoning

SP04_09 SP71124: 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
Kuwait	2019	631	36.8	27.4	32.8	19.3	9.6	7.8	3.1	37.0	36.6
	2023	1113	31.6	26.3	27.5	19.2	14.2	7.0	5.8	32.2	30.7
Morocco	2019	1115	30.0	20.9	27.7	27.1	16.7	6.3	1.3	31.4	28.5
	2023	1963	30.5	23.1	25.8	20.1	15.5	9.1	6.3	29.4	31.7
South Africa (5)	2019	1702	29.4	23.8	25.4	24.8	12.5	9.0	4.4	29.3	29.4
	2023	2592	33.7	23.9	30.3	22.9	12.8	5.6	4.5	33.2	34.3
International Avg. (3)	2019	3448	32.0	24.0	28.6	23.7	12.9	7.7	2.9	32.6	31.5
	2023	5668	31.9	24.5	27.9	20.7	14.2	7.2	5.6	31.6	32.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying
SP04_10 SP71112: 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
Kuwait	2019	631	62.5	15.4	8.0	11.4	58.2	2.5	4.5	65.0	60.3
	2023	1110	59.8	15.5	8.7	11.8	53.6	3.8	6.6	62.3	57.1
Morocco	2019	1116	61.8	12.8	8.9	14.8	59.0	2.3	2.2	62.0	61.5
	2023	1963	62.8	11.4	11.0	10.5	55.5	4.5	7.1	62.5	63.0
South Africa (5)	2019	1702	64.4	14.8	7.9	10.3	59.5	1.4	6.1	70.7	58.1
	2023	2601	56.5	19.0	9.0	12.3	52.4	1.8	5.5	61.9	51.4
International Avg. (3)	2019	3449	62.9	14.3	8.3	12.2	58.9	2.1	4.3	65.9	60.0
	2023	5674	59.7	15.3	9.6	11.5	53.8	3.3	6.4	62.2	57.2

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

Science: Earth Science / Applying
SP04_11 SP71265: Season in City A - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	53.4	22.6	14.1	49.6	6.7	2.4	4.6	58.6	48.5
	2023	1110	55.4	20.9	12.5	49.1	6.2	3.8	7.5	54.9	55.8
Morocco	2019	1115	55.6	15.5	18.5	52.4	7.8	3.5	2.2	51.4	59.8
	2023	1963	52.1	17.7	16.1	46.3	8.7	3.2	7.9	54.0	50.3
South Africa (5)	2019	1702	55.8	14.7	17.8	51.4	8.2	1.7	6.2	57.6	54.0
	2023	2598	53.3	16.1	19.9	49.4	7.2	1.4	6.1	54.9	52.0
International Avg. (3)	2019	3448	54.9	17.6	16.8	51.2	7.6	2.6	4.3	55.9	54.1
	2023	5671	53.6	18.2	16.2	48.3	7.3	2.8	7.2	54.6	52.7

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

Science: Earth Science / Knowing

SP04_12 SP71223: Resources for Harriet's garden - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	631	67.6	22.5	62.3	4.9	2.6	2.7	5.1	65.8	69.2
	2023	1111	68.0	21.8	60.5	4.5	2.3	2.9	8.0	68.2	67.7
Morocco	2019	1116	71.4	16.7	66.0	6.6	3.2	4.8	2.8	74.2	68.5
	2023	1963	72.8	15.3	63.9	5.7	3.0	4.1	8.1	76.0	69.4
South Africa (5)	2019	1702	68.5	21.8	61.6	4.9	1.7	3.5	6.5	70.9	66.1
	2023	2595	61.1	24.1	56.2	8.0	3.7	1.8	6.2	65.3	57.0
International Avg. (3)	2019	3449	69.2	20.3	63.3	5.4	2.5	3.7	4.8	70.3	67.9
	2023	5669	67.3	20.4	60.2	6.0	3.0	2.9	7.4	69.8	64.7

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

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Science: Life Science / Applying
SP08_02 SP71033: 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
Kuwait	2019	640	38.9	29.3	12.2	18.0	37.9	1.8	0.7	37.8	40.0
	2023	1100	42.7	25.9	10.0	18.7	40.7	2.9	1.8	42.3	43.3
Morocco	2019	1098	49.3	23.0	12.2	13.8	47.7	2.8	0.4	48.4	50.2
	2023	1914	52.6	24.4	11.3	10.4	51.1	2.3	0.6	48.6	56.8
South Africa (5)	2019	1702	45.5	20.3	12.9	19.3	43.9	3.0	0.6	42.8	48.2
	2023	2587	46.1	19.8	13.3	19.4	44.9	2.2	0.4	46.4	45.9
International Avg. (3)	2019	3440	44.6	24.2	12.5	17.0	43.2	2.5	0.6	43.0	46.1
	2023	5601	47.1	23.3	11.5	16.2	45.5	2.5	0.9	45.7	48.6

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

Science: Life Science / Applying
SP08_03 SP71065: Complete the food chain - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	640	53.7	43.4	50.2	5.7	0.7	52.6	54.7
	2023	1100	49.1	45.8	44.2	7.8	2.2	46.8	51.5
Morocco	2019	1098	50.1	44.0	44.3	11.2	0.5	44.3	55.6
	2023	1950	54.5	41.2	49.4	8.8	0.6	50.0	59.1
South Africa (5)	2019	1702	37.7	59.5	36.0	3.8	0.7	34.5	40.9
	2023	2592	34.9	62.8	33.6	3.2	0.4	33.9	35.8
International Avg. (3)	2019	3440	47.2	49.0	43.5	6.9	0.6	43.8	50.4
	2023	5642	46.2	49.9	42.4	6.6	1.1	43.6	48.8

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

Science: Life Science / Applying
SP08_04 SP71025: 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
Kuwait	2019	640	40.9	39.3	15.6	23.6	17.6	3.1	0.7	42.4	39.4
	2023	1100	47.1	44.2	15.3	22.7	11.7	3.9	2.2	49.7	44.5
Morocco	2019	1098	29.9	28.8	21.9	26.9	18.8	2.7	0.9	31.6	28.1
	2023	1912	36.7	35.7	13.4	29.8	18.4	2.0	0.7	37.1	36.2
South Africa (5)	2019	1702	42.2	40.9	13.1	29.7	13.2	2.4	0.7	46.9	37.6
	2023	2588	36.3	35.6	16.4	30.6	15.5	1.3	0.5	38.6	34.0
International Avg. (3)	2019	3440	37.6	36.3	16.9	26.8	16.6	2.7	0.8	40.3	35.0
	2023	5600	40.0	38.5	15.1	27.7	15.2	2.4	1.1	41.8	38.2

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

Science: Life Science / Reasoning

SP08_05 SP71081: 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
Kuwait	2019	640	24.0	42.5	14.4	23.5	17.4	1.2	0.9	21.8	26.1
	2023	1104	20.5	39.8	18.4	19.2	16.3	3.8	2.5	18.8	22.2
Morocco	2019	1097	19.8	44.5	19.8	18.6	10.8	5.3	1.1	18.4	21.1
	2023	1903	18.4	50.1	15.0	17.5	12.3	4.3	0.8	16.8	20.1
South Africa (5)	2019	1702	24.7	40.1	15.7	23.9	17.0	2.1	1.1	22.6	26.7
	2023	2590	23.4	39.9	17.0	22.8	17.7	2.0	0.6	24.4	22.4
International Avg. (3)	2019	3439	22.9	42.4	16.6	22.0	15.1	2.8	1.0	20.9	24.7
	2023	5597	20.8	43.2	16.8	19.8	15.4	3.4	1.3	20.0	21.6

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

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Science: Life Science / Knowing

SP08_06 SP71056: 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
Kuwait	2019	640	8.0	69.3	6.0	23.6	1.0	6.7	9.4
	2023	1104	12.4	53.4	7.6	36.6	2.5	10.9	14.3
Morocco	2019	1098	7.8	57.8	4.9	36.2	1.2	8.7	6.8
	2023	1950	6.0	57.7	3.7	37.6	1.0	4.7	7.5
South Africa (5)	2019	1702	7.8	84.3	7.1	7.2	1.3	7.8	7.8
	2023	2592	9.1	84.5	8.4	6.4	0.6	11.0	7.1
International Avg. (3)	2019	3440	7.8	70.5	6.0	22.4	1.2	7.8	8.0
	2023	5646	9.2	65.2	6.6	26.9	1.4	8.9	9.6

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

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Science: Physical Science / Applying

SP08_07 SP71145: 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
Kuwait	2019	640	50.6	48.5	16.5	3.8	27.1	2.8	1.3	53.9	47.4
	2023	1104	49.6	46.4	17.2	3.0	27.0	3.4	2.9	52.0	46.8
Morocco	2019	1098	29.2	27.8	14.8	3.3	49.3	2.9	1.9	25.5	32.9
	2023	1919	37.5	36.5	13.0	1.5	46.1	1.6	1.3	38.0	37.1
South Africa (5)	2019	1702	38.4	36.4	19.7	4.1	34.7	3.0	2.1	36.5	40.3
	2023	2590	36.2	35.1	18.5	5.1	38.1	2.5	0.7	38.9	33.8
International Avg. (3)	2019	3440	39.4	37.6	17.0	3.7	37.0	2.9	1.8	38.6	40.2
	2023	5613	41.1	39.3	16.3	3.2	37.1	2.5	1.6	43.0	39.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning
SP08_08 SP71104: Magnets in plastic and iron cups - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	640	47.3	45.6	40.9	12.2	1.3	48.0	46.6
	2023	1104	58.2	33.5	46.6	16.8	3.1	60.8	55.1
Morocco	2019	1098	51.1	38.4	40.1	19.3	2.1	50.1	51.9
	2023	1950	57.2	36.9	49.4	12.4	1.3	58.3	56.1
South Africa (5)	2019	1702	30.9	63.1	28.2	6.0	2.6	30.8	31.0
	2023	2593	27.9	68.4	26.5	4.4	0.8	30.7	25.2
International Avg. (3)	2019	3440	43.1	49.1	36.4	12.5	2.0	43.0	43.2
	2023	5647	47.8	46.3	40.8	11.2	1.7	49.9	45.5

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

Science: Physical Science / Knowing

SP08_09 SP71144: 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
Kuwait	2019	638	34.7	23.8	16.7	21.9	33.2	3.0	1.4	35.9	33.6
	2023	1104	35.3	22.1	16.7	20.2	32.2	5.1	3.7	33.1	37.5
Morocco	2019	1098	36.3	21.8	12.7	26.3	34.6	1.9	2.6	37.4	35.2
	2023	1914	39.6	20.1	15.1	22.5	37.8	2.2	2.2	39.5	39.6
South Africa (5)	2019	1702	37.1	24.2	15.1	20.2	35.1	1.9	3.5	40.3	34.1
	2023	2585	37.3	25.6	17.2	18.2	36.2	1.9	1.0	42.4	32.2
International Avg. (3)	2019	3438	36.1	23.3	14.8	22.8	34.3	2.3	2.5	37.9	34.3
	2023	5603	37.4	22.6	16.3	20.3	35.4	3.1	2.3	38.3	36.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP08_10 SP71150: 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
Kuwait	2019	640	64.4	26.5	47.9	23.7	1.9	65.8	62.8
	2023	1104	68.0	19.0	40.4	36.5	4.1	70.0	65.5
Morocco	2019	1098	45.6	39.4	33.0	24.8	2.7	41.2	49.7
	2023	1950	65.1	25.2	47.0	25.1	2.7	64.6	65.7
South Africa (5)	2019	1702	11.9	76.1	10.3	9.7	3.8	10.2	13.7
	2023	2593	13.6	79.5	12.5	6.7	1.3	13.0	14.4
International Avg. (3)	2019	3440	40.6	47.4	30.4	19.4	2.8	39.1	42.0
	2023	5647	48.9	41.2	33.3	22.7	2.7	49.2	48.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP08_11 SP71201: 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
Kuwait	2019	638	48.0	23.8	46.3	11.3	15.0	1.8	1.8	47.7	48.3
	2023	1104	47.7	21.4	43.8	9.4	17.2	3.9	4.3	44.3	51.5
Morocco	2019	1098	38.8	19.2	37.1	17.3	22.1	1.3	2.9	37.9	39.6
	2023	1911	40.2	17.7	38.0	21.7	17.1	2.7	2.8	34.7	45.9
South Africa (5)	2019	1702	39.3	36.4	37.0	11.7	9.1	1.8	4.0	38.8	39.8
	2023	2581	38.4	36.3	37.1	15.1	8.2	2.2	1.2	39.1	37.8
International Avg. (3)	2019	3438	42.0	26.5	40.1	13.4	15.4	1.6	2.9	41.5	42.6
	2023	5596	42.1	25.1	39.6	15.4	14.2	2.9	2.8	39.4	45.0

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying
SP08_12 SP71237: Identify the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	640	24.2	70.4	22.5	5.1	2.0	26.2	22.4
	2023	1103	17.1	75.4	15.5	4.7	4.4	17.9	16.3
Morocco	2019	1098	24.4	70.4	22.7	3.7	3.1	27.3	21.7
	2023	1949	23.5	71.6	21.9	3.0	3.4	27.4	19.5
South Africa (5)	2019	1702	14.8	79.7	13.9	2.2	4.2	16.2	13.5
	2023	2592	16.8	80.0	16.1	2.3	1.6	18.1	15.6
International Avg. (3)	2019	3440	21.2	73.5	19.7	3.7	3.1	23.2	19.2
	2023	5644	19.1	75.7	17.9	3.4	3.1	21.2	17.1

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

Science: Earth Science / Reasoning

SP08_13 SP71260: 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
Kuwait	2019	638	22.0	28.5	19.3	20.9	26.5	2.2	2.6	22.0	22.0
	2023	1103	20.5	23.1	24.2	19.0	26.4	1.9	5.4	23.1	17.9
Morocco	2019	1098	22.8	26.8	14.7	21.5	31.3	2.2	3.5	21.3	24.2
	2023	1905	19.4	27.1	18.1	18.4	31.2	1.6	3.7	15.5	23.4
South Africa (5)	2019	1702	26.0	27.1	16.8	24.1	24.9	2.2	4.9	25.2	26.8
	2023	2583	23.8	26.5	16.8	22.9	29.8	2.2	1.8	23.1	24.4
International Avg. (3)	2019	3438	23.6	27.5	16.9	22.2	27.6	2.2	3.6	22.8	24.3
	2023	5591	21.2	25.6	19.7	20.1	29.1	1.9	3.6	20.6	21.9

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing
SP09_01 SP61135: 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
Kuwait	2019	627	52.8	11.5	23.1	50.4	10.5	3.8	0.7	53.9	51.7
	2023	1099	49.2	13.4	21.0	45.4	12.4	7.2	0.6	49.0	49.5
Morocco	2019	1105	49.9	7.9	27.0	47.2	12.6	5.0	0.5	48.8	51.1
	2023	1895	47.1	8.4	24.7	45.1	17.7	4.0	0.1	45.7	48.3
South Africa (5)	2019	1700	41.8	9.3	26.0	39.5	19.6	4.8	0.7	39.9	43.8
	2023	2567	43.7	9.5	25.8	42.4	19.3	2.9	0.2	46.5	41.0
International Avg. (3)	2019	3432	48.1	9.6	25.4	45.7	14.2	4.5	0.6	47.5	48.9
	2023	5561	46.7	10.4	23.8	44.3	16.5	4.7	0.3	47.1	46.3

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing
SP09_02 SP61069: Plants make their own food - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	59.1	36.9	53.2	9.0	0.9	64.3	54.0
	2023	1099	57.7	34.0	46.5	18.5	1.0	56.2	59.3
Morocco	2019	1106	39.5	48.5	31.6	19.3	0.6	39.2	39.8
	2023	1954	51.5	40.4	42.8	15.8	1.0	52.4	50.6
South Africa (5)	2019	1700	45.1	51.4	42.3	5.5	0.8	49.9	40.4
	2023	2572	33.8	64.2	32.8	2.8	0.2	37.0	30.6
International Avg. (3)	2019	3435	47.9	45.6	42.4	11.3	0.8	51.1	44.7
	2023	5625	47.7	46.2	40.7	12.4	0.8	48.5	46.8

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

Science: Life Science / Applying
SP09_03 SP61134: 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
Kuwait	2019	627	32.9	17.8	17.8	26.9	30.7	5.6	1.2	34.5	31.5
	2023	1099	29.0	18.0	18.7	26.2	25.7	10.2	1.1	27.6	30.4
Morocco	2019	1105	28.8	11.8	23.9	29.8	26.5	7.5	0.6	30.4	27.1
	2023	1875	26.3	15.4	21.0	33.9	25.1	4.3	0.3	28.0	24.8
South Africa (5)	2019	1700	31.8	16.3	22.5	24.5	29.6	6.3	0.8	32.6	31.2
	2023	2565	33.5	17.0	23.6	23.3	32.2	3.7	0.2	37.1	29.7
International Avg. (3)	2019	3432	31.2	15.3	21.4	27.1	28.9	6.4	0.9	32.5	29.9
	2023	5539	29.6	16.8	21.1	27.8	27.7	6.1	0.5	30.9	28.3

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

Science: Life Science / Applying
SP09_04 SP61140: Grasshopper and butterfly cycles - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	44.5	16.1	41.9	21.5	14.7	4.7	1.2	44.3	44.8
	2023	1099	41.2	21.3	37.1	18.1	13.4	8.6	1.4	40.9	41.7
Morocco	2019	1106	42.7	15.2	39.1	22.9	14.5	7.4	0.9	43.1	42.2
	2023	1880	40.4	16.0	38.6	26.0	14.9	4.1	0.3	41.0	39.9
South Africa (5)	2019	1700	39.5	20.1	37.3	23.5	13.6	4.4	1.1	42.4	36.7
	2023	2569	39.3	21.1	37.9	21.5	15.9	3.0	0.5	38.8	39.7
International Avg. (3)	2019	3434	42.2	17.1	39.4	22.6	14.2	5.5	1.1	43.3	41.2
	2023	5548	40.3	19.5	37.9	21.9	14.8	5.2	0.8	40.2	40.5

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

Science: Life Science / Reasoning
SP09_05 SP61019: Hawks and mice in a field - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	12.0	84.3	11.5	2.9	1.3	16.7	7.8
	2023	1099	10.9	82.8	10.1	5.0	2.1	11.0	10.7
Morocco	2019	1106	16.1	80.7	15.4	2.5	1.4	18.1	13.8
	2023	1954	15.2	80.2	14.3	3.6	1.9	16.7	13.9
South Africa (5)	2019	1700	6.8	88.9	6.5	2.9	1.7	7.3	6.4
	2023	2571	10.8	86.1	10.4	2.8	0.6	12.1	9.6
International Avg. (3)	2019	3435	11.6	84.6	11.2	2.8	1.5	14.0	9.3
	2023	5624	12.3	83.0	11.6	3.8	1.5	13.2	11.4

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

Science: Life Science / Knowing
SP09_06 SP61022: Laura has the flu - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	49.1	46.4	16.7	10.4	20.9	4.2	1.4	48.0	50.2
	2023	1099	42.2	38.1	16.0	14.1	22.1	7.5	2.2	40.1	44.1
Morocco	2019	1105	56.0	51.9	14.9	11.6	14.3	5.6	1.7	57.6	54.2
	2023	1851	51.2	48.6	15.5	10.7	20.0	4.7	0.5	54.8	48.1
South Africa (5)	2019	1700	36.3	34.1	21.2	15.2	23.4	4.1	2.0	39.9	32.7
	2023	2569	33.4	32.1	24.1	16.9	23.0	3.2	0.6	34.3	32.5
International Avg. (3)	2019	3433	47.2	44.2	17.6	12.4	19.6	4.6	1.7	48.5	45.7
	2023	5519	42.3	39.6	18.5	13.9	21.7	5.1	1.1	43.1	41.6

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

Science: Physical Science / Reasoning

SP09_07 SP61036: Melting butter at end of spoon - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	11.3	85.3	10.8	2.3	1.6	15.0	7.8
	2023	1099	6.8	87.3	6.4	3.8	2.5	7.4	6.3
Morocco	2019	1106	17.0	78.6	16.1	2.9	2.4	17.3	16.7
	2023	1955	23.5	71.6	22.0	3.5	2.9	24.6	22.6
South Africa (5)	2019	1700	12.7	83.2	12.1	2.6	2.1	13.1	12.3
	2023	2573	15.1	81.7	14.5	3.0	0.7	17.2	12.9
International Avg. (3)	2019	3435	13.6	82.4	13.0	2.6	2.0	15.1	12.3
	2023	5627	15.1	80.2	14.3	3.5	2.0	16.4	13.9

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

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Science: Physical Science / Applying
SP09_08 SP61160: State of matter of items - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	44.0	52.8	41.5	4.1	1.6	50.7	37.6
	2023	1099	41.0	52.2	36.2	9.0	2.7	40.9	41.0
Morocco	2019	1106	57.3	39.0	52.4	5.7	2.9	60.1	54.3
	2023	1955	56.0	39.0	49.8	7.2	4.0	58.2	54.2
South Africa (5)	2019	1700	31.4	64.2	29.4	3.7	2.7	35.5	27.4
	2023	2574	32.8	63.5	31.0	4.2	1.3	38.1	27.5
International Avg. (3)	2019	3435	44.2	52.0	41.1	4.5	2.4	48.7	39.8
	2023	5628	43.3	51.6	39.0	6.8	2.6	45.7	40.9

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

Science: Physical Science / Applying
SP09_09 SP61159: Which wagon requires more force - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	36.9	60.8	35.5	2.1	1.7	41.2	32.8
	2023	1099	24.5	69.7	22.6	3.9	3.9	25.1	23.9
Morocco	2019	1106	35.6	60.3	33.3	2.4	3.9	39.2	31.6
	2023	1955	36.1	58.9	33.3	2.4	5.3	39.1	33.6
South Africa (5)	2019	1700	31.2	64.0	28.9	3.9	3.2	35.0	27.4
	2023	2572	25.7	69.7	24.1	4.4	1.8	28.4	22.9
International Avg. (3)	2019	3435	34.5	61.7	32.6	2.8	2.9	38.4	30.6
	2023	5626	28.8	66.1	26.6	3.6	3.7	30.9	26.8

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

Science: Physical Science / Knowing
SP09_10 SP61091: Energy in a closed circuit - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	34.8	45.4	20.2	19.5	12.7	2.1	38.7	30.7
	2023	1099	35.6	36.2	17.3	16.2	25.7	4.6	37.8	33.6
Morocco	2019	1106	21.6	51.9	12.6	9.7	20.7	5.1	25.7	17.2
	2023	1955	18.9	52.1	15.4	6.2	20.1	6.2	19.5	18.4
South Africa (5)	2019	1700	17.7	68.7	11.6	10.2	5.6	3.9	20.2	15.3
	2023	2570	20.1	66.2	15.2	11.0	5.1	2.5	22.7	17.6
International Avg. (3)	2019	3435	24.7	55.3	14.8	13.1	13.0	3.7	28.2	21.0
	2023	5624	24.9	51.5	15.9	11.1	17.0	4.5	26.6	23.2

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

Science: Earth Science / Knowing
SP09_11 SP61118: 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
Kuwait	2019	629	39.3	25.8	35.8	11.5	18.1	5.8	3.0	39.3	39.2
	2023	1099	35.9	25.5	30.4	12.4	16.3	9.3	6.2	34.9	36.8
Morocco	2019	1105	35.8	22.0	31.0	16.0	17.5	7.4	6.1	35.4	36.4
	2023	1756	41.8	19.1	39.1	16.7	18.6	5.5	1.0	41.2	42.3
South Africa (5)	2019	1700	41.0	18.7	35.9	12.7	20.2	8.1	4.4	37.2	44.7
	2023	2547	35.3	24.6	31.7	14.7	18.8	7.3	2.9	33.9	36.6
International Avg. (3)	2019	3434	38.7	22.2	34.2	13.4	18.6	7.1	4.5	37.3	40.1
	2023	5402	37.7	23.0	33.7	14.6	17.9	7.4	3.4	36.7	38.6

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

Science: Earth Science / Reasoning

SP09_12 SP61097: Natural desert rock formation - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	42.7	22.2	39.6	19.8	11.1	3.8	3.6	43.0	42.4
	2023	1099	34.5	23.0	30.9	20.9	14.7	4.1	6.4	34.4	34.6
Morocco	2019	1105	39.1	22.5	34.3	18.7	12.3	5.7	6.5	42.8	35.1
	2023	1759	36.2	25.4	34.8	24.3	11.7	2.4	1.3	37.3	35.2
South Africa (5)	2019	1700	35.9	25.4	32.4	19.6	12.8	4.2	5.5	39.3	32.4
	2023	2557	37.5	27.3	34.9	17.6	13.3	2.9	3.9	38.8	36.3
International Avg. (3)	2019	3434	39.2	23.4	35.4	19.4	12.1	4.6	5.2	41.7	36.6
	2023	5415	36.1	25.3	33.6	20.9	13.2	3.2	3.9	36.8	35.4

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

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Science: Life Science / Knowing

SP10_01 SP71009: 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
Kuwait	2019	625	50.5	20.8	48.0	21.8	9.2	0.2	51.5	49.6
	2023	1109	45.8	24.3	52.1	16.5	6.5	0.6	46.2	45.4
Morocco	2019	1104	33.1	35.1	56.7	3.0	5.1	0.2	33.2	32.9
	2023	1961	33.5	34.4	57.4	3.1	4.4	0.8	33.9	33.2
South Africa (5)	2019	1693	21.7	56.0	27.8	5.4	10.1	0.6	23.7	19.8
	2023	2608	26.6	46.4	28.0	8.0	17.5	0.2	29.8	23.6
International Avg. (3)	2019	3422	35.1	37.3	44.2	10.1	8.1	0.3	36.1	34.1
	2023	5678	35.3	35.0	45.8	9.2	9.5	0.5	36.6	34.1

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

Science: Life Science / Knowing

SP10_01A SP71009A: Bird, insect, mammal, or reptile - snake - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	83.3	2.8	6.2	5.5	72.3	13.0	0.2	84.3	82.4
	2023	1109	78.6	2.7	8.9	7.7	70.9	9.2	0.6	81.2	76.1
Morocco	2019	1105	88.9	1.9	2.9	5.1	79.1	10.8	0.2	89.8	87.8
	2023	1961	84.1	1.9	4.9	7.5	75.5	9.5	0.8	83.8	84.4
South Africa (5)	2019	1693	48.0	6.3	16.5	20.3	39.8	16.6	0.6	51.1	44.7
	2023	2608	48.4	8.1	12.5	17.6	35.8	25.8	0.2	52.1	44.7
International Avg. (3)	2019	3425	73.4	3.7	8.5	10.3	63.7	13.4	0.3	75.0	71.6
	2023	5678	70.4	4.2	8.8	10.9	60.8	14.8	0.5	72.4	68.4

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

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Science: Life Science / Knowing
SP10_01B SP71009B: Bird, insect, mammal, or reptile - bat - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	37.5	48.5	3.9	32.3	1.4	13.6	0.2	36.9	38.2
	2023	1109	28.1	58.3	3.9	25.3	2.6	9.3	0.6	27.7	28.4
Morocco	2019	1107	7.8	76.8	1.5	6.7	1.2	13.6	0.2	6.6	9.0
	2023	1961	9.7	77.2	2.4	8.7	1.2	9.8	0.8	9.4	10.0
South Africa (5)	2019	1693	19.3	48.7	10.1	16.0	8.0	16.7	0.6	18.8	19.8
	2023	2608	25.5	39.4	8.8	19.0	7.2	25.4	0.2	27.2	23.8
International Avg. (3)	2019	3427	21.5	58.0	5.2	18.3	3.5	14.6	0.3	20.8	22.3
	2023	5678	21.1	58.3	5.1	17.7	3.7	14.8	0.5	21.4	20.7

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

Science: Life Science / Knowing

SP10_01C SP71009C: Bird, insect, mammal, or reptile - mosquito - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	626	88.7	3.7	77.9	3.4	2.8	11.9	0.2	88.4	89.0
	2023	1109	85.5	5.1	77.2	5.1	2.9	9.2	0.6	86.1	84.9
Morocco	2019	1105	87.7	5.1	76.8	3.3	2.4	12.3	0.2	87.8	87.6
	2023	1961	87.8	5.3	78.5	3.5	2.0	9.9	0.8	87.9	87.8
South Africa (5)	2019	1693	67.7	8.1	56.0	8.9	9.7	16.7	0.6	73.1	62.6
	2023	2608	69.9	6.6	51.5	8.1	7.5	26.2	0.2	75.3	64.0
International Avg. (3)	2019	3424	81.4	5.6	70.2	5.2	5.0	13.6	0.3	83.1	79.7
	2023	5678	81.1	5.7	69.0	5.6	4.1	15.1	0.5	83.1	78.9

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

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Science: Life Science / Knowing
SP10_01D SP71009D: Bird, insect, mammal, or reptile - eagle - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	90.6	77.1	1.9	3.6	2.5	14.6	0.2	92.6	88.6
	2023	1109	90.3	81.2	2.1	4.2	2.5	9.4	0.6	91.7	88.8
Morocco	2019	1106	94.5	83.5	2.1	1.8	1.0	11.5	0.2	94.6	94.4
	2023	1961	94.9	85.9	1.4	1.6	1.5	8.8	0.8	95.1	94.8
South Africa (5)	2019	1693	79.0	65.0	4.7	7.8	4.8	17.2	0.6	81.8	76.4
	2023	2608	78.8	58.8	4.8	6.1	5.0	25.2	0.2	81.8	75.6
International Avg. (3)	2019	3426	88.0	75.2	2.9	4.4	2.8	14.4	0.3	89.7	86.5
	2023	5678	88.0	75.3	2.7	4.0	3.0	14.5	0.5	89.5	86.4

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

Science: Life Science / Knowing

SP10_01E SP71009E: Bird, insect, mammal, or reptile - crocodile - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	626	69.9	3.1	1.9	20.5	59.4	14.8	0.2	71.3	68.5
	2023	1109	69.0	2.8	3.3	21.5	61.4	10.5	0.6	70.7	67.3
Morocco	2019	1105	58.8	2.1	2.2	31.2	50.7	13.7	0.2	60.4	57.2
	2023	1961	60.7	1.6	3.3	30.1	54.1	10.0	0.8	61.0	60.5
South Africa (5)	2019	1693	47.0	6.0	9.2	27.7	38.0	18.6	0.6	47.6	46.6
	2023	2608	53.8	6.8	7.1	19.6	39.0	27.3	0.2	56.3	51.5
International Avg. (3)	2019	3424	58.6	3.7	4.5	26.4	49.3	15.7	0.3	59.8	57.4
	2023	5678	61.2	3.7	4.6	23.7	51.5	15.9	0.5	62.7	59.7

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

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Science: Life Science / Knowing
SP10_01F SP71009F: Bird, insect, mammal, or reptile - whale - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	625	80.4	1.8	2.8	68.9	12.2	14.1	0.2	80.9	79.9
	2023	1109	76.2	3.8	4.2	68.1	13.2	10.0	0.6	74.5	78.1
Morocco	2019	1106	59.1	1.7	3.0	50.5	30.2	14.4	0.2	58.4	59.9
	2023	1961	58.6	1.5	2.3	51.8	32.9	10.8	0.8	57.7	59.3
South Africa (5)	2019	1693	48.6	5.3	12.2	39.4	24.2	18.3	0.6	51.0	46.0
	2023	2608	56.2	5.5	8.8	41.3	17.9	26.4	0.2	60.5	51.9
International Avg. (3)	2019	3424	62.7	3.0	6.0	52.9	22.2	15.6	0.3	63.4	61.9
	2023	5678	63.7	3.6	5.1	53.7	21.3	15.7	0.5	64.2	63.1

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

Science: Life Science / Applying
SP10_02 SP71093: Why Amy should wash hands - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	49.2	45.2	43.7	10.6	0.5	57.0	41.5
	2023	1109	43.8	44.8	35.0	19.0	1.1	46.1	41.1
Morocco	2019	1107	33.2	55.9	27.7	15.9	0.4	34.9	31.2
	2023	1961	46.7	44.5	39.0	15.4	1.1	51.1	42.9
South Africa (5)	2019	1693	36.5	49.6	28.6	20.7	1.0	41.9	30.8
	2023	2601	34.9	49.8	26.6	23.2	0.4	40.4	28.2
International Avg. (3)	2019	3428	39.6	50.2	33.3	15.8	0.7	44.6	34.5
	2023	5671	41.8	46.4	33.6	19.2	0.9	45.9	37.4

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

Science: Life Science / Applying

SP10_03 SP71069: 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
Kuwait	2019	627	54.8	11.7	50.5	19.8	10.1	6.9	1.0	57.2	52.3
	2023	1109	50.0	16.3	46.4	20.9	9.2	5.9	1.3	48.8	51.3
Morocco	2019	1105	38.3	11.6	34.2	26.5	16.8	10.2	0.6	35.5	41.2
	2023	1961	44.7	8.4	40.6	24.3	17.5	7.8	1.3	44.1	45.2
South Africa (5)	2019	1693	43.3	9.3	39.0	27.9	13.9	8.8	1.2	41.4	44.8
	2023	2589	41.4	9.3	38.0	30.9	13.6	7.7	0.5	40.7	42.3
International Avg. (3)	2019	3425	45.5	10.9	41.2	24.7	13.6	8.6	1.0	44.7	46.1
	2023	5659	45.4	11.3	41.7	25.4	13.4	7.1	1.0	44.6	46.3

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP10_04 SP71051: Why lemurs sit with arms outstretched - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	10.0	73.7	8.2	16.8	1.2	13.4	6.7
	2023	1108	12.6	60.1	8.7	29.4	1.9	13.9	11.1
Morocco	2019	1107	4.8	73.6	3.7	21.9	0.8	4.2	5.5
	2023	1961	9.6	67.4	7.1	24.0	1.4	10.4	8.9
South Africa (5)	2019	1693	6.4	87.5	5.9	5.1	1.5	6.7	6.1
	2023	2599	8.2	88.1	7.9	3.4	0.6	11.6	4.8
International Avg. (3)	2019	3428	7.1	78.3	6.0	14.6	1.2	8.1	6.1
	2023	5668	10.1	71.9	7.9	18.9	1.3	12.0	8.3

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

Science: Life Science / Applying
SP10_05 SP71039: Type of tree seedling - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	37.6	18.9	24.0	16.2	35.7	3.9	1.3	41.2	34.2
	2023	1108	35.2	18.8	23.1	19.0	33.1	3.7	2.3	37.3	33.0
Morocco	2019	1106	37.2	8.3	27.1	22.8	34.4	6.3	1.3	37.9	36.4
	2023	1961	42.6	9.2	24.6	19.6	39.7	4.8	2.0	47.9	38.2
South Africa (5)	2019	1693	25.8	14.4	29.8	26.6	24.6	3.0	1.7	29.3	22.6
	2023	2598	27.3	18.1	27.5	25.1	26.5	2.0	0.8	32.0	22.6
International Avg. (3)	2019	3426	33.5	13.9	27.0	21.8	31.6	4.4	1.4	36.1	31.0
	2023	5667	35.0	15.4	25.1	21.2	33.1	3.5	1.7	39.1	31.3

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

Science: Life Science / Applying
SP10_06 SP71080: 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
Kuwait	2019	627	24.2	12.1	45.4	15.1	23.1	2.8	1.5	26.3	22.1
	2023	1105	22.6	10.5	48.0	14.5	21.3	3.3	2.4	22.9	22.3
Morocco	2019	1107	32.9	9.2	29.8	22.9	30.4	6.1	1.5	29.5	36.3
	2023	1961	34.4	9.4	29.1	23.6	32.6	3.1	2.3	37.1	32.1
South Africa (5)	2019	1693	57.7	13.3	12.1	14.7	54.9	2.5	2.5	62.3	53.5
	2023	2595	54.3	12.3	16.0	16.3	52.9	1.3	1.2	57.0	51.9
International Avg. (3)	2019	3427	38.3	11.6	29.1	17.6	36.1	3.8	1.8	39.4	37.3
	2023	5661	37.1	10.7	31.0	18.1	35.6	2.6	2.0	39.0	35.4

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

Science: Physical Science / Knowing

SP10_07 SP71137: 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
Kuwait	2019	628	49.1	42.7	41.1	14.6	1.6	49.7	48.4
	2023	1104	37.7	45.7	27.7	23.7	2.9	33.4	42.6
Morocco	2019	1107	13.1	68.6	10.3	19.5	1.5	10.9	15.4
	2023	1961	17.6	62.0	13.2	22.3	2.5	15.5	19.4
South Africa (5)	2019	1693	30.4	65.6	28.6	3.0	2.8	31.4	29.5
	2023	2597	23.0	74.2	22.2	2.3	1.4	24.9	21.3
International Avg. (3)	2019	3428	30.9	59.0	26.7	12.4	2.0	30.6	31.1
	2023	5662	26.1	60.6	21.0	16.1	2.3	24.6	27.7

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

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Science: Physical Science / Knowing

SP10_08 SP71103: 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
Kuwait	2019	627	46.4	27.1	42.9	13.2	9.2	5.3	2.2	44.5	48.2
	2023	1103	40.6	20.8	37.7	22.3	12.2	3.6	3.5	37.5	43.8
Morocco	2019	1105	41.0	16.8	36.1	23.0	12.0	10.0	2.0	35.1	47.4
	2023	1961	47.2	18.5	42.6	19.0	10.2	6.5	3.2	48.8	45.8
South Africa (5)	2019	1693	35.9	15.0	32.7	27.2	16.0	5.6	3.4	33.8	38.0
	2023	2595	32.9	18.9	31.5	26.7	18.6	2.6	1.6	32.6	33.5
International Avg. (3)	2019	3425	41.1	19.7	37.2	21.2	12.4	7.0	2.5	37.8	44.5
	2023	5659	40.2	19.4	37.3	22.7	13.7	4.2	2.7	39.6	41.0

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10_09 SP71106: 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
Kuwait	2019	624	26.7	63.0	23.0	11.8	2.3	27.4	26.1
	2023	1103	24.4	60.4	19.4	16.7	3.5	24.1	24.6
Morocco	2019	1106	22.1	69.7	19.7	8.1	2.4	21.8	22.3
	2023	1961	26.6	63.8	23.1	9.3	3.7	28.8	24.7
South Africa (5)	2019	1693	22.2	66.9	19.1	9.4	4.6	24.0	20.4
	2023	2608	23.5	61.6	19.0	17.5	1.9	23.8	23.4
International Avg. (3)	2019	3423	23.7	66.5	20.6	9.8	3.1	24.4	22.9
	2023	5672	24.8	61.9	20.5	14.5	3.0	25.6	24.2

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10_09A SP71106A: Conclusions - lemon juice and baking soda - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	624	69.7	56.5	24.6	16.7	2.3	70.0	69.4
	2023	1103	75.0	56.4	18.8	21.3	3.5	72.4	77.8
Morocco	2019	1107	68.8	54.3	24.6	18.7	2.4	68.5	69.1
	2023	1961	68.5	54.8	25.1	16.4	3.7	69.5	67.6
South Africa (5)	2019	1693	69.4	53.2	23.4	18.8	4.6	71.3	67.4
	2023	2608	71.7	51.5	20.3	26.3	1.9	73.2	70.4
International Avg. (3)	2019	3424	69.3	54.7	24.2	18.0	3.1	70.0	68.6
	2023	5672	71.7	54.2	21.4	21.3	3.0	71.7	71.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10_09B SP71106B: Conclusions - vinegar with a solid - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	625	67.1	26.0	52.9	18.9	2.3	67.6	66.5
	2023	1103	65.4	24.5	46.5	25.5	3.5	65.6	65.4
Morocco	2019	1106	65.6	26.6	50.9	20.1	2.4	67.2	64.0
	2023	1961	67.0	26.1	53.0	17.2	3.7	68.3	65.8
South Africa (5)	2019	1693	58.1	31.3	43.5	20.6	4.6	61.8	54.2
	2023	2608	59.2	28.1	40.7	29.3	1.9	57.0	62.0
International Avg. (3)	2019	3424	63.6	28.0	49.1	19.8	3.1	65.5	61.6
	2023	5672	63.9	26.2	46.7	24.0	3.0	63.7	64.4

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10_09C SP71106C: Conclusions - lemon juice and salt - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	625	64.4	27.9	50.4	19.4	2.3	66.0	62.7
	2023	1103	61.5	26.9	43.1	26.4	3.5	62.4	60.6
Morocco	2019	1107	66.3	26.3	51.7	19.6	2.4	65.7	66.9
	2023	1961	65.8	26.5	51.0	18.8	3.7	69.2	62.8
South Africa (5)	2019	1693	66.9	24.0	48.4	22.9	4.6	68.7	65.1
	2023	2608	63.8	24.3	42.9	30.8	1.9	67.7	59.6
International Avg. (3)	2019	3425	65.8	26.1	50.2	20.6	3.1	66.8	64.9
	2023	5672	63.7	25.9	45.7	25.3	3.0	66.4	61.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10_09D SP71106D: Conclusions - vinegar and chalk vs baking soda - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	625	67.7	52.8	25.1	19.8	2.3	70.3	65.0
	2023	1103	67.3	48.8	23.7	24.0	3.5	67.1	67.4
Morocco	2019	1107	66.2	51.1	26.1	20.4	2.4	67.0	65.5
	2023	1961	64.4	50.5	27.9	17.9	3.7	64.9	64.0
South Africa (5)	2019	1693	68.0	49.9	23.5	22.0	4.6	70.7	65.4
	2023	2608	66.7	45.2	22.6	30.3	1.9	67.5	65.6
International Avg. (3)	2019	3425	67.3	51.3	24.9	20.8	3.1	69.3	65.3
	2023	5672	66.1	48.2	24.7	24.1	3.0	66.5	65.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing
SP10_10 SP71100: Completing Julie's circuit - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	626	59.0	55.3	26.3	5.8	6.3	3.2	3.0	64.7	53.6
	2023	1108	48.7	44.7	27.7	7.9	11.6	3.1	5.0	50.9	46.3
Morocco	2019	1105	66.7	59.9	13.3	10.8	5.8	6.3	3.9	61.7	71.9
	2023	1961	62.4	56.5	16.0	9.5	8.6	4.3	5.1	63.0	61.9
South Africa (5)	2019	1693	34.7	31.9	28.5	12.7	18.9	2.5	5.5	33.3	35.9
	2023	2591	38.5	36.6	27.6	14.3	16.6	2.4	2.5	39.1	37.9
International Avg. (3)	2019	3424	53.5	49.0	22.7	9.7	10.3	4.0	4.1	53.2	53.8
	2023	5660	49.8	45.9	23.8	10.6	12.3	3.3	4.2	51.0	48.7

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

Science: Earth Science / Applying
SP10_12 SP71220: 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
Kuwait	2019	626	33.1	30.3	24.3	14.8	22.1	3.9	4.6	29.7	36.4
	2023	1108	35.8	31.8	19.8	14.2	23.2	4.8	6.2	36.6	34.9
Morocco	2019	1105	31.1	27.4	22.9	14.2	23.7	6.2	5.5	32.0	30.2
	2023	1961	31.2	27.8	21.7	14.2	25.3	4.9	6.1	30.5	31.8
South Africa (5)	2019	1693	27.9	25.3	24.4	18.0	23.0	3.0	6.4	26.6	29.2
	2023	2593	30.6	29.2	22.4	21.6	22.2	1.5	3.2	33.3	27.9
International Avg. (3)	2019	3424	30.7	27.7	23.9	15.7	22.9	4.3	5.5	29.4	31.9
	2023	5662	32.5	29.6	21.3	16.7	23.6	3.7	5.2	33.4	31.5

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

Science: Earth Science / Knowing

SP10_13 SP71254: Shapes the Moon can have - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	19.5	60.1	14.5	20.5	4.9	20.1	18.9
	2023	1108	19.9	57.4	14.3	21.0	7.4	20.0	19.8
Morocco	2019	1107	8.4	68.1	6.2	19.0	6.7	7.6	9.2
	2023	1961	21.5	59.6	16.4	16.9	7.1	20.7	22.3
South Africa (5)	2019	1693	18.0	56.4	12.4	23.4	7.8	16.9	19.4
	2023	2596	22.5	54.1	15.7	26.3	3.9	24.5	20.6
International Avg. (3)	2019	3428	15.3	61.5	11.1	21.0	6.4	14.8	15.8
	2023	5665	21.3	57.0	15.5	21.4	6.1	21.7	20.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Earth Science / Knowing
SP11_01 SP61132: Hot and wet weather - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	37.2	35.2	13.9	9.2	36.4	4.9	0.4	37.1	37.2
	2023	1123	36.1	33.8	14.0	8.6	37.1	5.0	1.5	34.6	37.7
Morocco	2019	1103	17.5	16.2	17.3	8.6	50.6	6.1	1.2	18.1	17.0
	2023	1962	17.3	16.5	15.2	12.5	51.2	3.4	1.2	16.6	17.8
South Africa (5)	2019	1681	27.9	26.7	27.9	11.8	29.2	2.8	1.6	28.2	27.7
	2023	2594	28.6	27.9	24.2	15.6	29.7	1.6	1.0	29.8	27.5
International Avg. (3)	2019	3419	27.5	26.0	19.7	9.8	38.7	4.6	1.1	27.8	27.3
	2023	5679	27.3	26.0	17.8	12.2	39.3	3.4	1.2	27.0	27.7

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

Science: Earth Science / Knowing
SP11_02 SP61120: Season south of Equator - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	42.3	16.8	24.5	12.9	39.7	5.6	0.4	41.4	43.2
	2023	1123	43.4	18.2	21.1	12.8	39.9	6.1	1.9	43.8	43.0
Morocco	2019	1104	29.0	19.0	24.4	19.1	25.6	10.1	1.8	31.5	26.7
	2023	1962	32.6	16.1	27.0	19.8	30.4	5.2	1.5	32.0	33.2
South Africa (5)	2019	1681	30.2	20.7	32.4	13.8	29.0	2.2	1.8	30.6	29.8
	2023	2593	29.8	24.2	29.0	14.8	28.8	1.9	1.3	31.9	27.2
International Avg. (3)	2019	3421	33.9	18.8	27.1	15.3	31.4	6.0	1.3	34.5	33.3
	2023	5678	35.3	19.5	25.7	15.8	33.0	4.4	1.6	35.9	34.5

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

Science: Life Science / Knowing

SP11_03 SP61025: Life cycle of flowering plant - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	45.2	48.5	40.0	11.1	0.4	45.1	45.3
	2023	1123	35.0	54.8	29.5	13.5	2.2	40.2	29.3
Morocco	2019	1105	12.2	69.7	9.7	18.5	2.2	12.2	12.2
	2023	1962	55.2	35.3	43.4	19.5	1.9	55.0	55.3
South Africa (5)	2019	1681	28.1	68.5	26.8	2.6	2.1	28.8	27.3
	2023	2598	29.3	67.8	28.1	2.6	1.4	33.5	25.3
International Avg. (3)	2019	3422	28.5	62.2	25.5	10.7	1.6	28.7	28.3
	2023	5683	39.8	52.6	33.7	11.9	1.8	42.9	36.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Reasoning

SP11_04A SP61133A: Water and plant height conclusion - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	40.4	18.8	20.5	38.3	17.3	4.2	0.9	40.6	40.2
	2023	1123	43.3	17.4	20.9	39.6	13.4	5.7	2.9	46.4	40.2
Morocco	2019	1104	35.9	15.7	17.4	32.2	24.3	8.0	2.4	32.9	38.6
	2023	1962	45.8	14.8	15.2	42.8	20.6	4.0	2.5	45.1	46.5
South Africa (5)	2019	1681	39.1	10.9	13.7	37.5	33.6	1.9	2.3	36.9	41.4
	2023	2594	39.2	11.9	15.6	37.7	31.0	2.2	1.6	40.5	38.2
International Avg. (3)	2019	3420	38.5	15.1	17.2	36.0	25.1	4.7	1.9	36.8	40.1
	2023	5679	42.8	14.7	17.3	40.0	21.7	4.0	2.3	44.0	41.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP11_04B SP61133B: Water and plant height statement - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	17.3	25.2	31.1	21.0	16.1	5.3	1.2	15.1	19.2
	2023	1123	20.0	19.7	34.0	18.3	18.0	6.3	3.7	20.6	19.5
Morocco	2019	1104	16.0	19.6	29.8	25.3	14.2	8.5	2.6	14.6	17.3
	2023	1962	20.6	16.0	29.1	26.2	18.5	7.2	3.0	20.2	21.0
South Africa (5)	2019	1681	14.4	29.1	29.6	21.1	13.4	3.7	3.1	17.0	11.8
	2023	2588	16.3	25.1	31.3	22.9	15.4	2.8	2.5	17.2	15.0
International Avg. (3)	2019	3420	15.9	24.6	30.2	22.5	14.6	5.9	2.3	15.6	16.1
	2023	5673	19.0	20.2	31.5	22.5	17.3	5.4	3.1	19.3	18.5

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

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Science: Life Science / Applying
SP11_05 SP61074: Factory near farm fields - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	49.5	36.3	35.6	26.9	1.2	47.7	51.6
	2023	1123	51.2	29.7	31.1	35.1	4.0	52.1	50.1
Morocco	2019	1105	13.3	62.0	9.5	25.5	2.9	12.0	14.7
	2023	1962	27.8	46.0	17.7	32.7	3.7	27.0	28.5
South Africa (5)	2019	1681	16.2	75.7	14.6	6.3	3.4	17.0	15.4
	2023	2600	17.0	76.5	15.7	4.4	3.4	20.5	13.8
International Avg. (3)	2019	3422	26.4	58.0	19.9	19.6	2.5	25.6	27.2
	2023	5685	32.0	50.7	21.5	24.1	3.7	33.2	30.8

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

Science: Life Science / Knowing

SP11_06 SP61093: Polar bear fur for survival - CR - 2 Points

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	2pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	33.7	37.3	35.3	10.3	15.6	1.5	34.4	33.1
	2023	1123	27.7	40.3	28.8	6.6	19.5	4.8	28.5	26.9
Morocco	2019	1105	11.9	60.6	17.1	0.8	18.0	3.5	12.8	11.1
	2023	1962	23.2	46.5	27.4	4.5	16.9	4.6	23.5	23.0
South Africa (5)	2019	1681	10.7	72.6	14.6	2.2	6.5	4.0	11.6	9.8
	2023	2600	12.9	72.2	16.2	3.8	4.0	3.8	14.5	11.4
International Avg. (3)	2019	3422	18.8	56.8	22.4	4.4	13.4	3.0	19.6	18.0
	2023	5685	21.3	53.0	24.1	5.0	13.5	4.4	22.2	20.4

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

Science: Physical Science / Applying
SP11_07 SP61161: Pots are made of metal - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	18.6	57.6	13.2	27.6	1.6	17.7	19.6
	2023	1123	25.2	43.6	14.7	36.6	5.1	28.2	21.9
Morocco	2019	1105	11.7	54.5	7.2	34.6	3.7	12.6	10.9
	2023	1962	24.9	44.9	14.9	35.3	4.9	28.6	21.5
South Africa (5)	2019	1681	10.8	77.7	9.4	8.3	4.6	11.2	10.5
	2023	2597	12.9	79.5	11.8	4.0	4.8	15.1	10.9
International Avg. (3)	2019	3422	13.7	63.3	9.9	23.5	3.3	13.8	13.7
	2023	5682	21.0	56.0	13.8	25.3	4.9	24.0	18.1

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

Science: Physical Science / Reasoning

SP11_08A SP61042A: Separate iron from sand and salt - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	31.3	33.9	29.4	24.4	6.1	4.2	2.0	31.7	31.0
	2023	1123	29.5	35.2	26.5	22.4	5.6	4.0	6.2	30.1	29.0
Morocco	2019	1103	23.3	31.7	19.4	21.5	10.7	12.8	3.9	23.7	22.9
	2023	1962	28.4	30.2	24.9	23.8	8.8	6.8	5.5	29.5	27.4
South Africa (5)	2019	1681	23.1	34.5	20.5	25.7	8.0	5.9	5.4	21.0	25.2
	2023	2603	27.5	32.2	24.5	22.6	10.0	5.6	5.0	27.2	28.1
International Avg. (3)	2019	3420	25.9	33.4	23.1	23.9	8.2	7.6	3.8	25.5	26.4
	2023	5688	28.4	32.6	25.3	23.0	8.1	5.5	5.6	28.9	28.1

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

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Science: Physical Science / Reasoning

SP11_08B SP61042B: Separate sand from mixture - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	635	29.9	26.2	26.8	14.1	20.6	10.1	2.1	34.5	25.5
	2023	1123	30.7	25.1	21.5	13.0	22.0	11.8	6.5	28.6	32.9
Morocco	2019	1103	21.4	18.6	22.6	18.6	27.2	9.0	4.0	19.6	22.9
	2023	1962	30.1	25.2	19.8	18.9	19.9	10.5	5.7	31.7	28.6
South Africa (5)	2019	1681	19.2	16.4	25.2	17.0	26.7	8.6	6.2	20.8	17.7
	2023	2603	22.2	19.4	27.1	18.2	22.4	7.1	5.8	23.2	21.4
International Avg. (3)	2019	3419	23.5	20.4	24.9	16.6	24.8	9.2	4.1	25.0	22.1
	2023	5688	27.7	23.2	22.8	16.7	21.4	9.8	6.0	27.8	27.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying
SP11_09A SP61041A: Boiling water disappears - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	46.7	39.7	34.8	22.2	3.3	51.2	42.0
	2023	1123	37.4	41.4	24.7	26.3	7.6	37.6	37.1
Morocco	2019	1105	25.1	56.6	18.9	19.2	5.3	22.5	27.5
	2023	1962	38.1	45.6	28.0	20.0	6.4	41.7	34.7
South Africa (5)	2019	1681	7.7	80.8	6.7	6.1	6.4	8.0	7.4
	2023	2599	9.4	81.8	8.5	3.6	6.1	11.0	7.9
International Avg. (3)	2019	3422	26.5	59.0	20.2	15.8	5.0	27.2	25.6
	2023	5684	28.3	56.3	20.4	16.6	6.7	30.1	26.6

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

Science: Physical Science / Applying
SP11_09B SP61041B: Steam on window - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	37.0	43.3	25.4	27.4	3.9	39.1	34.5
	2023	1123	30.3	40.5	17.6	33.1	8.8	31.3	29.3
Morocco	2019	1105	14.7	58.6	10.1	25.4	5.9	15.5	13.8
	2023	1962	36.6	40.8	23.6	28.3	7.4	41.0	32.5
South Africa (5)	2019	1681	9.6	76.9	8.2	7.3	7.7	11.6	7.6
	2023	2599	11.6	78.3	10.2	4.3	7.1	15.0	8.3
International Avg. (3)	2019	3422	20.4	59.6	14.6	20.0	5.8	22.1	18.6
	2023	5684	26.2	53.2	17.1	21.9	7.8	29.1	23.3

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

Science: Physical Science / Applying

SP11_10 SP61155: Bulb in circuit will not light - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	636	48.6	45.9	25.7	12.9	10.1	1.4	4.0	49.8	47.5
	2023	1123	51.9	45.2	23.0	9.8	9.1	3.7	9.3	52.1	51.7
Morocco	2019	1104	59.2	53.4	17.6	9.9	9.4	3.4	6.4	61.3	57.3
	2023	1962	52.3	46.8	18.3	12.8	11.5	2.0	8.5	52.2	52.4
South Africa (5)	2019	1681	38.3	34.1	22.8	23.6	8.5	3.1	7.9	39.4	36.8
	2023	2579	46.7	42.7	17.9	20.4	10.4	1.9	6.7	51.1	42.7
International Avg. (3)	2019	3421	48.7	44.5	22.0	15.5	9.3	2.6	6.1	50.2	47.2
	2023	5664	50.3	44.9	19.7	14.3	10.3	2.5	8.2	51.8	48.9

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

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Science: Life Science / Applying
SP12_01 SP71031: Order life stages of a butterfly - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	36.0	62.7	35.3	1.3	0.7	38.5	33.9
	2023	1121	23.3	73.5	22.3	3.1	1.1	21.1	25.6
Morocco	2019	1107	17.5	80.8	17.1	2.0	0.0	15.3	19.5
	2023	1971	17.5	79.0	16.8	3.8	0.4	14.6	20.4
South Africa (5)	2019	1687	17.4	77.7	16.4	5.6	0.3	15.2	19.6
	2023	2596	18.6	79.1	18.0	2.5	0.4	18.2	19.0
International Avg. (3)	2019	3423	23.6	73.7	23.0	3.0	0.3	23.0	24.3
	2023	5688	19.8	77.2	19.1	3.1	0.6	18.0	21.6

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

Science: Life Science / Applying
SP12_02 SP71090: Ice cream with fewer germs - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	20.5	77.4	19.9	2.0	0.7	24.4	16.9
	2023	1121	20.0	76.8	19.2	2.8	1.2	22.3	17.6
Morocco	2019	1107	17.2	81.9	17.0	1.0	0.1	20.2	14.4
	2023	1971	12.9	84.9	12.6	2.0	0.5	16.1	9.9
South Africa (5)	2019	1687	25.5	72.5	24.8	1.9	0.7	31.1	19.9
	2023	2594	16.8	80.5	16.2	2.8	0.5	19.8	13.9
International Avg. (3)	2019	3423	21.0	77.3	20.6	1.6	0.5	25.3	17.1
	2023	5686	16.6	80.7	16.0	2.5	0.7	19.4	13.8

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

Science: Life Science / Applying
SP12_03 SP71048: 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
Kuwait	2019	628	32.2	15.7	29.0	22.0	23.3	9.2	0.8	28.4	35.7
	2023	1120	28.8	21.5	25.6	19.7	22.2	9.6	1.4	25.8	31.8
Morocco	2019	1107	36.5	13.2	33.6	21.4	24.0	7.5	0.2	31.4	41.0
	2023	1971	40.2	10.7	37.1	21.9	22.5	7.3	0.5	41.6	38.9
South Africa (5)	2019	1687	27.8	23.5	25.9	20.4	23.2	5.5	1.4	25.7	30.1
	2023	2577	29.2	23.9	27.1	19.1	22.6	6.8	0.6	27.4	31.1
International Avg. (3)	2019	3422	32.2	17.5	29.5	21.3	23.5	7.4	0.8	28.5	35.6
	2023	5668	32.7	18.7	29.9	20.2	22.4	7.9	0.8	31.6	33.9

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

Science: Life Science / Reasoning

SP12_04 SP71071: 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
Kuwait	2019	629	16.8	60.6	12.3	25.9	1.3	20.0	13.6
	2023	1120	17.1	52.0	10.7	35.1	2.1	16.1	18.1
Morocco	2019	1107	16.5	63.4	12.6	23.6	0.5	14.4	18.6
	2023	1971	25.7	48.9	16.9	33.2	1.0	26.4	25.0
South Africa (5)	2019	1687	7.6	85.8	7.1	5.1	2.1	7.4	7.9
	2023	2596	7.1	88.5	6.8	3.9	0.8	7.9	6.4
International Avg. (3)	2019	3423	13.7	69.9	10.6	18.2	1.3	13.9	13.3
	2023	5687	16.6	63.1	11.5	24.1	1.3	16.8	16.5

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

Science: Life Science / Reasoning
SP12_05 SP71011: 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
Kuwait	2019	628	52.9	13.0	22.3	47.0	6.5	10.0	1.3	59.2	46.9
	2023	1120	49.5	16.2	22.2	42.9	5.3	10.8	2.6	50.4	48.6
Morocco	2019	1107	37.0	12.6	28.2	31.9	13.6	13.0	0.7	36.9	37.1
	2023	1970	54.8	11.9	19.7	48.1	8.2	10.8	1.5	56.5	53.0
South Africa (5)	2019	1687	43.5	9.6	31.6	36.6	6.4	13.5	2.4	47.1	40.3
	2023	2572	43.4	12.0	31.4	39.6	8.3	7.7	1.0	45.7	41.0
International Avg. (3)	2019	3422	44.5	11.7	27.3	38.5	8.8	12.2	1.5	47.7	41.4
	2023	5662	49.2	13.4	24.4	43.5	7.3	9.7	1.7	50.9	47.5

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

Science: Physical Science / Knowing

SP12_06 SP71142: 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
Kuwait	2019	629	33.6	49.2	7.6	6.7	32.2	2.9	1.3	33.5	33.8
	2023	1121	31.4	44.4	11.6	7.7	29.1	4.3	3.0	28.3	34.5
Morocco	2019	1106	44.5	32.4	10.3	9.2	41.5	5.6	0.9	43.3	45.5
	2023	1970	44.2	33.0	9.7	9.7	41.4	4.0	2.4	43.8	44.5
South Africa (5)	2019	1687	49.5	14.0	13.3	20.6	47.0	2.4	2.7	52.5	46.1
	2023	2588	45.7	19.7	11.7	21.3	44.4	1.6	1.3	49.5	41.9
International Avg. (3)	2019	3422	42.5	31.9	10.4	12.2	40.2	3.7	1.6	43.1	41.8
	2023	5679	40.4	32.3	11.0	12.9	38.3	3.3	2.2	40.5	40.3

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

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Science: Physical Science / Knowing

SP12_07 SP71138: 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
Kuwait	2019	629	35.9	47.7	26.8	23.9	1.7	35.2	36.7
	2023	1118	65.2	22.6	42.4	31.6	3.4	66.5	64.0
Morocco	2019	1107	49.7	41.1	40.6	17.0	1.3	49.4	50.0
	2023	1971	58.4	30.9	43.3	22.7	3.0	60.7	55.8
South Africa (5)	2019	1687	25.1	69.8	23.5	3.6	3.1	28.5	21.6
	2023	2597	32.7	63.8	31.0	3.2	1.9	35.5	30.2
International Avg. (3)	2019	3423	36.9	52.9	30.3	14.8	2.0	37.7	36.1
	2023	5686	52.1	39.1	38.9	19.2	2.8	54.2	50.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Physical Science / Knowing
SP12_08 SP71127: 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
Kuwait	2019	629	56.0	7.8	29.0	53.1	4.8	3.3	1.9	57.7	54.6
	2023	1118	49.7	8.5	31.9	45.7	5.8	4.2	3.9	51.1	48.4
Morocco	2019	1107	51.6	4.9	35.9	48.6	4.6	4.3	1.6	53.4	50.0
	2023	1971	54.8	5.5	31.0	51.2	5.8	3.3	3.3	57.6	52.0
South Africa (5)	2019	1687	52.9	9.7	29.1	49.5	5.3	2.9	3.5	55.0	50.9
	2023	2584	52.1	10.6	28.9	50.0	6.7	1.9	2.0	54.9	49.6
International Avg. (3)	2019	3423	53.5	7.5	31.3	50.4	4.9	3.5	2.3	55.3	51.8
	2023	5673	52.2	8.2	30.6	49.0	6.1	3.1	3.1	54.6	50.0

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

Science: Physical Science / Applying
SP12_10 SP71500: Magnets that Anne has - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	32.3	13.6	16.3	32.5	29.8	5.5	2.3	35.9	29.1
	2023	1118	29.9	13.8	20.4	28.1	26.6	6.7	4.5	28.8	31.0
Morocco	2019	1107	28.0	12.3	20.8	31.6	25.2	7.7	2.4	29.6	26.5
	2023	1966	30.7	11.9	20.4	31.2	28.2	4.2	4.2	32.8	28.7
South Africa (5)	2019	1687	23.7	17.0	24.7	28.9	21.9	3.1	4.6	22.9	24.3
	2023	2586	26.4	18.2	22.8	29.2	25.2	2.4	2.3	27.2	25.8
International Avg. (3)	2019	3421	28.0	14.3	20.6	31.0	25.6	5.4	3.1	29.4	26.6
	2023	5670	29.0	14.6	21.2	29.5	26.6	4.4	3.7	29.6	28.5

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

Science: Earth Science / Reasoning

SP12_11 SP71257: When the man has a shorter shadow - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	47.3	19.8	45.1	15.5	15.0	2.0	2.6	48.8	46.0
	2023	1118	45.6	19.9	41.8	15.1	14.9	3.4	4.8	44.6	46.5
Morocco	2019	1107	57.6	11.9	53.3	14.5	12.8	4.6	2.9	54.4	60.6
	2023	1971	54.5	15.2	50.0	13.5	13.1	3.2	5.0	54.3	54.7
South Africa (5)	2019	1687	45.7	15.5	42.9	16.9	18.7	1.3	4.8	42.3	49.0
	2023	2586	41.4	20.2	39.8	17.7	18.5	1.3	2.6	41.6	41.0
International Avg. (3)	2019	3423	50.2	15.7	47.1	15.6	15.5	2.6	3.5	48.5	51.9
	2023	5675	47.2	18.4	43.9	15.4	15.5	2.7	4.2	46.8	47.4

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

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Science: Earth Science / Applying
SP12_12 SP71222: Fish fossil in the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	629	30.4	54.8	23.9	18.3	3.0	31.3	29.6
	2023	1118	40.9	38.1	26.4	29.8	5.7	40.0	41.9
Morocco	2019	1107	23.8	56.8	17.7	21.9	3.6	21.1	26.2
	2023	1971	35.4	44.7	24.4	24.7	6.2	35.0	35.6
South Africa (5)	2019	1687	13.8	77.4	12.4	5.3	4.9	12.8	14.8
	2023	2597	12.5	81.3	11.6	3.9	3.2	12.8	12.2
International Avg. (3)	2019	3423	22.7	63.0	18.0	15.2	3.8	21.7	23.5
	2023	5686	29.6	54.7	20.8	19.5	5.1	29.3	29.9

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

Science: Earth Science / Knowing

SP12_13 SP71252: 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
Kuwait	2019	629	55.2	50.6	23.4	12.8	4.9	4.7	3.7	59.0	51.9
	2023	1121	58.1	50.5	20.9	10.5	4.9	5.3	7.8	56.8	59.3
Morocco	2019	1106	36.0	31.2	24.2	22.7	8.5	7.7	5.7	35.5	36.5
	2023	1971	44.4	37.7	20.4	20.6	6.2	6.1	9.0	43.9	44.9
South Africa (5)	2019	1687	43.0	36.7	26.1	15.3	7.3	7.9	6.7	45.2	40.7
	2023	2572	38.1	34.8	28.3	19.4	8.8	5.1	3.5	40.4	36.2
International Avg. (3)	2019	3422	44.7	39.5	24.6	16.9	6.9	6.7	5.4	46.5	43.0
	2023	5664	46.9	41.0	23.2	16.8	6.6	5.5	6.8	47.0	46.8

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

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Science: Life Science / Applying
SP13_02 SP61014: Jack on a bus with sick man (EXCLUDED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	25.1	63.1	21.2	15.3	0.5	31.7	18.7
	2023	1121	45.9	40.4	34.3	23.9	1.4	49.3	42.0
Morocco	2019	1110	41.2	48.5	34.0	16.6	0.8	44.8	38.2
	2023	1957	51.1	39.2	40.9	17.3	2.7	54.7	47.5
South Africa (5)	2019	1686	15.6	80.5	14.9	3.6	1.0	18.3	12.8
	2023	2613	24.5	72.5	23.5	3.3	0.7	28.8	20.4
International Avg. (3)	2019	3423	27.3	64.0	23.4	11.8	0.8	31.6	23.2
	2023	5691	40.5	50.7	32.9	14.8	1.6	44.3	36.6

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

Science: Life Science / Reasoning
SP13_03 SP61056: Mary's and Jenny's flowers - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	39.3	59.3	38.4	1.8	0.5	48.2	30.4
	2023	1121	31.9	65.8	30.8	1.7	1.6	37.8	25.8
Morocco	2019	1110	44.5	54.2	43.5	1.1	1.2	46.3	43.1
	2023	1957	42.4	55.2	40.7	1.2	3.0	48.4	37.1
South Africa (5)	2019	1686	38.4	59.9	37.3	1.6	1.1	42.1	34.7
	2023	2613	32.2	65.5	31.1	2.3	1.2	36.9	27.6
International Avg. (3)	2019	3423	40.7	57.8	39.7	1.5	1.0	45.5	36.0
	2023	5691	35.5	62.2	34.2	1.7	1.9	41.0	30.2

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

Science: Life Science / Reasoning
SP13_04 SP61015: Best environment for shark - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	29.2	68.9	28.4	2.1	0.6	36.7	21.8
	2023	1120	31.3	65.6	30.0	2.8	1.6	35.5	27.0
Morocco	2019	1110	35.3	62.3	34.0	2.5	1.2	37.7	33.4
	2023	1957	36.5	60.1	34.6	1.8	3.5	38.9	34.4
South Africa (5)	2019	1686	25.7	71.6	24.7	2.0	1.7	24.9	26.3
	2023	2611	32.2	64.9	30.8	2.6	1.8	34.7	29.8
International Avg. (3)	2019	3423	30.1	67.6	29.0	2.2	1.2	33.1	27.2
	2023	5688	33.3	63.5	31.8	2.4	2.3	36.4	30.4

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

Science: Life Science / Knowing
SP13_05 SP61113: Boiling water before drinking - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	627	20.4	59.5	15.2	24.3	0.9	20.4	20.3
	2023	1120	30.7	42.2	18.7	36.3	2.7	31.0	30.1
Morocco	2019	1110	27.2	51.4	19.2	27.6	1.8	25.5	28.7
	2023	1955	30.4	47.6	20.8	27.3	4.2	31.2	29.6
South Africa (5)	2019	1686	19.5	73.7	17.9	5.7	2.8	21.4	17.8
	2023	2609	18.8	75.4	17.5	4.5	2.5	20.1	17.6
International Avg. (3)	2019	3423	22.4	61.5	17.5	19.2	1.8	22.4	22.3
	2023	5684	26.6	55.1	19.0	22.7	3.2	27.4	25.8

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

Science: Physical Science / Knowing
SP13_06 SP61107: Property of a liquid - MC - Key: D

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	626	31.7	16.5	23.6	23.8	29.6	5.3	1.2	33.4	29.9
	2023	1120	31.9	17.7	20.5	22.6	28.5	6.8	3.8	32.5	31.1
Morocco	2019	1110	34.1	11.9	16.3	30.7	30.5	7.3	3.1	39.3	30.0
	2023	1955	35.8	9.4	18.2	29.3	31.7	6.1	5.4	36.6	35.0
South Africa (5)	2019	1686	23.0	15.2	21.9	32.2	20.7	6.4	3.6	26.7	19.6
	2023	2597	27.7	17.3	19.3	30.6	25.7	4.2	3.0	29.9	25.6
International Avg. (3)	2019	3422	29.6	14.5	20.6	28.9	26.9	6.4	2.7	33.1	26.5
	2023	5672	31.8	14.8	19.3	27.5	28.6	5.7	4.1	33.0	30.6

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

Science: Physical Science / Reasoning
SP13_07 SP61046: Mary dissolving sugar - MC - Key: C

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	623	28.8	20.6	21.6	25.4	20.7	10.5	1.2	32.3	25.1
	2023	1121	26.3	23.8	19.6	22.7	20.2	9.5	4.2	25.6	26.8
Morocco	2019	1110	33.3	15.3	20.7	27.1	18.4	14.8	3.8	31.5	34.7
	2023	1957	38.5	11.6	21.5	32.5	18.8	9.8	5.7	37.5	39.4
South Africa (5)	2019	1686	30.9	15.9	20.4	27.2	24.5	7.8	4.1	27.5	34.1
	2023	2592	30.6	15.9	22.6	28.1	25.2	4.8	3.4	31.9	29.4
International Avg. (3)	2019	3419	31.0	17.3	20.9	26.6	21.2	11.0	3.1	30.4	31.3
	2023	5670	31.8	17.1	21.2	27.8	21.4	8.1	4.4	31.7	31.9

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

Science: Physical Science / Applying
SP13_08 SP61047: Object X complete circuit - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	625	63.0	18.3	60.0	11.0	5.9	3.1	1.7	65.3	60.9
	2023	1122	53.8	22.2	49.3	11.6	8.5	3.6	4.8	54.5	53.0
Morocco	2019	1110	60.7	12.2	55.1	15.0	8.5	4.7	4.5	58.8	62.2
	2023	1957	61.0	12.6	54.7	14.1	8.2	4.0	6.4	59.3	62.6
South Africa (5)	2019	1686	53.2	21.3	49.2	12.7	9.3	2.7	4.8	57.7	48.8
	2023	2602	50.4	19.3	47.6	15.6	12.0	1.8	3.7	53.1	47.8
International Avg. (3)	2019	3421	59.0	17.3	54.8	12.9	7.9	3.5	3.7	60.6	57.3
	2023	5681	55.1	18.0	50.5	13.8	9.6	3.2	5.0	55.6	54.5

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

Science: Physical Science / Knowing
SP13_09 SP61048: Movements due to gravity - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	622	53.0	42.7	12.1	14.8	10.8	17.6	1.9	58.2	48.1
	2023	1121	53.5	39.8	9.9	14.5	10.3	20.2	5.3	53.8	53.0
Morocco	2019	1110	37.7	28.2	9.2	20.8	16.5	20.6	4.8	40.1	35.9
	2023	1955	42.9	31.4	7.8	19.1	14.9	19.6	7.2	46.0	39.9
South Africa (5)	2019	1686	28.2	23.6	11.7	30.9	17.6	11.0	5.2	28.6	27.8
	2023	2582	29.5	26.3	13.0	32.1	17.6	6.8	4.2	31.1	27.9
International Avg. (3)	2019	3418	39.6	31.5	11.0	22.2	15.0	16.4	4.0	42.3	37.3
	2023	5658	42.0	32.5	10.3	21.9	14.3	15.5	5.6	43.6	40.3

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

Science: Earth Science / Applying
SP13_10 SP61096: 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
Kuwait	2019	625	41.5	22.9	38.1	16.9	13.8	5.4	3.0	42.4	40.7
	2023	1121	35.2	23.5	30.2	19.4	12.6	6.8	7.6	36.5	34.0
Morocco	2019	1110	38.3	14.7	32.8	24.3	13.9	8.0	6.2	36.0	40.0
	2023	1957	35.7	15.1	30.3	25.4	14.0	7.0	8.2	37.0	34.6
South Africa (5)	2019	1686	35.1	16.6	31.8	30.1	12.2	3.6	5.8	34.7	35.2
	2023	2597	33.5	18.5	31.1	28.2	15.1	2.3	4.9	32.3	34.7
International Avg. (3)	2019	3421	38.3	18.1	34.2	23.7	13.3	5.7	5.0	37.7	38.6
	2023	5675	34.8	19.0	30.5	24.3	13.9	5.3	6.9	35.3	34.4

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

Science: Earth Science / Knowing
SP13_11 SP61124: Recycle products made of metal (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	623	13.2	74.5	11.4	10.6	3.5	11.4	15.1
	2023	1121	18.1	63.8	14.0	13.1	9.1	17.4	18.8
Morocco	2019	1110	11.6	74.3	9.8	8.9	7.0	11.4	11.7
	2023	1957	11.4	75.2	9.6	6.0	9.1	10.8	11.9
South Africa (5)	2019	1686	13.1	78.2	11.8	3.9	6.1	13.6	12.6
	2023	2614	12.7	74.7	10.8	9.0	5.5	12.0	13.3
International Avg. (3)	2019	3419	12.6	75.7	11.0	7.8	5.6	12.1	13.1
	2023	5692	14.0	71.2	11.5	9.4	7.9	13.4	14.7

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

Science: Earth Science / Knowing

SP13_11B SP61124B: Recycle products made of metal: run out - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	624	47.6	39.3	43.3	13.9	3.5	44.0	51.2
	2023	1121	55.5	40.9	32.8	17.2	9.1	55.5	55.4
Morocco	2019	1110	44.4	33.5	42.0	17.5	7.0	44.3	44.4
	2023	1957	45.0	35.1	43.0	12.8	9.1	43.6	46.2
South Africa (5)	2019	1686	51.9	45.2	41.8	6.8	6.1	51.4	52.4
	2023	2614	50.2	40.2	39.9	14.4	5.5	50.1	50.2
International Avg. (3)	2019	3420	47.9	39.3	42.4	12.8	5.6	46.5	49.3
	2023	5692	50.2	38.7	38.6	14.8	7.9	49.7	50.6

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

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Science: Earth Science / Knowing

SP13_11C SP61124C: Recycle products made of metal: plastic - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	624	59.2	33.6	48.6	14.3	3.5	57.9	60.4
	2023	1121	60.6	28.7	44.2	18.0	9.1	58.2	63.4
Morocco	2019	1110	49.6	39.2	38.6	15.2	7.0	44.9	53.2
	2023	1957	53.5	36.4	41.8	12.7	9.1	52.5	54.4
South Africa (5)	2019	1686	55.7	38.6	48.4	6.9	6.1	54.2	57.2
	2023	2614	56.9	34.8	45.9	13.9	5.5	54.4	59.5
International Avg. (3)	2019	3420	54.8	37.1	45.2	12.1	5.6	52.4	56.9
	2023	5692	57.0	33.3	44.0	14.9	7.9	55.0	59.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP13_11D SP61124D: Recycle products made of metal: garbage - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	623	66.0	53.8	27.7	15.0	3.5	64.2	67.9
	2023	1121	68.0	48.9	23.0	19.0	9.1	66.4	69.7
Morocco	2019	1110	57.9	45.0	32.7	15.2	7.0	60.4	56.0
	2023	1957	63.0	49.2	28.9	12.8	9.1	66.4	59.8
South Africa (5)	2019	1686	61.8	53.4	32.9	7.6	6.1	62.2	61.4
	2023	2614	59.6	47.4	32.1	15.1	5.5	58.2	61.1
International Avg. (3)	2019	3419	61.9	50.7	31.1	12.6	5.6	62.2	61.8
	2023	5692	63.5	48.5	28.0	15.6	7.9	63.7	63.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP13_11E SP61124E: Recycle products made of metal: expensive - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	623	56.8	46.4	35.2	14.9	3.5	57.6	56.0
	2023	1121	57.9	41.6	30.3	19.0	9.1	56.3	59.6
Morocco	2019	1110	59.1	45.0	31.1	16.9	7.0	57.5	60.3
	2023	1957	59.5	46.1	31.4	13.5	9.1	58.1	60.8
South Africa (5)	2019	1686	59.6	51.1	34.7	8.1	6.1	63.3	56.1
	2023	2614	61.6	48.5	30.3	15.8	5.5	60.9	62.4
International Avg. (3)	2019	3419	58.5	47.5	33.7	13.3	5.6	59.5	57.5
	2023	5692	59.7	45.4	30.6	16.1	7.9	58.4	60.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying
SP13_12 SP61116: Temperature graphs (DERIVED) - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	620	20.1	65.0	16.3	10.2	8.5	19.9	20.3
	2023	1122	24.7	55.0	18.1	10.7	16.3	24.6	24.5
Morocco	2019	1110	18.3	65.6	14.6	8.2	11.6	16.5	19.6
	2023	1957	23.4	60.4	18.5	8.7	12.5	22.7	24.1
South Africa (5)	2019	1686	21.6	65.8	18.1	7.1	9.0	21.7	21.6
	2023	2614	19.6	62.7	15.3	11.6	10.4	21.8	17.5
International Avg. (3)	2019	3416	20.0	65.4	16.4	8.5	9.7	19.3	20.5
	2023	5693	22.6	59.4	17.3	10.3	13.1	23.0	22.0

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

Science: Earth Science / Applying
SP13_12B SP61116B: Temperature graphs: June - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	621	46.9	36.9	41.7	12.9	8.5	45.3	48.6
	2023	1122	55.7	38.6	30.7	14.4	16.3	52.8	58.8
Morocco	2019	1110	46.7	33.9	38.7	15.8	11.6	38.4	53.1
	2023	1957	55.1	41.0	33.4	13.2	12.5	53.2	56.8
South Africa (5)	2019	1686	53.2	43.0	37.8	10.3	9.0	51.9	54.5
	2023	2614	54.9	40.6	33.3	15.7	10.4	54.4	55.2
International Avg. (3)	2019	3417	48.9	37.9	39.4	13.0	9.7	45.2	52.1
	2023	5693	55.2	40.0	32.5	14.4	13.1	53.5	57.0

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

Science: Earth Science / Applying
SP13_12C SP61116C: Temperature graphs: tropical - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	621	51.1	37.3	39.0	15.2	8.5	49.9	52.3
	2023	1122	57.9	28.2	38.8	16.7	16.3	56.5	59.3
Morocco	2019	1110	48.0	37.4	34.5	16.5	11.6	39.4	54.4
	2023	1957	51.1	35.2	36.9	15.4	12.5	50.5	51.7
South Africa (5)	2019	1686	56.4	35.2	45.5	10.4	9.0	54.7	58.2
	2023	2614	57.9	30.1	41.4	18.1	10.4	60.2	55.6
International Avg. (3)	2019	3417	51.8	36.6	39.7	14.1	9.7	48.0	55.0
	2023	5693	55.6	31.2	39.0	16.8	13.1	55.7	55.5

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

Science: Earth Science / Applying
SP13_12D SP61116D: Temperature graphs: November - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	622	55.0	42.1	34.5	14.9	8.5	53.0	57.1
	2023	1122	63.2	42.6	24.8	16.3	16.3	60.1	66.6
Morocco	2019	1110	56.4	42.1	32.6	13.7	11.6	55.4	57.1
	2023	1957	59.7	44.0	29.7	13.8	12.5	59.1	60.2
South Africa (5)	2019	1686	60.1	47.2	31.4	12.4	9.0	60.3	59.8
	2023	2614	59.5	42.0	28.6	19.0	10.4	60.2	58.8
International Avg. (3)	2019	3418	57.1	43.8	32.8	13.6	9.7	56.2	58.0
	2023	5693	60.8	42.9	27.7	16.4	13.1	59.8	61.8

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

Science: Earth Science / Applying
SP13_12E SP61116E: Temperature graphs: Equator - MC - Key: B

COUNTRY	YEAR	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	622	52.7	36.0	40.2	15.3	8.5	50.3	55.2
	2023	1122	56.5	29.3	38.1	16.3	16.3	57.2	55.5
Morocco	2019	1110	51.9	35.3	38.0	15.2	11.6	56.1	48.8
	2023	1957	55.5	31.7	39.5	16.3	12.5	55.6	55.4
South Africa (5)	2019	1686	53.8	36.4	42.5	12.1	9.0	55.2	52.4
	2023	2614	53.3	33.0	37.8	18.8	10.4	55.7	50.9
International Avg. (3)	2019	3418	52.8	35.9	40.2	14.2	9.7	53.8	52.1
	2023	5693	55.1	31.4	38.5	17.1	13.1	56.2	53.9

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

Science: Life Science / Knowing

SP14_01 SP71063: Animals that live in the desert - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	43.4	54.3	41.6	3.8	0.3	39.5	47.3
	2023	1127	50.1	46.2	46.4	5.1	2.3	49.1	50.7
Morocco	2019	1096	49.3	47.6	46.4	5.8	0.2	45.7	52.6
	2023	1955	43.3	54.5	41.6	3.5	0.4	41.6	44.8
South Africa (5)	2019	1687	20.1	68.7	17.3	13.1	0.9	16.2	24.3
	2023	2613	18.3	67.7	15.1	16.8	0.4	16.0	20.9
International Avg. (3)	2019	3411	37.6	56.9	35.1	7.5	0.5	33.8	41.4
	2023	5695	37.2	56.1	34.4	8.4	1.0	35.6	38.8

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

Science: Life Science / Applying
SP14_02 SP71900: 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
Kuwait	2019	626	61.9	8.1	9.8	58.4	17.9	5.4	0.3	67.4	56.5
	2023	1125	51.9	9.3	9.3	48.4	26.1	4.5	2.3	56.6	46.7
Morocco	2019	1096	57.8	5.4	8.8	51.3	23.2	10.9	0.3	56.5	59.0
	2023	1955	50.8	7.6	10.1	47.0	27.9	7.1	0.4	54.9	47.2
South Africa (5)	2019	1687	39.3	11.5	19.1	37.4	27.2	3.8	1.1	39.7	39.0
	2023	2608	38.4	15.2	21.2	37.0	23.0	3.2	0.4	41.5	35.4
International Avg. (3)	2019	3409	53.0	8.3	12.6	49.0	22.8	6.7	0.6	54.5	51.5
	2023	5688	47.0	10.7	13.6	44.1	25.6	4.9	1.0	51.0	43.1

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

Science: Life Science / Reasoning
SP14_04 SP71043: 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
Kuwait	2019	628	14.1	66.7	10.9	21.7	0.7	16.5	11.4
	2023	1121	9.3	57.6	5.9	33.5	3.1	6.5	12.1
Morocco	2019	1096	16.2	59.9	11.6	28.1	0.5	18.6	14.2
	2023	1954	23.6	59.0	18.2	22.1	0.7	25.2	22.1
South Africa (5)	2019	1687	6.1	90.0	5.8	3.1	1.1	5.1	7.1
	2023	2614	6.0	90.8	5.8	2.7	0.8	6.1	5.9
International Avg. (3)	2019	3411	12.1	72.2	9.4	17.6	0.7	13.4	10.9
	2023	5689	12.9	69.1	10.0	19.4	1.5	12.6	13.4

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

Science: Life Science / Applying
SP14_05 SP71005: 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
Kuwait	2019	628	41.5	47.6	33.8	17.7	0.9	47.8	34.5
	2023	1125	53.7	33.8	39.2	23.3	3.8	54.2	53.1
Morocco	2019	1096	31.7	55.7	25.8	17.4	1.1	33.1	30.3
	2023	1953	48.5	42.3	39.8	16.6	1.3	52.1	45.0
South Africa (5)	2019	1687	30.8	66.6	29.6	2.4	1.4	32.7	28.9
	2023	2612	25.1	72.4	24.3	2.4	1.0	27.8	22.4
International Avg. (3)	2019	3411	34.7	56.6	29.8	12.5	1.1	37.9	31.2
	2023	5690	42.4	49.5	34.4	14.1	2.0	44.7	40.2

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

Science: Physical Science / Applying
SP14_06 SP71118: 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
Kuwait	2019	628	35.2	25.0	26.0	33.7	11.2	2.8	1.4	39.6	30.7
	2023	1124	30.4	25.2	24.9	27.4	12.5	5.7	4.3	31.6	29.3
Morocco	2019	1096	34.7	18.0	28.8	32.6	14.4	4.9	1.3	32.7	36.5
	2023	1954	38.0	16.9	27.4	35.5	13.6	4.8	1.9	41.6	34.8
South Africa (5)	2019	1687	17.1	30.2	36.2	16.1	12.0	3.5	1.9	15.1	19.0
	2023	2606	20.6	29.4	35.6	19.8	11.1	2.7	1.4	17.9	23.6
International Avg. (3)	2019	3411	29.0	24.4	30.3	27.5	12.5	3.7	1.5	29.1	28.7
	2023	5684	29.7	23.8	29.3	27.5	12.4	4.4	2.5	30.4	29.2

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

Science: Physical Science / Knowing
SP14_07 SP71139: 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
Kuwait	2019	628	64.8	60.9	14.8	10.4	7.9	4.7	1.4	66.0	63.7
	2023	1124	68.3	60.8	14.4	8.1	5.7	6.3	4.7	71.3	65.1
Morocco	2019	1096	48.6	44.9	13.2	21.1	13.3	6.0	1.6	51.1	46.4
	2023	1954	50.4	46.0	14.9	17.2	13.1	6.3	2.5	52.2	48.8
South Africa (5)	2019	1687	54.7	51.3	16.6	14.2	11.8	3.9	2.2	53.6	55.7
	2023	2599	55.6	52.9	15.7	15.4	11.2	3.0	1.7	58.8	52.2
International Avg. (3)	2019	3411	56.0	52.4	14.8	15.2	11.0	4.8	1.7	56.9	55.3
	2023	5677	58.1	53.2	15.0	13.6	10.0	5.2	3.0	60.8	55.4

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

Science: Physical Science / Knowing

SP14_08 SP71114: Objects Joseph can pick up with a magnet - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	32.9	61.5	30.1	7.0	1.4	35.5	30.2
	2023	1116	32.1	58.0	27.4	9.5	5.1	32.3	31.5
Morocco	2019	1096	35.3	58.1	31.7	8.3	2.0	38.6	32.3
	2023	1955	41.9	52.9	38.2	6.0	2.9	41.9	41.9
South Africa (5)	2019	1687	26.8	60.6	22.2	14.8	2.3	25.4	28.4
	2023	2606	24.0	59.4	18.8	19.7	2.2	24.2	23.8
International Avg. (3)	2019	3411	31.7	60.1	28.0	10.0	1.9	33.2	30.3
	2023	5677	32.7	56.8	28.1	11.7	3.4	32.8	32.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Physical Science / Applying
SP14_09 SP71131: Circuit where the bulb is lit - CR - 1 Point

COUNTRY	YEAR	N	DIFF %	0pt %	1pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	38.2	59.6	36.9	1.7	1.9	44.7	32.0
	2023	1117	23.2	70.8	21.4	2.4	5.4	25.1	21.1
Morocco	2019	1096	48.0	49.9	46.0	1.8	2.3	50.3	46.0
	2023	1955	38.9	58.2	37.1	1.2	3.5	44.6	34.0
South Africa (5)	2019	1687	33.8	63.6	32.4	1.1	2.9	36.6	31.0
	2023	2612	26.1	70.6	24.9	2.0	2.5	30.3	21.9
International Avg. (3)	2019	3411	40.0	57.7	38.4	1.5	2.4	43.9	36.3
	2023	5684	29.4	66.5	27.8	1.9	3.8	33.3	25.7

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

Science: Physical Science / Knowing

SP14_10 SP71152: 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
Kuwait	2019	628	34.9	8.5	32.9	12.1	40.7	3.6	2.1	34.2	35.6
	2023	1124	40.4	8.6	37.1	10.6	35.5	2.6	5.6	38.7	42.1
Morocco	2019	1096	40.7	7.8	36.7	16.0	29.7	7.1	2.7	38.4	42.7
	2023	1955	41.2	6.7	38.6	12.2	36.1	2.8	3.6	39.3	42.9
South Africa (5)	2019	1687	27.2	12.0	25.4	34.9	21.1	3.5	3.1	27.0	27.4
	2023	2607	27.3	14.9	26.2	29.2	25.7	1.6	2.4	25.2	29.3
International Avg. (3)	2019	3411	34.3	9.4	31.7	21.0	30.5	4.7	2.6	33.2	35.2
	2023	5686	36.3	10.1	33.9	17.3	32.5	2.3	3.9	34.4	38.1

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

Science: Earth Science / Knowing
SP14_11 SP71218: How sand dunes move - MC - Key: A

COUNTRY	YEAR	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Kuwait	2019	628	64.3	61.1	10.8	10.6	12.5	1.4	3.6	64.3	64.4
	2023	1124	64.9	59.0	7.9	10.7	13.3	2.7	6.4	67.2	62.2
Morocco	2019	1096	63.9	58.7	9.1	9.5	14.6	4.2	3.9	61.3	66.1
	2023	1955	65.5	60.3	9.5	10.6	11.8	3.2	4.7	68.0	63.3
South Africa (5)	2019	1687	46.7	43.4	20.7	17.5	11.3	1.8	5.3	45.9	47.5
	2023	2603	48.2	46.2	21.7	15.2	12.7	1.1	3.1	52.4	44.1
International Avg. (3)	2019	3411	58.3	54.4	13.5	12.5	12.8	2.5	4.3	57.2	59.3
	2023	5682	59.5	55.2	13.0	12.2	12.6	2.3	4.7	62.6	56.5

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

Science: Earth Science / Applying
SP14_12 SP71214: 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
Kuwait	2019	628	32.6	23.8	17.1	20.6	29.8	5.0	3.7	34.3	31.0
	2023	1124	37.8	22.0	15.7	17.2	33.4	4.9	6.8	38.5	37.0
Morocco	2019	1096	39.0	16.2	16.9	20.0	34.0	8.0	4.9	38.4	39.6
	2023	1955	46.0	14.6	16.9	17.4	41.7	3.9	5.4	47.7	44.5
South Africa (5)	2019	1687	28.4	24.9	24.1	16.5	26.0	2.8	5.7	29.1	27.6
	2023	2600	30.1	23.6	25.4	17.1	28.4	2.3	3.2	30.1	30.1
International Avg. (3)	2019	3411	33.3	21.7	19.4	19.0	29.9	5.3	4.8	33.9	32.7
	2023	5679	38.0	20.1	19.3	17.2	34.5	3.7	5.1	38.8	37.2

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

Science: Earth Science / Knowing

SP14_13 SP71213: 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
Kuwait	2019	628	12.4	74.2	10.5	9.0	6.3	14.8	10.1
	2023	1124	11.1	68.3	8.5	14.1	9.1	11.0	11.3
Morocco	2019	1096	19.9	59.1	14.7	18.4	7.8	20.7	19.1
	2023	1955	19.8	60.4	14.9	17.6	7.0	22.6	17.4
South Africa (5)	2019	1687	3.4	86.6	3.1	4.1	6.3	2.3	4.5
	2023	2613	3.1	88.2	2.8	4.9	4.0	2.8	3.5
International Avg. (3)	2019	3411	11.9	73.3	9.4	10.5	6.8	12.6	11.2
	2023	5692	11.3	72.3	8.8	12.2	6.7	12.1	10.7

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

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