

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
Bulgaria	2019	615	89.5	3.0	87.4	4.0	3.3	1.9	0.4	88.8	90.2
	2023	1025	90.6	2.5	89.2	4.2	2.6	1.5	0.0	90.7	90.5
Cyprus	2019	588	81.2	5.6	80.3	6.5	6.5	0.9	0.2	79.4	83.4
	2023	1203	75.5	6.2	74.2	7.2	10.6	1.5	0.3	74.0	77.1
Iran, Islamic Rep. of	2019	858	75.4	8.0	71.7	5.5	9.9	4.5	0.4	71.2	79.5
	2023	1525	73.0	9.0	66.1	6.1	9.4	7.8	1.7	71.5	74.6
International Avg. (3)	2019	2061	82.0	5.5	79.8	5.3	6.6	2.5	0.3	79.8	84.4
	2023	3753	79.7	5.9	76.5	5.8	7.5	3.6	0.7	78.7	80.7

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

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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
Bulgaria	2019	615	32.1	65.4	30.9	2.7	1.0	31.3	32.9
	2023	1025	48.9	49.4	47.3	3.3	0.1	48.6	49.2
Cyprus	2019	588	38.6	61.0	38.3	0.5	0.2	34.0	44.1
	2023	1203	29.1	68.5	28.1	2.8	0.6	28.2	30.0
Iran, Islamic Rep. of	2019	859	43.7	54.4	42.2	2.8	0.6	39.5	47.6
	2023	1525	32.0	63.2	29.8	5.2	1.8	30.1	34.0
International Avg. (3)	2019	2062	38.1	60.3	37.1	2.0	0.6	34.9	41.6
	2023	3753	36.7	60.4	35.1	3.7	0.8	35.6	37.8

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

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
Bulgaria	2019	615	65.1	60.6	32.6	5.8	1.0	63.8	66.4
	2023	1025	78.1	74.1	20.8	5.0	0.1	78.5	77.7
Cyprus	2019	588	64.1	63.6	35.6	0.6	0.2	62.1	66.6
	2023	1203	54.2	51.8	43.7	3.9	0.6	53.5	55.1
Iran, Islamic Rep. of	2019	859	82.4	73.3	15.6	10.5	0.6	82.1	82.8
	2023	1525	83.2	71.5	14.4	12.3	1.8	82.0	84.5
International Avg. (3)	2019	2062	70.5	65.8	27.9	5.7	0.6	69.3	71.9
	2023	3753	71.9	65.8	26.3	7.1	0.8	71.3	72.4

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
Bulgaria	2019	615	57.5	37.9	51.4	9.7	1.0	57.5	57.5
	2023	1025	65.8	31.8	61.1	7.0	0.1	63.0	68.5
Cyprus	2019	588	52.9	46.3	52.1	1.4	0.2	49.6	56.9
	2023	1203	49.1	48.3	46.6	4.4	0.6	47.1	51.2
Iran, Islamic Rep. of	2019	859	61.1	34.0	53.3	12.1	0.6	58.7	63.3
	2023	1525	48.6	41.6	39.3	17.3	1.8	49.0	48.1
International Avg. (3)	2019	2062	57.2	39.4	52.2	7.7	0.6	55.3	59.2
	2023	3753	54.5	40.6	49.0	9.6	0.8	53.0	55.9

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
Bulgaria	2019	615	84.8	14.0	78.1	6.9	1.0	82.3	87.5
	2023	1025	91.1	8.4	86.0	5.5	0.1	93.9	88.3
Cyprus	2019	588	87.3	12.5	86.0	1.3	0.2	85.7	89.2
	2023	1203	82.9	16.2	78.4	4.8	0.6	82.1	83.6
Iran, Islamic Rep. of	2019	859	91.3	7.6	79.7	12.2	0.6	88.9	93.5
	2023	1525	86.3	11.0	69.2	18.0	1.8	84.6	88.0
International Avg. (3)	2019	2062	87.8	11.4	81.3	6.8	0.6	85.7	90.1
	2023	3753	86.8	11.9	77.9	9.4	0.8	86.9	86.7

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	615	96.1	90.3	3.6	5.1	1.0	95.3	97.0
	2023	1025	97.3	92.4	2.5	5.0	0.1	98.5	96.2
Cyprus	2019	588	96.5	95.8	3.5	0.5	0.2	97.0	95.9
	2023	1203	92.7	89.1	7.0	3.3	0.6	91.3	94.2
Iran, Islamic Rep. of	2019	859	92.6	83.4	6.7	9.3	0.6	89.5	95.5
	2023	1525	88.7	76.3	9.7	12.2	1.8	86.3	91.0
International Avg. (3)	2019	2062	95.1	89.9	4.6	4.9	0.6	93.9	96.1
	2023	3753	92.9	85.9	6.4	6.8	0.8	92.0	93.8

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_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
Bulgaria	2019	615	84.4	4.1	7.9	80.1	2.9	3.9	1.1	87.0	81.7
	2023	1025	79.5	3.4	11.2	77.1	5.4	3.0	0.1	79.1	79.9
Cyprus	2019	588	74.5	5.7	13.2	72.3	5.9	2.7	0.2	72.0	77.5
	2023	1202	70.5	4.7	15.0	65.4	7.7	6.0	1.2	64.5	76.6
Iran, Islamic Rep. of	2019	859	73.4	3.6	10.0	63.0	9.2	13.4	0.8	75.9	71.0
	2023	1525	74.7	2.2	10.0	57.5	7.3	20.7	2.4	74.3	75.1
International Avg. (3)	2019	2062	77.4	4.5	10.4	71.8	6.0	6.7	0.7	78.3	76.7
	2023	3752	74.9	3.4	12.1	66.6	6.8	9.9	1.2	72.6	77.2

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
Bulgaria	2019	615	29.7	41.7	20.4	11.8	25.0	1.1	27.8	31.9
	2023	1025	32.7	39.6	25.7	12.7	21.9	0.1	32.7	32.7
Cyprus	2019	588	23.1	53.9	20.5	9.1	16.1	0.4	19.9	27.1
	2023	1203	21.5	46.3	16.1	6.9	29.3	1.5	18.9	24.0
Iran, Islamic Rep. of	2019	859	14.3	54.1	14.3	3.0	27.4	1.2	13.5	15.1
	2023	1525	14.4	43.7	14.9	1.1	36.5	3.7	14.1	14.6
International Avg. (3)	2019	2062	22.4	49.9	18.4	8.0	22.8	0.9	20.4	24.7
	2023	3753	22.9	43.2	18.9	6.9	29.2	1.8	21.9	23.8

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
Bulgaria	2019	615	30.9	46.0	20.6	32.3	1.1	29.2	32.7
	2023	1025	27.4	52.2	19.7	27.9	0.1	25.8	28.9
Cyprus	2019	588	28.7	57.6	23.2	18.8	0.4	26.2	31.7
	2023	1203	27.4	48.3	18.2	32.1	1.5	23.4	31.0
Iran, Islamic Rep. of	2019	859	20.4	55.4	14.1	29.3	1.2	19.6	21.2
	2023	1525	26.0	42.3	14.9	39.0	3.7	24.8	27.4
International Avg. (3)	2019	2062	26.7	53.0	19.3	26.8	0.9	25.0	28.5
	2023	3753	26.9	47.6	17.6	33.0	1.8	24.7	29.1

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
Bulgaria	2019	615	34.0	45.3	23.3	30.2	1.1	32.4	35.8
	2023	1025	42.7	42.1	31.4	26.4	0.1	43.2	42.2
Cyprus	2019	588	20.5	59.8	15.4	24.4	0.4	16.3	25.5
	2023	1203	19.3	48.7	11.6	38.2	1.5	17.6	20.9
Iran, Islamic Rep. of	2019	859	10.7	51.8	6.2	40.8	1.2	9.2	12.4
	2023	1525	5.1	41.7	2.3	52.3	3.7	6.1	4.0
International Avg. (3)	2019	2062	21.7	52.3	15.0	31.8	0.9	19.3	24.6
	2023	3753	22.4	44.2	15.1	39.0	1.8	22.3	22.3

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 / 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
Bulgaria	2019	615	43.9	53.6	42.0	3.2	1.1	47.6	40.1
	2023	1025	40.7	57.4	39.5	2.6	0.6	42.9	38.7
Cyprus	2019	588	37.1	61.7	36.4	1.3	0.6	39.5	34.3
	2023	1203	36.4	60.6	34.6	1.6	3.3	36.4	36.3
Iran, Islamic Rep. of	2019	859	12.5	84.3	12.0	2.2	1.5	10.2	14.7
	2023	1525	15.1	76.1	13.5	5.9	4.5	16.3	13.9
International Avg. (3)	2019	2062	31.2	66.5	30.1	2.2	1.1	32.4	29.7
	2023	3753	30.7	64.7	29.2	3.3	2.8	31.9	29.6

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
Bulgaria	2019	615	88.8	82.6	10.4	5.8	1.1	90.0	87.5
	2023	1025	85.9	81.1	13.3	5.1	0.6	84.6	87.3
Cyprus	2019	588	86.5	83.3	13.0	3.1	0.6	89.3	83.0
	2023	1203	83.2	78.3	15.8	2.7	3.3	84.4	82.0
Iran, Islamic Rep. of	2019	859	63.8	54.3	30.8	13.3	1.5	60.7	66.5
	2023	1525	71.1	55.4	22.6	17.4	4.5	67.6	74.5
International Avg. (3)	2019	2062	79.7	73.4	18.1	7.4	1.1	80.0	79.0
	2023	3753	80.1	71.6	17.2	8.4	2.8	78.9	81.3

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
Bulgaria	2019	615	78.0	19.7	70.0	9.2	1.1	82.7	73.2
	2023	1025	76.3	22.0	70.8	6.6	0.6	80.1	72.6
Cyprus	2019	588	85.5	14.0	82.5	3.0	0.6	85.9	85.1
	2023	1203	82.2	16.7	77.3	2.7	3.3	83.2	81.2
Iran, Islamic Rep. of	2019	859	66.4	24.8	49.1	24.6	1.5	63.8	68.8
	2023	1525	67.8	22.4	47.1	26.0	4.5	68.3	67.2
International Avg. (3)	2019	2062	76.7	19.5	67.2	12.3	1.1	77.4	75.7
	2023	3753	75.4	20.4	65.1	11.8	2.8	77.2	73.7

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
Bulgaria	2019	615	84.8	77.4	13.9	7.6	1.1	84.7	84.9
	2023	1025	79.1	73.5	19.4	6.5	0.6	78.6	79.6
Cyprus	2019	588	66.2	63.8	32.6	3.1	0.6	66.8	65.6
	2023	1203	68.9	64.9	29.2	2.6	3.3	69.0	68.9
Iran, Islamic Rep. of	2019	859	62.3	45.9	27.8	24.8	1.5	63.0	61.7
	2023	1525	68.0	44.9	21.1	29.4	4.5	69.7	66.4
International Avg. (3)	2019	2062	71.1	62.4	24.7	11.8	1.1	71.5	70.7
	2023	3753	72.0	61.1	23.3	12.9	2.8	72.4	71.6

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
Bulgaria	2019	615	63.8	31.9	56.2	10.8	1.1	66.3	61.2
	2023	1025	61.3	35.2	55.6	8.7	0.6	62.0	60.6
Cyprus	2019	588	68.0	30.5	64.8	4.2	0.6	68.7	67.1
	2023	1203	62.3	34.9	57.6	4.2	3.3	60.0	64.6
Iran, Islamic Rep. of	2019	859	53.0	33.7	38.1	26.7	1.5	49.3	56.4
	2023	1525	52.5	31.2	34.5	29.8	4.5	54.3	50.7
International Avg. (3)	2019	2062	61.6	32.0	53.0	13.9	1.1	61.4	61.6
	2023	3753	58.7	33.7	49.2	14.2	2.8	58.8	58.6

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

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
Bulgaria	2019	615	84.3	14.0	75.3	9.6	1.1	87.3	81.3
	2023	1025	83.4	15.2	76.3	7.9	0.6	85.9	80.9
Cyprus	2019	588	86.3	13.1	82.8	3.5	0.6	88.4	83.7
	2023	1203	83.2	15.7	77.6	3.4	3.3	85.3	81.0
Iran, Islamic Rep. of	2019	859	50.9	37.3	38.8	22.4	1.5	50.9	50.9
	2023	1525	57.8	29.4	40.2	25.8	4.5	57.4	58.1
International Avg. (3)	2019	2062	73.9	21.5	65.6	11.8	1.1	75.5	72.0
	2023	3753	74.8	20.1	64.7	12.4	2.8	76.2	73.3

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
Bulgaria	2019	615	49.1	43.3	41.8	13.5	1.4	49.0	49.3
	2023	1025	46.2	46.3	39.8	12.9	0.9	48.1	44.4
Cyprus	2019	588	63.1	33.8	57.7	8.0	0.6	68.0	56.9
	2023	1203	60.1	32.6	49.1	14.5	3.9	60.9	59.3
Iran, Islamic Rep. of	2019	859	33.8	57.4	29.3	11.9	1.5	31.5	36.1
	2023	1525	28.5	52.9	21.1	20.7	5.2	31.0	25.7
International Avg. (3)	2019	2062	48.7	44.8	42.9	11.1	1.2	49.5	47.4
	2023	3753	44.9	43.9	36.7	16.1	3.3	46.7	43.1

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

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
Bulgaria	2019	615	81.7	78.8	2.4	10.5	4.8	2.1	1.4	79.6	83.8
	2023	1025	82.2	77.5	2.9	8.9	5.0	4.6	1.1	82.3	82.1
Cyprus	2019	588	90.6	88.7	2.2	3.9	3.1	1.4	0.7	89.9	91.4
	2023	1203	88.2	80.7	3.0	4.6	3.2	3.3	5.2	87.8	88.6
Iran, Islamic Rep. of	2019	859	81.4	76.9	2.1	13.4	2.1	3.6	1.9	78.5	84.2
	2023	1525	84.1	73.5	2.0	9.1	2.7	6.7	5.9	81.4	86.9
International Avg. (3)	2019	2062	84.6	81.5	2.2	9.3	3.3	2.4	1.3	82.7	86.5
	2023	3753	84.8	77.2	2.6	7.5	3.6	4.9	4.1	83.8	85.9

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

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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
Bulgaria	2019	615	24.1	72.6	23.1	2.8	1.4	25.9	22.2
	2023	1025	20.7	75.1	19.6	4.0	1.3	17.5	23.7
Cyprus	2019	588	49.2	49.8	48.2	1.0	1.1	48.2	50.3
	2023	1203	42.3	53.3	39.0	1.9	5.8	41.3	43.2
Iran, Islamic Rep. of	2019	859	36.2	61.1	34.7	1.9	2.3	38.3	34.2
	2023	1525	28.7	64.6	26.0	2.9	6.5	28.5	28.8
International Avg. (3)	2019	2062	36.5	61.2	35.3	1.9	1.6	37.5	35.6
	2023	3753	30.5	64.3	28.2	2.9	4.5	29.1	31.9

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
Bulgaria	2019	615	63.2	19.0	59.4	7.8	7.8	4.5	1.4	57.6	68.8
	2023	1025	62.2	18.4	58.4	7.4	9.7	4.8	1.4	60.9	63.5
Cyprus	2019	588	54.8	21.9	52.2	10.5	10.6	3.6	1.2	54.0	55.8
	2023	1203	50.0	23.8	43.6	9.9	9.9	6.3	6.5	43.8	55.9
Iran, Islamic Rep. of	2019	859	31.6	30.1	27.8	16.9	13.4	9.1	2.7	29.7	33.4
	2023	1525	34.2	26.2	27.5	13.9	12.7	12.6	7.1	33.0	35.4
International Avg. (3)	2019	2062	49.9	23.7	46.5	11.7	10.6	5.8	1.8	47.1	52.6
	2023	3753	48.8	22.8	43.1	10.4	10.8	7.9	5.0	45.9	51.6

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

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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
Bulgaria	2019	615	88.6	7.4	2.2	1.6	86.3	1.1	1.4	87.6	89.5
	2023	1025	87.9	6.0	2.1	3.5	84.8	1.9	1.7	86.5	89.3
Cyprus	2019	588	80.9	12.2	2.5	4.0	79.3	0.4	1.6	79.8	82.3
	2023	1203	82.1	8.7	1.8	5.2	72.3	2.5	9.5	80.1	84.2
Iran, Islamic Rep. of	2019	859	88.1	5.1	1.8	4.2	82.5	2.6	3.8	87.6	88.7
	2023	1525	85.4	6.5	1.8	4.2	73.3	5.3	8.9	85.6	85.3
International Avg. (3)	2019	2062	85.9	8.2	2.2	3.3	82.7	1.4	2.3	85.0	86.8
	2023	3753	85.2	7.1	1.9	4.3	76.8	3.2	6.7	84.1	86.2

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
Bulgaria	2019	615	50.4	15.1	22.6	48.6	10.3	2.0	1.4	47.1	53.7
	2023	1025	55.9	9.5	23.7	52.8	8.5	3.6	2.0	54.0	57.8
Cyprus	2019	588	60.8	10.9	20.0	59.3	7.5	0.8	1.6	52.8	70.4
	2023	1203	55.2	11.7	18.8	48.3	8.7	1.9	10.6	53.2	57.3
Iran, Islamic Rep. of	2019	859	45.1	20.3	22.3	41.3	7.7	4.4	4.1	42.1	48.0
	2023	1525	48.1	17.0	19.3	40.7	7.6	6.0	9.4	46.2	50.2
International Avg. (3)	2019	2062	52.1	15.4	21.6	49.7	8.5	2.4	2.4	47.3	57.4
	2023	3753	53.1	12.7	20.6	47.3	8.3	3.9	7.3	51.1	55.1

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
Bulgaria	2019	615	91.1	5.4	88.4	2.1	1.1	1.0	2.0	90.5	91.7
	2023	1025	89.5	8.0	86.4	1.4	0.7	1.3	2.1	91.0	87.9
Cyprus	2019	588	82.8	15.5	80.0	0.7	0.5	1.5	1.9	82.7	82.8
	2023	1203	82.2	13.9	71.9	0.7	0.9	1.4	11.2	79.1	85.3
Iran, Islamic Rep. of	2019	859	92.6	5.6	86.7	1.4	0.0	1.4	5.0	92.2	92.9
	2023	1525	89.1	8.1	77.7	1.2	0.2	2.8	10.0	89.8	88.4
International Avg. (3)	2019	2062	88.8	8.8	85.0	1.4	0.5	1.3	2.9	88.5	89.1
	2023	3753	86.9	10.0	78.7	1.1	0.6	1.8	7.8	86.7	87.2

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
Bulgaria	2019	617	69.2	16.7	8.8	4.7	68.0	1.5	0.3	67.0	70.9
	2023	1027	70.1	17.6	7.3	4.2	68.3	2.3	0.3	72.1	68.4
Cyprus	2019	592	71.2	14.6	7.3	6.6	70.4	0.6	0.5	72.9	69.2
	2023	1208	69.2	14.8	6.2	9.4	68.4	0.8	0.4	68.5	70.0
Iran, Islamic Rep. of	2019	854	63.7	17.5	5.4	12.1	61.5	3.0	0.4	63.3	64.1
	2023	1531	68.3	13.6	3.6	12.4	63.8	5.5	1.0	67.6	68.9
International Avg. (3)	2019	2063	68.0	16.3	7.2	7.8	66.7	1.7	0.4	67.7	68.1
	2023	3766	69.2	15.3	5.7	8.7	66.8	2.9	0.6	69.4	69.1

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
Bulgaria	2019	617	80.9	18.2	76.8	4.7	0.3	79.0	82.4
	2023	1027	78.9	19.9	74.7	5.1	0.3	77.8	79.9
Cyprus	2019	592	77.7	21.4	74.7	3.3	0.6	74.5	81.5
	2023	1208	72.7	25.2	66.9	7.5	0.4	70.9	74.6
Iran, Islamic Rep. of	2019	854	45.3	46.4	38.5	14.4	0.6	38.1	51.7
	2023	1532	42.9	48.5	36.5	13.6	1.4	42.0	43.9
International Avg. (3)	2019	2063	68.0	28.7	63.3	7.5	0.5	63.9	71.9
	2023	3767	64.8	31.2	59.4	8.7	0.7	63.6	66.1

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
Bulgaria	2019	617	73.4	71.8	9.0	14.7	2.3	1.7	0.5	72.0	74.5
	2023	1027	71.6	70.5	7.8	18.6	1.5	1.3	0.3	74.4	69.2
Cyprus	2019	592	62.1	61.3	5.8	27.8	3.9	0.4	0.8	65.5	58.1
	2023	1208	58.0	56.5	7.6	29.9	3.5	2.2	0.4	61.0	54.7
Iran, Islamic Rep. of	2019	854	51.5	47.8	13.5	25.6	5.8	5.9	1.3	52.6	50.6
	2023	1532	57.5	51.9	11.9	21.8	4.6	8.2	1.6	58.4	56.7
International Avg. (3)	2019	2063	62.3	60.3	9.4	22.7	4.0	2.7	0.9	63.4	61.1
	2023	3767	62.4	59.6	9.1	23.4	3.2	3.9	0.8	64.6	60.2

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
Bulgaria	2019	617	41.7	7.5	17.1	40.2	31.7	3.1	0.5	39.0	43.8
	2023	1027	46.8	7.3	12.7	45.1	31.3	3.3	0.3	43.1	50.1
Cyprus	2019	592	15.8	61.8	14.7	15.5	5.8	1.5	0.8	16.3	15.3
	2023	1208	20.1	58.2	12.4	19.7	7.7	1.5	0.4	16.0	24.5
Iran, Islamic Rep. of	2019	854	20.4	50.7	17.1	19.3	7.5	3.3	2.1	18.3	22.4
	2023	1531	24.3	47.6	16.4	22.8	7.1	4.3	1.8	21.3	27.2
International Avg. (3)	2019	2063	26.0	40.0	16.3	25.0	15.0	2.6	1.1	24.5	27.2
	2023	3766	30.4	37.7	13.8	29.2	15.4	3.1	0.8	26.8	33.9

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
Bulgaria	2019	617	51.4	40.6	43.0	15.5	1.0	49.8	52.7
	2023	1027	53.2	41.3	46.9	11.1	0.7	55.0	51.6
Cyprus	2019	592	19.8	67.4	16.6	15.0	0.9	20.2	19.4
	2023	1208	32.5	52.9	25.5	21.1	0.5	35.1	29.7
Iran, Islamic Rep. of	2019	854	35.0	46.5	25.0	25.8	2.6	34.4	35.5
	2023	1531	29.6	49.7	20.8	27.6	1.9	27.5	31.8
International Avg. (3)	2019	2063	35.4	51.5	28.2	18.8	1.5	34.8	35.9
	2023	3766	38.4	48.0	31.1	19.9	1.0	39.2	37.7

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

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
Bulgaria	2019	617	60.6	59.3	18.4	2.4	17.9	1.0	1.0	57.1	63.2
	2023	1027	68.3	65.7	15.3	1.3	13.9	3.1	0.7	66.7	69.7
Cyprus	2019	592	64.4	63.4	13.8	7.6	13.7	0.4	1.1	62.1	67.0
	2023	1208	58.3	56.6	18.4	5.8	16.4	2.1	0.8	56.4	60.2
Iran, Islamic Rep. of	2019	854	58.3	54.9	14.1	1.9	23.2	3.1	2.8	55.2	61.2
	2023	1531	56.1	51.8	15.1	1.9	23.6	5.1	2.6	57.1	55.1
International Avg. (3)	2019	2063	61.1	59.2	15.4	4.0	18.3	1.5	1.6	58.1	63.8
	2023	3766	60.9	58.0	16.3	3.0	17.9	3.4	1.3	60.0	61.7

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

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
Bulgaria	2019	617	87.5	11.1	77.7	10.1	1.0	83.6	90.5
	2023	1027	82.4	15.8	73.7	9.8	0.7	81.1	83.5
Cyprus	2019	592	79.4	18.9	72.8	7.1	1.2	79.7	79.0
	2023	1208	68.3	27.9	60.0	11.3	0.8	67.1	69.6
Iran, Islamic Rep. of	2019	854	42.0	47.4	34.3	15.5	2.8	43.1	41.0
	2023	1532	61.9	30.2	49.1	18.2	2.6	62.4	61.4
International Avg. (3)	2019	2063	69.6	25.8	61.6	10.9	1.7	68.8	70.2
	2023	3767	70.9	24.6	60.9	13.1	1.4	70.2	71.5

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
Bulgaria	2019	617	57.9	15.4	9.2	16.0	55.8	2.4	1.2	56.0	59.3
	2023	1027	59.4	9.7	11.6	18.0	57.5	2.4	0.9	59.5	59.3
Cyprus	2019	592	55.8	14.8	8.8	18.5	53.2	2.2	2.4	57.3	54.0
	2023	1208	57.0	14.7	10.3	16.4	54.8	2.2	1.6	57.2	56.8
Iran, Islamic Rep. of	2019	854	56.2	17.2	4.9	17.5	51.0	5.6	3.7	55.9	56.6
	2023	1532	54.7	18.3	7.8	15.1	49.6	6.1	3.2	56.7	52.7
International Avg. (3)	2019	2063	56.6	15.8	7.7	17.4	53.3	3.4	2.4	56.4	56.6
	2023	3767	57.0	14.2	9.9	16.5	53.9	3.6	1.9	57.8	56.2

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

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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
Bulgaria	2019	617	77.8	17.7	61.9	18.9	1.5	73.6	80.9
	2023	1027	77.0	19.2	64.4	15.5	1.0	73.1	80.5
Cyprus	2019	592	79.5	16.7	64.7	15.1	3.5	74.6	85.1
	2023	1208	69.1	21.7	48.5	27.8	2.0	65.6	72.8
Iran, Islamic Rep. of	2019	855	54.1	34.6	40.8	20.4	4.2	46.4	61.5
	2023	1531	53.3	33.1	37.9	25.5	3.5	49.1	57.4
International Avg. (3)	2019	2064	70.4	23.0	55.8	18.1	3.1	64.9	75.8
	2023	3766	66.5	24.7	50.2	22.9	2.1	62.6	70.2

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

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
Bulgaria	2019	617	64.8	8.7	63.6	16.5	9.3	0.4	1.5	63.0	66.0
	2023	1027	65.6	8.8	63.8	18.9	5.8	1.7	1.1	61.3	69.5
Cyprus	2019	592	81.1	5.1	77.4	9.6	3.4	0.6	4.0	78.6	84.0
	2023	1208	73.8	8.0	70.6	12.8	4.2	1.8	2.5	72.0	75.8
Iran, Islamic Rep. of	2019	855	58.7	12.2	54.7	10.6	15.6	2.3	4.6	57.0	60.3
	2023	1531	55.1	14.9	50.8	13.0	13.5	3.8	4.1	54.1	56.1
International Avg. (3)	2019	2064	68.2	8.7	65.2	12.2	9.4	1.1	3.3	66.2	70.1
	2023	3766	64.8	10.5	61.7	14.9	7.8	2.4	2.6	62.4	67.1

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

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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
Bulgaria	2019	617	41.3	56.1	39.4	3.0	1.5	43.3	39.7
	2023	1027	51.4	45.9	48.6	4.3	1.1	52.5	50.5
Cyprus	2019	592	46.3	50.1	43.2	2.7	4.0	48.6	43.7
	2023	1208	41.6	53.8	38.3	5.2	2.7	38.0	45.3
Iran, Islamic Rep. of	2019	855	37.4	55.4	33.0	7.0	4.6	38.1	36.7
	2023	1532	31.9	61.0	28.5	6.4	4.1	29.9	33.7
International Avg. (3)	2019	2064	41.6	53.9	38.6	4.2	3.3	43.3	40.0
	2023	3767	41.6	53.6	38.5	5.3	2.7	40.2	43.2

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
Bulgaria	2019	617	43.3	12.9	15.0	41.9	26.9	0.6	2.7	36.8	48.3
	2023	1027	41.9	10.1	12.6	40.8	33.8	1.5	1.3	42.8	41.1
Cyprus	2019	592	46.7	8.6	13.3	44.0	28.4	0.6	5.1	46.7	46.6
	2023	1208	36.3	11.6	18.5	35.0	31.2	0.3	3.5	37.8	34.8
Iran, Islamic Rep. of	2019	855	27.3	20.5	16.3	24.9	29.2	2.6	6.4	29.0	25.8
	2023	1532	24.4	27.3	17.4	22.2	24.0	3.4	5.7	24.0	24.8
International Avg. (3)	2019	2064	39.1	14.0	14.9	36.9	28.2	1.3	4.7	37.5	40.2
	2023	3767	34.2	16.3	16.1	32.6	29.6	1.8	3.5	34.9	33.6

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

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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
Bulgaria	2019	620	78.1	6.4	9.3	76.2	5.7	2.3	0.0	80.5	75.9
	2023	1026	78.3	7.3	8.5	77.4	5.5	1.2	0.0	78.6	78.1
Cyprus	2019	586	68.0	9.8	11.1	67.6	10.8	0.3	0.3	66.0	70.1
	2023	1201	61.2	10.2	16.9	59.6	10.8	2.0	0.5	62.3	60.1
Iran, Islamic Rep. of	2019	847	75.2	4.3	13.6	68.5	4.7	8.6	0.4	74.7	75.6
	2023	1534	62.5	5.8	19.0	54.5	7.9	12.1	0.8	63.7	61.3
International Avg. (3)	2019	2053	73.8	6.9	11.3	70.8	7.1	3.7	0.2	73.8	73.9
	2023	3761	67.3	7.8	14.8	63.8	8.1	5.1	0.4	68.2	66.5

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
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
Bulgaria	2019	620	70.8	25.0	60.5	14.5	0.0	72.2	69.6
	2023	1026	70.5	26.0	62.2	11.8	0.0	72.3	68.9
Cyprus	2019	586	66.4	32.1	63.4	4.2	0.3	67.6	65.0
	2023	1201	66.3	31.1	61.2	7.1	0.5	67.6	65.0
Iran, Islamic Rep. of	2019	847	44.2	43.0	34.1	22.3	0.6	45.9	42.7
	2023	1534	50.2	36.1	36.4	26.3	1.2	51.9	48.4
International Avg. (3)	2019	2053	60.5	33.4	52.7	13.7	0.3	61.9	59.1
	2023	3761	62.3	31.1	53.3	15.1	0.6	63.9	60.8

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
Bulgaria	2019	620	58.2	9.1	6.6	24.8	56.3	3.2	0.0	57.3	58.9
	2023	1026	60.9	8.8	5.1	24.3	59.4	2.2	0.2	61.4	60.5
Cyprus	2019	586	48.3	13.8	19.8	17.2	47.4	1.3	0.5	49.0	47.5
	2023	1201	49.7	11.5	14.8	21.2	47.1	4.6	0.8	48.7	50.7
Iran, Islamic Rep. of	2019	847	43.9	12.3	17.6	20.5	39.4	9.4	0.8	44.4	43.5
	2023	1534	48.2	16.0	13.6	13.3	40.0	15.2	1.9	51.3	44.8
International Avg. (3)	2019	2053	50.1	11.7	14.7	20.8	47.7	4.6	0.4	50.2	50.0
	2023	3761	52.9	12.1	11.2	19.6	48.8	7.4	0.9	53.8	52.0

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
Bulgaria	2019	620	56.6	15.3	55.2	12.4	14.5	2.5	0.0	57.1	56.2
	2023	1026	63.3	15.5	61.6	11.0	9.2	2.5	0.2	66.9	60.2
Cyprus	2019	586	51.2	10.9	50.4	19.5	17.7	0.9	0.6	50.3	52.2
	2023	1201	52.0	12.6	49.1	17.8	14.8	4.1	1.5	53.5	50.5
Iran, Islamic Rep. of	2019	847	39.6	24.5	36.2	17.2	13.4	7.5	1.0	38.0	41.1
	2023	1534	42.0	27.1	36.3	15.0	8.0	11.2	2.3	43.5	40.5
International Avg. (3)	2019	2053	49.1	16.9	47.3	16.4	15.2	3.6	0.6	48.5	49.8
	2023	3761	52.4	18.4	49.0	14.6	10.7	5.9	1.3	54.6	50.4

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
Bulgaria	2019	620	32.8	65.5	31.9	2.4	0.3	38.7	27.7
	2023	1026	33.0	64.9	32.0	2.9	0.2	35.8	30.6
Cyprus	2019	586	20.4	76.0	19.5	3.6	0.9	21.9	18.8
	2023	1201	18.0	75.6	16.6	5.7	2.1	20.7	15.4
Iran, Islamic Rep. of	2019	847	12.8	82.1	12.0	4.6	1.3	12.7	12.8
	2023	1534	18.3	74.3	16.6	6.5	2.6	19.6	16.9
International Avg. (3)	2019	2053	22.0	74.5	21.1	3.5	0.8	24.4	19.7
	2023	3761	23.1	71.6	21.7	5.0	1.7	25.4	21.0

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
Bulgaria	2019	620	58.8	57.6	9.4	13.6	17.5	1.6	0.3	61.6	56.3
	2023	1026	55.4	53.1	8.8	18.2	15.6	4.0	0.2	55.9	55.0
Cyprus	2019	586	67.5	65.6	14.1	7.7	9.8	1.6	1.2	65.7	69.4
	2023	1201	54.4	51.0	14.4	13.8	14.5	3.8	2.5	56.0	52.9
Iran, Islamic Rep. of	2019	847	30.5	28.3	32.7	15.4	16.4	5.5	1.7	30.3	30.7
	2023	1534	27.2	23.7	21.8	25.9	15.6	9.9	3.1	27.8	26.7
International Avg. (3)	2019	2053	52.2	50.5	18.7	12.2	14.6	2.9	1.1	52.6	52.1
	2023	3761	45.7	42.6	15.0	19.3	15.3	5.9	1.9	46.5	44.9

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
Bulgaria	2019	620	33.6	64.3	32.5	2.9	0.3	37.6	30.1
	2023	1026	32.2	65.6	31.1	3.1	0.2	36.1	28.7
Cyprus	2019	586	27.6	68.9	26.3	3.3	1.5	24.5	31.0
	2023	1201	21.4	72.8	19.8	4.3	3.1	22.8	20.1
Iran, Islamic Rep. of	2019	847	16.9	77.7	15.8	3.9	2.6	15.4	18.4
	2023	1534	23.1	69.6	20.9	5.9	3.6	23.9	22.4
International Avg. (3)	2019	2053	26.0	70.3	24.9	3.4	1.5	25.8	26.5
	2023	3761	25.6	69.3	24.0	4.4	2.3	27.6	23.7

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
Bulgaria	2019	620	83.3	15.7	78.4	5.6	0.3	85.3	81.6
	2023	1026	90.0	9.3	83.4	7.0	0.4	89.5	90.4
Cyprus	2019	586	85.3	14.0	81.0	2.9	2.1	88.9	81.4
	2023	1201	81.8	16.8	75.3	4.0	3.9	81.1	82.4
Iran, Islamic Rep. of	2019	847	48.4	46.9	43.9	6.2	3.0	48.8	48.0
	2023	1534	44.0	47.3	37.2	10.5	5.0	49.8	38.1
International Avg. (3)	2019	2053	72.3	25.5	67.8	4.9	1.8	74.3	70.3
	2023	3761	71.9	24.4	65.3	7.2	3.1	73.5	70.3

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
Bulgaria	2019	620	65.0	34.3	63.7	1.7	0.3	71.8	59.3
	2023	1026	69.7	29.4	67.5	2.4	0.7	72.3	67.4
Cyprus	2019	586	81.4	17.7	77.7	1.5	3.0	80.0	82.9
	2023	1201	75.7	22.3	69.3	3.4	5.1	77.3	74.1
Iran, Islamic Rep. of	2019	847	61.3	36.0	57.2	2.9	3.9	62.5	60.3
	2023	1534	55.8	39.4	49.8	3.9	6.9	60.4	51.3
International Avg. (3)	2019	2053	69.3	29.3	66.2	2.1	2.4	71.4	67.5
	2023	3761	67.1	30.4	62.2	3.2	4.2	70.0	64.2

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
Bulgaria	2019	620	54.0	27.9	12.1	33.8	25.7	0.6	58.2	50.5
	2023	1026	61.8	21.1	14.9	38.6	24.7	0.8	62.6	61.0
Cyprus	2019	586	21.7	51.8	13.2	9.6	21.3	4.1	19.8	23.5
	2023	1201	27.9	42.0	11.9	12.6	26.9	6.5	25.9	30.0
Iran, Islamic Rep. of	2019	847	39.6	39.8	5.6	25.2	24.5	5.0	34.6	43.9
	2023	1534	40.0	34.1	4.3	22.0	31.8	7.7	38.5	41.6
International Avg. (3)	2019	2053	38.4	39.8	10.3	22.8	23.8	3.2	37.6	39.3
	2023	3761	43.2	32.4	10.4	24.4	27.8	5.0	42.3	44.2

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
Bulgaria	2019	620	66.8	13.4	62.9	7.3	10.7	4.3	1.5	70.1	63.8
	2023	1026	71.7	11.9	66.2	5.9	8.3	5.3	2.4	70.2	72.9
Cyprus	2019	586	56.3	17.3	50.6	7.6	14.5	4.0	6.1	51.4	61.6
	2023	1201	50.2	19.2	43.0	7.7	15.8	5.7	8.5	49.0	51.3
Iran, Islamic Rep. of	2019	847	46.9	19.5	37.6	10.3	12.8	11.5	8.3	43.4	49.7
	2023	1534	43.2	18.0	31.5	8.8	14.6	16.3	10.8	42.0	44.5
International Avg. (3)	2019	2053	56.6	16.7	50.4	8.4	12.6	6.6	5.3	55.0	58.4
	2023	3761	55.0	16.4	46.9	7.5	12.9	9.1	7.3	53.7	56.3

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
Bulgaria	2019	620	56.7	19.0	54.7	9.5	13.1	1.2	2.4	53.8	59.2
	2023	1026	59.4	18.3	56.7	12.0	8.5	2.1	2.5	57.2	61.3
Cyprus	2019	586	48.0	14.9	44.6	16.1	17.2	0.8	6.4	39.9	56.8
	2023	1201	51.5	14.7	46.3	14.8	14.1	1.3	8.8	50.0	53.1
Iran, Islamic Rep. of	2019	847	53.0	21.2	45.2	10.6	8.3	5.1	9.6	53.1	52.9
	2023	1534	51.9	19.4	42.9	12.5	7.8	5.4	12.0	52.7	51.0
International Avg. (3)	2019	2053	52.6	18.4	48.1	12.1	12.9	2.4	6.1	49.0	56.3
	2023	3761	54.3	17.5	48.6	13.1	10.2	2.9	7.7	53.3	55.1

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
Bulgaria	2019	610	67.2	11.4	41.7	45.0	1.9	0.0	66.4	68.0
	2023	1015	67.2	11.1	41.8	44.6	2.5	0.1	67.1	67.3
Cyprus	2019	574	58.7	19.3	43.0	36.5	0.7	0.5	59.0	58.4
	2023	1208	54.9	19.8	48.3	29.4	2.3	0.3	55.9	54.0
Iran, Islamic Rep. of	2019	852	47.0	20.9	59.0	15.2	3.0	2.0	47.9	46.2
	2023	1516	43.0	25.2	57.2	12.0	4.6	1.1	42.6	43.5
International Avg. (3)	2019	2036	57.6	17.2	47.9	32.2	1.9	0.8	57.7	57.5
	2023	3739	55.1	18.7	49.1	28.7	3.1	0.5	55.2	54.9

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

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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
Bulgaria	2019	610	90.0	2.8	1.6	5.2	86.6	3.8	0.0	90.5	89.4
	2023	1015	91.9	1.3	3.3	3.1	87.7	4.5	0.1	91.9	91.9
Cyprus	2019	574	80.7	1.0	5.4	12.5	79.1	1.5	0.5	81.1	80.2
	2023	1208	78.2	0.3	8.4	12.2	74.9	3.9	0.3	77.1	79.2
Iran, Islamic Rep. of	2019	853	93.0	1.2	2.4	2.7	84.5	7.2	2.0	96.0	90.4
	2023	1516	91.5	1.9	2.8	2.9	81.9	9.3	1.1	92.4	90.6
International Avg. (3)	2019	2037	87.9	1.7	3.2	6.8	83.4	4.1	0.8	89.2	86.7
	2023	3739	87.2	1.2	4.8	6.1	81.5	5.9	0.5	87.1	87.2

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
Bulgaria	2019	610	62.6	28.3	3.1	58.5	3.6	6.5	0.0	61.7	63.4
	2023	1015	61.2	29.8	1.7	57.8	5.1	5.4	0.1	60.3	62.0
Cyprus	2019	574	55.9	27.5	1.9	54.5	13.7	1.9	0.5	54.5	57.4
	2023	1208	46.4	33.5	2.8	44.1	14.7	4.5	0.3	50.6	42.3
Iran, Islamic Rep. of	2019	852	32.9	55.7	2.1	28.8	0.9	10.4	2.0	30.8	34.7
	2023	1516	26.5	58.9	2.8	22.9	1.8	12.5	1.1	24.2	29.0
International Avg. (3)	2019	2036	50.4	37.2	2.4	47.3	6.1	6.3	0.8	49.0	51.8
	2023	3739	44.7	40.7	2.4	41.6	7.2	7.5	0.5	45.0	44.4

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	610	98.7	0.4	92.2	0.2	0.6	6.6	0.0	98.3	99.1
	2023	1015	95.5	2.2	91.6	1.0	1.1	4.0	0.1	95.2	95.7
Cyprus	2019	574	94.6	0.9	92.3	1.6	2.7	2.0	0.5	95.2	94.0
	2023	1208	95.2	1.3	92.2	0.9	2.5	2.9	0.3	95.6	94.8
Iran, Islamic Rep. of	2019	853	94.9	2.1	85.1	1.7	0.7	8.3	2.0	97.8	92.3
	2023	1516	92.6	3.8	81.5	2.3	0.4	10.8	1.1	94.3	90.8
International Avg. (3)	2019	2037	96.1	1.2	89.9	1.2	1.3	5.7	0.8	97.1	95.1
	2023	3739	94.4	2.4	88.4	1.4	1.3	5.9	0.5	95.0	93.8

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

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
Bulgaria	2019	610	94.7	88.8	0.7	3.0	1.3	6.2	0.0	93.9	95.5
	2023	1015	93.8	88.9	0.4	3.6	1.9	5.0	0.1	93.4	94.0
Cyprus	2019	574	92.0	89.6	0.8	2.0	5.0	2.2	0.5	93.4	90.5
	2023	1208	89.4	85.9	0.5	2.9	6.8	3.6	0.3	91.6	87.3
Iran, Islamic Rep. of	2019	853	94.2	84.0	1.0	2.7	1.5	8.9	2.0	95.6	92.9
	2023	1516	93.9	82.1	0.5	3.2	1.6	11.4	1.1	94.2	93.6
International Avg. (3)	2019	2037	93.6	87.5	0.8	2.5	2.6	5.8	0.8	94.3	93.0
	2023	3739	92.3	85.7	0.5	3.2	3.4	6.7	0.5	93.1	91.6

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

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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
Bulgaria	2019	610	77.2	0.1	2.4	18.5	71.4	7.5	0.0	77.8	76.5
	2023	1015	76.2	1.2	1.4	19.9	72.1	5.3	0.1	76.3	76.1
Cyprus	2019	574	65.2	0.7	1.8	31.0	62.9	3.1	0.5	65.0	65.4
	2023	1208	64.7	0.3	1.1	32.0	61.2	5.1	0.3	64.0	65.3
Iran, Islamic Rep. of	2019	853	54.7	0.9	2.0	36.8	47.9	10.5	2.0	54.7	54.6
	2023	1516	50.1	1.2	1.6	39.9	43.0	13.2	1.1	46.3	54.3
International Avg. (3)	2019	2037	65.7	0.6	2.1	28.8	60.7	7.0	0.8	65.9	65.5
	2023	3739	63.7	0.9	1.4	30.6	58.8	7.8	0.5	62.2	65.3

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
Bulgaria	2019	610	91.6	1.6	0.7	87.5	5.7	4.5	0.0	92.0	91.2
	2023	1015	92.0	2.0	0.8	87.1	4.8	5.2	0.1	92.5	91.6
Cyprus	2019	574	88.8	0.3	1.1	86.8	9.5	1.8	0.5	88.6	89.1
	2023	1208	88.8	0.4	1.2	85.5	9.1	3.4	0.3	88.7	89.0
Iran, Islamic Rep. of	2019	853	82.8	0.6	1.2	72.5	13.3	10.4	2.0	82.5	83.0
	2023	1516	79.7	1.8	2.2	67.5	13.2	14.1	1.1	78.5	80.9
International Avg. (3)	2019	2037	87.7	0.8	1.0	82.3	9.5	5.6	0.8	87.7	87.8
	2023	3739	86.8	1.4	1.4	80.1	9.0	7.6	0.5	86.6	87.2

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
Bulgaria	2019	610	59.3	36.0	52.4	11.6	0.0	65.1	52.8
	2023	1015	62.2	33.7	55.4	10.5	0.4	66.0	58.6
Cyprus	2019	574	76.2	22.6	72.2	4.8	0.5	76.3	76.0
	2023	1208	76.0	22.5	71.3	5.6	0.6	76.6	75.5
Iran, Islamic Rep. of	2019	853	35.5	59.7	32.8	5.5	2.1	37.4	33.7
	2023	1516	42.3	51.6	37.8	9.0	1.5	44.8	39.5
International Avg. (3)	2019	2037	57.0	39.4	52.5	7.3	0.8	59.6	54.2
	2023	3739	60.2	35.9	54.8	8.4	0.8	62.5	57.9

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
Bulgaria	2019	610	57.1	9.0	56.2	24.1	9.2	1.3	0.2	53.6	60.5
	2023	1015	62.0	8.0	59.6	19.6	8.9	3.3	0.6	62.7	61.5
Cyprus	2019	574	48.9	10.6	47.9	28.9	10.5	1.4	0.8	43.4	54.8
	2023	1208	49.7	12.4	47.7	25.0	10.9	3.2	0.9	47.9	51.5
Iran, Islamic Rep. of	2019	853	43.4	14.2	38.7	25.7	10.6	8.6	2.2	37.2	48.8
	2023	1516	43.4	12.0	37.1	23.9	12.5	12.5	2.1	41.1	45.7
International Avg. (3)	2019	2037	49.8	11.2	47.6	26.2	10.1	3.8	1.1	44.7	54.7
	2023	3739	51.7	10.8	48.1	22.8	10.8	6.3	1.2	50.6	52.9

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

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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
Bulgaria	2019	610	59.5	33.3	48.9	17.5	0.2	60.9	57.9
	2023	1015	58.9	34.3	49.0	16.1	0.6	55.8	61.5
Cyprus	2019	574	48.1	47.2	43.7	8.1	1.1	45.7	50.7
	2023	1208	37.6	52.7	31.8	14.2	1.2	35.9	39.4
Iran, Islamic Rep. of	2019	853	20.8	62.5	16.4	18.4	2.7	21.3	20.3
	2023	1516	25.0	51.0	17.0	29.2	2.8	24.6	25.4
International Avg. (3)	2019	2037	42.8	47.7	36.3	14.7	1.3	42.6	43.0
	2023	3739	40.5	46.0	32.6	19.8	1.5	38.7	42.1

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
Bulgaria	2019	610	68.4	10.4	11.7	9.0	67.4	1.2	0.2	74.0	62.9
	2023	1015	69.8	6.6	14.5	8.3	68.0	1.9	0.7	70.2	69.4
Cyprus	2019	574	57.5	10.4	13.2	18.0	56.3	0.7	1.4	59.7	55.1
	2023	1208	59.4	11.1	11.6	16.3	56.9	2.5	1.6	61.6	57.2
Iran, Islamic Rep. of	2019	853	66.7	6.2	13.7	10.6	60.9	5.6	3.1	68.6	64.9
	2023	1516	60.7	7.4	15.6	12.2	54.2	7.5	3.1	63.2	57.9
International Avg. (3)	2019	2037	64.2	9.0	12.8	12.5	61.5	2.5	1.6	67.5	61.0
	2023	3739	63.3	8.4	13.9	12.3	59.7	3.9	1.8	65.0	61.5

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
Bulgaria	2019	610	55.3	12.5	2.6	29.2	54.9	0.4	0.4	50.9	59.6
	2023	1015	58.6	8.2	4.1	28.2	57.3	1.3	0.9	55.0	61.6
Cyprus	2019	574	29.7	10.2	12.8	45.7	29.0	0.6	1.7	28.1	31.4
	2023	1208	27.9	19.9	13.2	36.3	26.9	1.2	2.5	24.5	31.3
Iran, Islamic Rep. of	2019	853	15.0	7.2	64.2	7.4	13.9	2.9	4.4	13.5	16.4
	2023	1516	16.9	14.7	53.2	7.8	15.4	5.1	3.8	13.7	20.3
International Avg. (3)	2019	2037	33.3	10.0	26.5	27.4	32.6	1.3	2.2	30.8	35.8
	2023	3739	34.5	14.3	23.5	24.1	33.2	2.5	2.4	31.1	37.7

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

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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
Bulgaria	2019	610	65.7	29.8	56.9	12.9	0.4	59.8	71.6
	2023	1015	70.1	26.3	61.7	11.1	0.9	63.6	75.7
Cyprus	2019	574	67.0	30.6	62.0	5.7	1.7	62.9	71.3
	2023	1208	67.1	28.9	58.9	9.6	2.5	61.2	72.7
Iran, Islamic Rep. of	2019	853	57.9	38.0	52.4	4.8	4.7	55.0	60.7
	2023	1516	56.9	36.6	48.3	11.0	4.0	56.6	57.1
International Avg. (3)	2019	2037	63.5	32.8	57.1	7.8	2.3	59.2	67.9
	2023	3739	64.7	30.6	56.3	10.6	2.5	60.4	68.5

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

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
Bulgaria	2019	610	55.4	27.3	53.2	9.1	6.5	3.6	0.4	50.2	60.5
	2023	1015	57.4	22.9	55.0	10.5	7.5	2.8	1.3	57.5	57.3
Cyprus	2019	574	69.8	19.9	67.5	6.0	3.3	1.4	2.0	65.2	74.8
	2023	1208	68.7	19.7	64.0	5.7	3.7	3.5	3.3	67.9	69.5
Iran, Islamic Rep. of	2019	853	79.2	12.2	71.6	4.3	2.3	4.5	5.0	76.6	81.6
	2023	1516	72.1	13.8	64.7	7.1	4.2	5.5	4.8	69.7	74.5
International Avg. (3)	2019	2037	68.1	19.8	64.1	6.4	4.0	3.2	2.5	64.0	72.3
	2023	3739	66.1	18.8	61.2	7.8	5.1	3.9	3.1	65.0	67.1

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

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
Bulgaria	2019	610	43.1	55.3	41.8	2.5	0.4	40.9	45.3
	2023	1015	40.9	55.4	38.3	4.7	1.6	40.6	41.2
Cyprus	2019	574	44.6	52.8	42.6	2.2	2.4	39.1	50.6
	2023	1208	43.9	50.7	39.7	5.7	3.9	41.8	46.0
Iran, Islamic Rep. of	2019	853	31.2	59.6	27.0	8.0	5.5	33.5	28.9
	2023	1516	29.2	58.3	24.1	12.2	5.4	28.9	29.6
International Avg. (3)	2019	2037	39.6	55.9	37.1	4.2	2.7	37.8	41.6
	2023	3739	38.0	54.8	34.0	7.5	3.6	37.1	38.9

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

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
Bulgaria	2019	610	84.7	80.8	14.6	4.2	0.4	84.2	85.2
	2023	1015	86.4	79.8	12.6	6.1	1.6	86.4	86.4
Cyprus	2019	574	86.0	81.5	13.3	2.8	2.4	83.1	89.1
	2023	1208	86.4	77.3	12.1	6.6	3.9	87.3	85.6
Iran, Islamic Rep. of	2019	853	87.3	67.1	9.7	17.7	5.5	88.9	85.6
	2023	1516	84.7	61.9	11.2	21.5	5.4	83.4	86.1
International Avg. (3)	2019	2037	86.0	76.5	12.5	8.2	2.7	85.4	86.6
	2023	3739	85.8	73.0	12.0	11.4	3.6	85.7	86.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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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
Bulgaria	2019	610	74.5	24.1	70.3	5.3	0.4	70.9	78.1
	2023	1015	71.8	25.8	65.6	7.0	1.6	74.1	69.7
Cyprus	2019	574	72.6	25.6	67.8	4.2	2.4	67.8	77.7
	2023	1208	73.7	23.1	64.8	8.2	3.9	74.4	73.1
Iran, Islamic Rep. of	2019	853	80.3	13.3	54.2	27.0	5.5	78.7	82.0
	2023	1516	74.7	16.8	49.6	28.3	5.4	73.6	76.0
International Avg. (3)	2019	2037	75.8	21.0	64.1	12.2	2.7	72.5	79.3
	2023	3739	73.4	21.9	60.0	14.5	3.6	74.0	72.9

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

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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
Bulgaria	2019	610	71.2	26.8	66.4	6.4	0.4	71.8	70.6
	2023	1015	71.2	26.1	64.4	7.9	1.6	68.5	73.5
Cyprus	2019	574	74.0	24.3	69.2	4.1	2.4	70.7	77.5
	2023	1208	77.3	19.7	67.1	9.2	3.9	76.2	78.4
Iran, Islamic Rep. of	2019	853	72.9	18.0	48.6	27.9	5.5	77.2	68.8
	2023	1516	73.8	16.6	46.6	31.4	5.4	76.1	71.1
International Avg. (3)	2019	2037	72.7	23.1	61.4	12.8	2.7	73.2	72.3
	2023	3739	74.1	20.8	59.4	16.2	3.6	73.6	74.3

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	610	86.1	80.6	13.1	6.0	0.4	87.9	84.2
	2023	1015	84.8	77.0	13.8	7.6	1.6	85.3	84.3
Cyprus	2019	574	74.2	68.7	23.9	4.9	2.4	71.7	76.8
	2023	1208	77.2	67.8	20.0	8.3	3.9	77.1	77.4
Iran, Islamic Rep. of	2019	853	73.1	53.9	19.8	20.8	5.5	73.6	72.7
	2023	1516	74.1	50.2	17.6	26.8	5.4	74.0	74.1
International Avg. (3)	2019	2037	77.8	67.7	18.9	10.6	2.7	77.7	77.9
	2023	3739	78.7	65.0	17.1	14.2	3.6	78.8	78.6

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

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
Bulgaria	2019	610	73.0	71.4	15.8	4.0	6.6	1.9	0.4	73.1	72.9
	2023	1015	67.3	64.6	21.2	2.4	7.8	2.2	1.7	64.9	69.3
Cyprus	2019	574	73.2	68.3	16.1	4.3	4.5	2.3	4.4	72.8	73.6
	2023	1208	72.6	66.2	19.1	2.7	3.3	3.1	5.7	72.4	72.7
Iran, Islamic Rep. of	2019	853	82.8	74.7	8.0	4.5	3.1	2.5	7.2	81.1	84.3
	2023	1516	80.6	71.4	9.7	4.6	2.9	3.8	7.5	80.2	80.9
International Avg. (3)	2019	2037	76.3	71.5	13.3	4.3	4.7	2.2	4.0	75.7	76.9
	2023	3739	73.5	67.4	16.6	3.2	4.7	3.0	5.0	72.5	74.3

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

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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
Bulgaria	2019	610	55.3	53.6	12.1	11.6	19.6	2.3	0.8	50.0	60.6
	2023	1015	59.6	56.8	9.6	12.4	16.4	2.3	2.4	59.5	59.7
Cyprus	2019	574	42.3	39.8	19.5	15.8	19.1	1.1	4.7	38.5	46.2
	2023	1208	45.5	40.2	14.9	15.4	17.9	4.6	6.9	40.5	50.3
Iran, Islamic Rep. of	2019	853	41.6	35.6	19.5	13.6	16.9	6.1	8.2	38.5	44.4
	2023	1516	44.8	37.4	16.2	13.2	16.7	6.4	10.2	42.7	47.1
International Avg. (3)	2019	2037	46.4	43.0	17.0	13.6	18.6	3.2	4.6	42.4	50.4
	2023	3739	50.0	44.8	13.6	13.7	17.0	4.4	6.5	47.6	52.3

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

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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
Bulgaria	2019	610	33.6	59.5	30.1	9.4	1.1	37.6	29.3
	2023	1015	49.2	45.5	44.0	8.1	2.4	53.6	45.3
Cyprus	2019	574	30.5	62.6	27.4	4.9	5.1	28.5	32.5
	2023	1208	33.3	57.1	28.5	5.9	8.5	34.2	32.4
Iran, Islamic Rep. of	2019	853	31.7	55.2	25.7	8.8	10.3	34.7	28.9
	2023	1516	27.4	56.1	21.2	10.5	12.2	26.7	28.2
International Avg. (3)	2019	2037	31.9	59.1	27.7	7.7	5.5	33.6	30.2
	2023	3739	36.6	52.9	31.2	8.2	7.7	38.2	35.3

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	597	48.3	47.8	9.2	5.5	36.5	0.9	0.1	40.1	56.7
	2023	1007	42.3	41.7	8.1	6.0	42.8	1.2	0.2	40.1	44.0
Cyprus	2019	571	42.6	42.1	9.9	4.2	42.7	1.0	0.2	40.6	44.7
	2023	1210	40.3	38.5	10.1	3.9	43.0	3.0	1.5	39.2	41.4
Iran, Islamic Rep. of	2019	853	28.8	27.1	14.3	12.5	40.3	4.0	1.8	29.7	27.9
	2023	1523	32.4	30.2	13.0	9.6	40.3	4.9	1.9	36.6	28.0
International Avg. (3)	2019	2021	39.9	39.0	11.1	7.4	39.8	2.0	0.7	36.8	43.1
	2023	3740	38.3	36.8	10.4	6.5	42.0	3.0	1.2	38.6	37.8

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
Bulgaria	2019	597	73.7	9.6	7.1	9.3	72.8	1.0	0.2	72.0	75.4
	2023	1007	72.9	7.3	9.2	10.1	71.4	1.8	0.3	74.3	71.7
Cyprus	2019	571	52.9	14.4	14.7	17.2	52.1	1.2	0.4	51.1	55.0
	2023	1210	48.4	14.8	18.2	15.7	45.8	3.1	2.4	46.8	50.0
Iran, Islamic Rep. of	2019	853	43.8	13.8	16.7	20.8	40.0	5.7	2.9	45.9	41.9
	2023	1523	44.9	15.5	15.7	18.1	40.2	7.6	2.8	46.6	43.1
International Avg. (3)	2019	2021	56.8	12.6	12.9	15.8	55.0	2.6	1.2	56.3	57.4
	2023	3740	55.4	12.5	14.4	14.6	52.4	4.2	1.8	55.9	54.9

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

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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
Bulgaria	2019	597	61.4	33.5	53.2	13.2	0.2	65.7	56.7
	2023	1007	56.7	37.5	49.0	13.2	0.3	58.8	54.8
Cyprus	2019	571	57.3	40.0	53.8	5.7	0.4	60.7	53.7
	2023	1210	55.2	39.4	48.4	9.7	2.5	57.2	53.3
Iran, Islamic Rep. of	2019	853	50.7	43.1	44.4	9.3	3.2	54.3	47.4
	2023	1523	53.7	35.7	41.4	19.8	3.1	55.3	52.0
International Avg. (3)	2019	2021	56.5	38.9	50.5	9.4	1.2	60.2	52.6
	2023	3740	55.2	37.5	46.3	14.2	2.0	57.1	53.3

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

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
Bulgaria	2019	597	56.7	12.5	19.0	55.1	10.6	2.6	0.2	56.1	57.2
	2023	1007	63.6	8.7	16.0	60.7	10.2	3.8	0.7	62.1	64.7
Cyprus	2019	571	58.2	9.6	23.3	56.3	7.4	2.3	1.0	54.9	61.8
	2023	1210	54.1	10.1	25.0	49.6	7.0	4.9	3.3	48.0	59.8
Iran, Islamic Rep. of	2019	853	54.0	13.6	15.8	48.5	11.9	6.3	4.0	52.5	55.4
	2023	1523	55.0	12.8	15.9	48.6	11.0	7.2	4.5	53.7	56.5
International Avg. (3)	2019	2021	56.3	11.9	19.4	53.3	10.0	3.7	1.7	54.5	58.2
	2023	3740	57.6	10.5	18.9	53.0	9.4	5.3	2.8	54.6	60.3

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

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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
Bulgaria	2019	597	34.9	17.5	31.4	13.7	33.6	3.6	0.3	37.0	32.7
	2023	1007	43.4	15.3	25.5	12.4	40.8	4.7	1.3	40.2	46.1
Cyprus	2019	571	26.4	16.6	38.0	14.5	24.8	4.7	1.4	27.7	25.0
	2023	1210	30.5	15.9	32.8	13.1	27.1	6.0	5.1	27.9	33.0
Iran, Islamic Rep. of	2019	853	10.9	27.1	22.8	24.9	9.2	9.8	6.3	10.2	11.6
	2023	1523	12.7	24.9	20.3	24.2	10.1	14.5	6.0	11.8	13.7
International Avg. (3)	2019	2021	24.1	20.4	30.7	17.7	22.5	6.0	2.7	25.0	23.1
	2023	3740	28.9	18.7	26.2	16.6	26.0	8.4	4.1	26.6	30.9

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 / 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
Bulgaria	2019	597	64.2	27.9	50.0	21.7	0.4	64.2	64.2
	2023	1007	70.0	22.5	52.5	23.7	1.3	70.1	69.9
Cyprus	2019	571	40.1	45.5	30.4	21.9	2.2	43.7	35.9
	2023	1210	35.2	43.9	23.8	26.8	5.4	33.1	37.1
Iran, Islamic Rep. of	2019	853	42.9	45.3	34.1	12.8	7.8	44.1	41.9
	2023	1522	51.1	34.8	36.4	21.8	7.1	57.6	43.3
International Avg. (3)	2019	2021	49.1	39.6	38.2	18.8	3.5	50.7	47.3
	2023	3739	52.1	33.7	37.6	24.1	4.6	53.6	50.1

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
Bulgaria	2019	597	51.7	16.4	52.9	19.5	10.6	0.7	50.2	53.4
	2023	1007	57.1	15.5	43.6	27.8	11.3	1.7	56.2	57.8
Cyprus	2019	571	59.3	16.8	40.5	33.7	5.8	3.3	60.1	58.4
	2023	1210	57.5	19.5	34.1	32.5	7.2	6.7	57.2	57.8
Iran, Islamic Rep. of	2019	853	37.3	29.6	41.0	9.3	11.5	8.6	37.2	37.4
	2023	1523	43.5	21.9	39.7	12.2	18.6	7.7	43.9	42.9
International Avg. (3)	2019	2021	49.4	20.9	44.8	20.8	9.3	4.2	49.1	49.7
	2023	3740	52.7	19.0	39.1	24.2	12.4	5.4	52.5	52.8

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
Bulgaria	2019	597	68.1	26.5	56.5	16.0	0.9	72.6	63.5
	2023	1007	64.4	29.6	53.6	14.8	1.9	65.9	63.1
Cyprus	2019	571	42.5	45.5	33.6	17.4	3.5	39.2	46.3
	2023	1210	32.7	48.3	23.5	20.6	7.6	27.4	37.8
Iran, Islamic Rep. of	2019	853	33.4	49.0	24.6	17.0	9.3	32.1	34.6
	2023	1523	37.8	42.0	25.5	24.1	8.4	37.9	37.7
International Avg. (3)	2019	2021	48.0	40.3	38.3	16.8	4.6	48.0	48.1
	2023	3740	45.0	40.0	34.2	19.9	6.0	43.7	46.2

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
Bulgaria	2019	597	52.8	11.9	49.9	26.4	6.3	3.9	1.5	54.5	51.0
	2023	1007	53.7	11.3	50.9	29.9	2.6	3.3	2.0	54.6	53.1
Cyprus	2019	571	28.2	25.2	25.8	35.4	5.3	2.2	6.1	28.1	28.3
	2023	1210	36.6	21.8	31.6	29.0	3.9	3.6	10.1	37.6	35.7
Iran, Islamic Rep. of	2019	853	69.8	6.7	58.7	17.2	1.5	6.0	9.9	72.8	67.0
	2023	1523	60.2	8.1	50.6	23.1	2.2	6.8	9.2	60.7	59.7
International Avg. (3)	2019	2021	50.2	14.6	44.8	26.3	4.4	4.0	5.8	51.8	48.8
	2023	3740	50.2	13.7	44.4	27.3	2.9	4.6	7.1	51.0	49.5

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
Bulgaria	2019	597	51.8	48.1	15.5	15.7	13.6	5.3	1.7	54.6	48.9
	2023	1007	45.5	40.7	10.8	16.6	21.4	8.3	2.2	49.7	42.1
Cyprus	2019	571	29.3	26.2	28.7	12.0	22.3	4.2	6.6	30.5	28.0
	2023	1210	24.6	20.1	25.0	10.7	25.8	7.5	10.8	25.9	23.5
Iran, Islamic Rep. of	2019	853	55.0	44.4	15.8	9.4	11.2	8.3	10.9	54.2	55.7
	2023	1523	49.1	39.3	19.7	7.9	13.2	9.5	10.4	51.9	45.9
International Avg. (3)	2019	2021	45.4	39.6	20.0	12.4	15.7	5.9	6.4	46.4	44.2
	2023	3740	39.7	33.4	18.5	11.7	20.1	8.5	7.8	42.5	37.2

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

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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
Bulgaria	2019	597	76.4	20.3	66.0	11.9	1.7	76.3	76.6
	2023	1007	66.4	28.6	56.5	12.5	2.3	69.0	64.1
Cyprus	2019	571	56.0	37.0	47.2	8.4	7.4	56.2	55.9
	2023	1210	51.4	37.1	39.3	11.7	11.9	50.5	52.2
Iran, Islamic Rep. of	2019	853	56.8	28.7	37.8	21.7	11.8	48.1	64.9
	2023	1523	53.4	29.1	33.4	25.8	11.8	50.3	57.0
International Avg. (3)	2019	2021	63.1	28.7	50.3	14.0	7.0	60.2	65.8
	2023	3740	57.1	31.6	43.1	16.7	8.7	56.6	57.8

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
Bulgaria	2019	597	73.1	22.5	61.1	14.0	2.4	75.5	70.5
	2023	1007	72.2	23.1	59.9	14.0	3.0	78.7	66.7
Cyprus	2019	571	61.1	31.3	49.1	10.1	9.5	64.1	57.5
	2023	1210	50.8	35.8	37.0	13.4	13.8	56.5	45.5
Iran, Islamic Rep. of	2019	853	61.5	27.8	44.5	13.3	14.4	62.3	60.9
	2023	1523	58.4	26.5	37.2	22.8	13.5	60.0	56.4
International Avg. (3)	2019	2021	65.2	27.2	51.6	12.4	8.8	67.3	63.0
	2023	3740	60.5	28.4	44.7	16.8	10.1	65.1	56.2

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
Bulgaria	2019	597	68.0	63.9	10.8	11.6	7.6	3.2	2.9	65.7	70.3
	2023	1007	71.6	66.9	9.9	9.1	7.6	3.4	3.1	70.4	72.5
Cyprus	2019	571	79.4	70.5	10.0	4.8	3.4	0.8	10.4	79.4	79.4
	2023	1210	76.3	63.5	10.9	6.2	2.7	1.8	14.9	75.7	76.8
Iran, Islamic Rep. of	2019	853	74.7	61.2	10.4	4.4	5.9	2.8	15.2	73.3	76.0
	2023	1523	73.0	59.3	12.7	4.5	4.7	4.7	14.2	72.8	73.3
International Avg. (3)	2019	2021	74.0	65.2	10.4	7.0	5.7	2.3	9.5	72.8	75.2
	2023	3740	73.6	63.2	11.2	6.6	5.0	3.3	10.7	73.0	74.2

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
Bulgaria	2019	606	52.0	46.0	49.9	4.0	0.0	53.5	50.8
	2023	1028	59.2	39.6	57.6	2.3	0.4	58.5	59.9
Cyprus	2019	577	58.2	41.3	57.4	1.2	0.2	54.9	61.8
	2023	1211	50.8	48.1	49.6	1.4	0.9	44.6	56.5
Iran, Islamic Rep. of	2019	847	29.0	67.8	27.7	4.0	0.5	25.7	32.1
	2023	1534	31.1	63.9	28.9	5.8	1.5	26.8	35.5
International Avg. (3)	2019	2030	46.4	51.7	45.0	3.1	0.2	44.7	48.2
	2023	3773	47.1	50.5	45.4	3.2	0.9	43.3	50.6

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
Bulgaria	2019	606	51.4	48.3	51.2	0.4	0.0	58.7	45.1
	2023	1028	43.0	56.2	42.4	1.0	0.4	46.9	39.5
Cyprus	2019	577	67.0	32.4	65.8	1.4	0.3	73.8	59.5
	2023	1211	58.4	40.6	57.0	1.3	1.0	63.7	53.5
Iran, Islamic Rep. of	2019	847	26.4	72.7	26.1	0.5	0.6	33.2	20.0
	2023	1535	41.6	56.0	39.9	2.4	1.7	46.1	37.1
International Avg. (3)	2019	2030	48.3	51.2	47.7	0.8	0.3	55.3	41.5
	2023	3774	47.7	50.9	46.4	1.6	1.0	52.2	43.4

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
Bulgaria	2019	606	38.2	10.9	37.0	15.2	33.9	3.0	0.0	33.2	42.4
	2023	1028	45.9	10.3	43.7	9.9	31.3	4.5	0.4	45.5	46.2
Cyprus	2019	577	58.6	14.0	57.1	13.1	13.2	1.8	0.8	59.1	58.2
	2023	1211	49.8	17.1	47.6	13.3	17.7	3.1	1.3	45.8	53.3
Iran, Islamic Rep. of	2019	847	20.6	27.7	17.3	12.0	26.9	15.4	0.8	20.7	20.6
	2023	1535	23.9	27.3	19.0	11.4	21.7	18.6	2.1	21.4	26.5
International Avg. (3)	2019	2030	39.1	17.5	37.1	13.4	24.7	6.7	0.5	37.7	40.4
	2023	3774	39.8	18.2	36.7	11.5	23.5	8.7	1.3	37.6	42.0

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
Bulgaria	2019	606	45.0	44.7	36.5	18.9	0.0	48.7	41.6
	2023	1028	45.9	41.4	35.1	22.7	0.8	47.1	44.8
Cyprus	2019	577	32.2	57.1	27.2	14.5	1.2	30.7	34.0
	2023	1211	28.0	55.8	21.7	20.7	1.8	25.3	30.3
Iran, Islamic Rep. of	2019	847	29.6	50.6	21.3	27.2	0.9	29.3	29.9
	2023	1535	36.2	41.9	23.8	30.7	3.7	33.0	39.7
International Avg. (3)	2019	2030	35.6	50.8	28.3	20.2	0.7	36.3	35.2
	2023	3774	36.7	46.4	26.8	24.7	2.1	35.1	38.3

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
Bulgaria	2019	606	77.1	5.7	13.6	75.3	3.0	2.3	0.0	80.0	74.6
	2023	1028	81.8	6.2	8.1	79.0	3.2	2.5	1.0	82.3	81.4
Cyprus	2019	577	79.7	10.7	6.1	77.6	2.8	1.5	1.2	77.8	81.8
	2023	1211	80.3	7.2	7.9	75.5	3.4	3.7	2.2	76.8	83.5
Iran, Islamic Rep. of	2019	847	68.8	7.6	13.5	55.1	3.9	18.7	1.2	71.2	66.4
	2023	1535	66.1	7.0	13.5	48.9	4.6	21.7	4.3	68.9	63.2
International Avg. (3)	2019	2030	75.2	8.0	11.1	69.3	3.2	7.5	0.8	76.4	74.3
	2023	3774	76.1	6.8	9.8	67.8	3.7	9.3	2.5	76.0	76.0

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
Bulgaria	2019	606	55.1	34.3	3.0	7.1	54.3	1.3	0.2	50.2	59.3
	2023	1028	60.6	29.1	3.3	5.9	58.7	2.0	1.0	54.1	66.3
Cyprus	2019	577	55.6	33.3	2.7	7.7	54.7	0.3	1.4	54.1	57.3
	2023	1211	55.2	28.3	6.3	8.0	52.5	2.1	2.9	48.2	61.6
Iran, Islamic Rep. of	2019	847	62.9	13.4	12.8	8.4	58.8	5.0	1.5	62.7	63.1
	2023	1535	61.6	12.4	14.0	7.8	55.0	5.8	5.0	61.0	62.2
International Avg. (3)	2019	2030	57.9	27.0	6.2	7.7	55.9	2.2	1.0	55.7	59.9
	2023	3774	59.1	23.3	7.8	7.2	55.4	3.3	3.0	54.5	63.4

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

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
Bulgaria	2019	606	78.7	18.9	69.6	11.4	0.2	76.8	80.3
	2023	1028	77.2	19.9	67.4	11.3	1.4	79.4	75.2
Cyprus	2019	577	70.6	26.7	64.0	7.8	1.5	70.2	70.9
	2023	1211	70.7	24.5	59.3	12.7	3.5	71.0	70.5
Iran, Islamic Rep. of	2019	847	66.7	27.2	54.5	16.5	1.8	71.8	61.5
	2023	1535	74.7	18.8	55.7	20.0	5.5	77.5	71.7

International Avg. (3)	2019	2030	72.0	24.3	62.7	11.9	1.2	73.0	70.9
	2023	3774	74.2	21.1	60.8	14.7	3.5	76.0	72.5

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

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
Bulgaria	2019	606	75.0	3.1	18.1	73.1	3.2	2.3	0.3	76.0	74.2
	2023	1028	74.1	3.8	19.2	71.3	1.9	2.4	1.5	74.7	73.6
Cyprus	2019	577	57.2	5.1	32.3	54.5	3.5	2.8	1.8	54.0	60.6
	2023	1211	60.6	5.9	26.6	56.4	4.1	2.5	4.5	57.1	63.9
Iran, Islamic Rep. of	2019	847	71.1	7.6	16.8	65.9	2.4	4.7	2.6	74.2	68.1
	2023	1535	70.7	5.5	17.7	62.7	2.7	4.9	6.4	69.8	71.7
International Avg. (3)	2019	2030	67.8	5.3	22.4	64.5	3.0	3.3	1.6	68.1	67.6
	2023	3774	68.5	5.1	21.2	63.5	2.9	3.3	4.1	67.2	69.7

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

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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
Bulgaria	2019	606	43.5	5.8	10.1	39.1	42.3	2.3	0.4	41.9	44.8
	2023	1028	37.0	4.4	14.2	41.7	35.4	2.9	1.5	37.3	36.7
Cyprus	2019	577	56.9	2.1	5.1	34.0	54.4	1.5	2.9	55.2	58.7
	2023	1211	51.9	4.3	4.8	35.7	48.4	1.6	5.2	50.3	53.4
Iran, Islamic Rep. of	2019	847	61.6	3.2	5.5	25.7	55.3	7.0	3.3	60.1	63.1
	2023	1535	57.8	6.0	6.9	23.2	49.6	6.8	7.4	59.9	55.7
International Avg. (3)	2019	2030	54.0	3.7	6.9	32.9	50.7	3.6	2.2	52.4	55.5
	2023	3774	48.9	4.9	8.6	33.5	44.5	3.8	4.7	49.2	48.6

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
Bulgaria	2019	606	53.2	19.5	52.0	11.5	14.7	1.9	0.4	53.5	52.9
	2023	1028	45.0	16.7	43.4	15.9	20.5	1.8	1.7	42.2	47.3
Cyprus	2019	577	54.6	16.6	52.5	11.0	16.0	0.7	3.2	50.9	58.6
	2023	1211	42.3	19.4	38.8	15.5	18.1	2.3	5.9	39.1	45.3
Iran, Islamic Rep. of	2019	847	55.4	17.3	51.5	13.6	10.6	2.9	4.1	51.1	59.3
	2023	1535	52.5	15.6	45.4	13.3	12.0	5.6	8.1	49.0	56.2
International Avg. (3)	2019	2030	54.4	17.8	52.0	12.0	13.7	1.8	2.6	51.8	57.0
	2023	3774	46.6	17.2	42.5	14.9	16.9	3.2	5.2	43.4	49.6

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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	606	66.7	27.4	54.8	16.8	1.0	60.8	71.8
	2023	1028	65.6	27.5	52.4	17.8	2.4	62.8	68.2
Cyprus	2019	577	76.1	20.5	65.5	10.5	3.5	71.9	80.7
	2023	1211	68.1	24.5	52.3	16.4	6.8	63.8	72.0
Iran, Islamic Rep. of	2019	847	25.9	57.0	19.9	17.6	5.5	23.5	28.2
	2023	1535	45.3	37.9	31.3	22.1	8.8	40.8	50.0
International Avg. (3)	2019	2030	56.2	34.9	46.7	15.0	3.4	52.0	60.3
	2023	3774	59.7	29.9	45.3	18.8	6.0	55.8	63.4

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
Bulgaria	2019	606	60.8	58.3	18.5	11.6	7.5	1.9	2.3	61.0	60.7
	2023	1028	72.5	68.4	15.2	7.7	3.0	2.3	3.4	73.6	71.5
Cyprus	2019	577	59.6	55.3	19.5	12.8	5.0	2.4	5.0	61.7	57.4
	2023	1211	57.2	50.2	21.1	11.8	4.6	2.9	9.5	51.2	62.8
Iran, Islamic Rep. of	2019	847	57.6	49.0	20.5	11.2	4.4	6.0	8.9	59.6	55.7
	2023	1535	57.4	45.8	19.8	9.5	4.7	9.0	11.2	60.0	54.6
International Avg. (3)	2019	2030	59.4	54.2	19.5	11.9	5.6	3.4	5.4	60.8	57.9
	2023	3774	62.4	54.8	18.7	9.7	4.1	4.7	8.0	61.6	63.0

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

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
Bulgaria	2019 2023	619 1043	56.7 74.5	38.7 23.0	50.7 67.4	10.4 9.5	0.2 0.1	61.9 79.7	52.7 69.7
Cyprus	2019 2023	574 1207	58.9 83.9	38.8 14.8	55.6 77.0	4.5 6.5	1.1 1.7	58.8 84.5	59.1 83.2
Iran, Islamic Rep. of	2019 2023	852 1525	55.2 73.1	38.4 21.2	47.2 57.6	12.2 19.0	2.3 2.1	62.0 73.9	48.5 72.2
International Avg. (3)	2019 2023	2045 3775	56.9 77.1	38.6 19.7	51.2 67.3	9.0 11.7	1.2 1.3	60.9 79.3	53.4 75.0

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
Bulgaria	2019	619	65.2	34.7	64.9	0.0	0.4	78.0	55.5
	2023	1043	67.8	31.6	66.7	1.3	0.4	71.7	64.3
Cyprus	2019	574	78.4	20.8	75.5	2.6	1.1	85.1	70.9
	2023	1207	74.0	25.1	71.3	1.3	2.2	76.8	71.2
Iran, Islamic Rep. of	2019	852	68.4	30.2	65.3	2.1	2.5	75.2	62.2
	2023	1525	59.9	38.5	57.6	1.7	2.2	64.7	55.2
International Avg. (3)	2019	2045	70.6	28.6	68.5	1.6	1.3	79.4	62.9
	2023	3775	67.2	31.7	65.2	1.5	1.6	71.1	63.5

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
Bulgaria	2019	619	52.9	46.4	52.1	1.0	0.4	55.7	50.7
	2023	1043	58.2	41.0	57.0	1.6	0.4	58.7	57.7
Cyprus	2019	574	76.2	23.1	74.0	1.4	1.6	80.0	72.1
	2023	1207	66.8	31.8	63.9	1.9	2.5	67.1	66.5
Iran, Islamic Rep. of	2019	852	43.6	53.5	41.4	1.9	3.2	48.7	39.0
	2023	1525	38.7	58.2	36.7	2.6	2.4	41.9	35.5
International Avg. (3)	2019	2045	57.6	41.0	55.8	1.4	1.7	61.5	53.9
	2023	3775	54.6	43.6	52.5	2.0	1.8	55.9	53.2

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
Bulgaria	2019	619	28.9	56.5	23.0	19.8	0.7	25.0	32.4
	2023	1043	41.1	47.9	33.4	18.3	0.4	37.3	44.7
Cyprus	2019	574	47.9	42.1	38.8	16.8	2.3	51.5	44.0
	2023	1207	32.6	50.7	24.5	21.4	3.3	26.7	38.3
Iran, Islamic Rep. of	2019	852	31.6	50.0	23.1	23.1	3.8	28.5	34.6
	2023	1525	43.3	38.4	29.4	28.7	3.5	41.5	45.3
International Avg. (3)	2019	2045	36.1	49.6	28.3	19.9	2.3	35.0	37.0
	2023	3775	39.0	45.7	29.1	22.8	2.4	35.2	42.8

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
Bulgaria	2019	619	61.6	9.2	7.6	20.2	59.3	2.4	1.4	60.4	62.4
	2023	1043	60.5	7.2	9.0	22.0	58.4	3.0	0.4	65.6	55.7
Cyprus	2019	574	40.8	20.0	10.0	25.4	38.2	3.1	3.2	42.5	39.0
	2023	1207	42.6	13.4	10.6	27.4	38.2	5.4	4.9	42.5	42.6
Iran, Islamic Rep. of	2019	852	39.2	11.0	20.8	21.3	34.3	7.7	4.9	38.3	40.1
	2023	1525	37.9	11.0	16.2	25.1	32.0	10.5	5.2	37.1	38.8
International Avg. (3)	2019	2045	47.2	13.4	12.8	22.3	43.9	4.4	3.1	47.1	47.2
	2023	3775	47.0	10.5	12.0	24.9	42.9	6.3	3.5	48.4	45.7

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
Bulgaria	2019	619	43.7	14.4	18.7	40.8	19.4	5.3	1.4	42.7	44.5
	2023	1043	51.3	11.6	13.3	49.3	21.8	3.5	0.4	53.3	49.4
Cyprus	2019	574	46.6	16.1	14.6	43.1	18.8	3.5	4.0	43.3	50.1
	2023	1207	50.6	12.3	13.8	44.4	17.2	6.3	5.9	52.7	48.5
Iran, Islamic Rep. of	2019	852	43.0	14.1	12.4	36.8	22.2	9.0	5.5	43.6	42.4
	2023	1525	42.2	16.2	10.3	35.4	22.0	10.3	5.7	41.3	43.0
International Avg. (3)	2019	2045	44.4	14.9	15.2	40.2	20.1	5.9	3.6	43.2	45.7
	2023	3775	48.0	13.4	12.5	43.0	20.4	6.7	4.0	49.1	47.0

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
Bulgaria	2019	619	75.7	13.4	71.9	7.3	2.3	3.4	1.6	74.5	76.7
	2023	1043	78.0	11.5	74.7	7.0	2.6	3.6	0.6	78.6	77.4
Cyprus	2019	574	84.5	4.5	79.9	8.0	2.1	1.2	4.3	85.1	84.0
	2023	1207	84.0	4.9	76.1	7.1	2.5	2.6	6.9	85.8	82.3
Iran, Islamic Rep. of	2019	852	77.6	6.0	69.3	9.5	4.5	4.4	6.3	80.4	75.1
	2023	1525	74.2	8.0	65.4	10.0	4.6	5.0	6.8	73.8	74.7
International Avg. (3)	2019	2045	79.3	8.0	73.7	8.3	3.0	3.0	4.1	80.0	78.6
	2023	3775	78.8	8.1	72.1	8.0	3.2	3.7	4.8	79.4	78.1

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
Bulgaria	2019	619	77.5	73.7	4.7	8.1	8.7	3.1	1.7	78.9	76.4
	2023	1043	77.0	74.1	5.3	10.2	6.7	3.0	0.7	73.4	80.3
Cyprus	2019	574	59.3	53.1	5.7	14.8	16.0	5.7	4.7	61.2	57.0
	2023	1207	57.0	48.3	4.5	14.0	17.9	7.5	7.8	52.0	61.9
Iran, Islamic Rep. of	2019	851	33.2	23.9	8.0	8.7	31.4	20.6	7.4	30.8	35.5
	2023	1525	33.8	23.2	8.5	12.4	24.6	23.6	7.7	36.6	30.8
International Avg. (3)	2019	2044	56.6	50.2	6.1	10.5	18.7	9.8	4.6	57.0	56.3
	2023	3775	55.9	48.5	6.1	12.2	16.4	11.4	5.4	54.0	57.7

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
Bulgaria	2019	619	49.6	21.9	47.2	17.6	8.6	3.0	1.7	48.1	50.7
	2023	1043	57.0	16.4	54.0	16.0	8.3	4.6	0.7	53.6	60.2
Cyprus	2019	574	36.9	24.3	33.2	21.4	11.1	4.3	5.6	39.5	34.1
	2023	1207	37.6	20.9	31.5	20.2	11.2	6.6	9.6	37.4	37.7
Iran, Islamic Rep. of	2019	852	43.5	25.5	35.7	13.8	7.0	9.0	9.0	45.3	41.9
	2023	1525	37.6	28.8	29.9	13.4	7.6	10.7	9.7	36.0	39.1
International Avg. (3)	2019	2045	43.3	23.9	38.7	17.6	8.9	5.5	5.4	44.3	42.2
	2023	3775	44.1	22.0	38.4	16.5	9.0	7.3	6.7	42.4	45.7

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
Bulgaria	2019	619	25.9	68.7	24.1	5.3	2.0	26.2	25.7
	2023	1043	28.3	67.4	26.6	4.8	1.1	26.5	29.9
Cyprus	2019	574	25.6	68.0	23.4	2.2	6.3	23.4	28.1
	2023	1207	28.6	60.6	24.3	3.9	11.1	26.1	31.0
Iran, Islamic Rep. of	2019	852	22.9	63.4	18.9	6.9	10.8	20.8	24.9
	2023	1525	23.2	62.7	18.9	7.4	11.0	20.3	26.1
International Avg. (3)	2019	2045	24.8	66.7	22.1	4.8	6.4	23.5	26.2
	2023	3775	26.7	63.6	23.3	5.4	7.8	24.3	29.0

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
Bulgaria	2019	619	54.2	47.5	40.1	10.4	2.0	49.6	57.9
	2023	1043	57.5	52.0	38.4	8.5	1.1	56.1	58.7
Cyprus	2019	574	50.5	46.0	45.1	2.5	6.3	49.4	51.7
	2023	1207	57.6	48.6	35.8	4.6	11.1	56.3	58.8
Iran, Islamic Rep. of	2019	852	71.3	54.9	22.0	12.3	10.8	73.4	69.3
	2023	1525	65.6	49.9	26.2	12.8	11.0	65.0	66.2
International Avg. (3)	2019	2045	58.7	49.5	35.8	8.4	6.4	57.5	59.7
	2023	3775	60.2	50.2	33.5	8.6	7.8	59.1	61.2

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

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
Bulgaria	2019	619	75.9	21.3	67.1	9.5	2.0	69.8	80.7
	2023	1043	79.5	18.4	71.5	9.0	1.1	77.6	81.2
Cyprus	2019	574	73.9	23.6	66.9	3.2	6.3	70.2	78.1
	2023	1207	76.5	19.7	64.1	5.1	11.1	74.6	78.4
Iran, Islamic Rep. of	2019	852	68.8	24.0	52.8	12.4	10.8	65.1	72.2
	2023	1525	71.0	22.0	53.8	13.2	11.0	69.5	72.6
International Avg. (3)	2019	2045	72.9	23.0	62.3	8.4	6.4	68.4	77.0
	2023	3775	75.7	20.0	63.1	9.1	7.8	73.9	77.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: 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
Bulgaria	2019	619	80.1	71.5	17.7	8.8	2.0	80.7	79.7
	2023	1043	83.2	75.1	15.1	8.6	1.1	84.0	82.6
Cyprus	2019	574	78.5	71.0	19.5	3.2	6.3	77.4	79.7
	2023	1207	79.1	66.1	17.4	5.4	11.1	75.5	82.6
Iran, Islamic Rep. of	2019	852	68.8	52.5	23.8	12.8	10.8	68.8	68.9
	2023	1525	70.9	53.3	21.9	13.8	11.0	70.0	71.9
International Avg. (3)	2019	2045	75.8	65.0	20.3	8.3	6.4	75.6	76.1
	2023	3775	77.8	64.8	18.1	9.3	7.8	76.5	79.0

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

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
Bulgaria	2019	619	69.3	61.4	27.2	9.4	2.0	65.0	72.7
	2023	1043	71.4	63.8	25.6	9.5	1.1	70.7	72.0
Cyprus	2019	574	66.8	60.2	29.9	3.6	6.3	63.6	70.3
	2023	1207	68.6	57.3	26.3	5.3	11.1	67.3	69.8
Iran, Islamic Rep. of	2019	852	59.8	44.7	30.0	14.4	10.8	54.4	64.9
	2023	1525	64.3	47.1	26.1	15.9	11.0	59.3	69.7
International Avg. (3)	2019	2045	65.3	55.4	29.0	9.1	6.4	61.0	69.3
	2023	3775	68.1	56.0	26.0	10.2	7.8	65.8	70.5

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

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
Bulgaria	2019	619	41.8	52.0	37.4	5.3	5.3	41.6	42.0
	2023	1043	51.7	43.8	47.0	4.6	4.6	51.1	52.3
Cyprus	2019	574	28.1	62.9	24.6	4.9	7.5	32.7	23.0
	2023	1207	29.1	57.4	23.6	5.1	14.0	26.0	32.1
Iran, Islamic Rep. of	2019	852	27.9	56.7	21.9	6.5	14.9	27.5	28.2
	2023	1525	24.9	54.8	18.1	11.8	15.3	22.8	27.1
International Avg. (3)	2019	2045	32.6	57.2	28.0	5.6	9.2	33.9	31.1
	2023	3775	35.2	52.0	29.6	7.2	11.3	33.3	37.2

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
Bulgaria	2019	619	81.3	69.4	16.0	9.3	5.3	82.3	80.4
	2023	1043	83.5	74.1	14.7	6.6	4.6	84.1	82.9
Cyprus	2019	574	58.5	50.9	36.1	5.5	7.5	62.0	54.7
	2023	1207	58.9	47.3	33.0	5.8	14.0	56.6	61.0
Iran, Islamic Rep. of	2019	852	75.5	56.2	18.2	10.8	14.9	73.9	77.1
	2023	1525	73.4	50.8	18.4	15.5	15.3	71.4	75.6
International Avg. (3)	2019	2045	71.8	58.8	23.4	8.5	9.2	72.7	70.7
	2023	3775	71.9	57.4	22.0	9.3	11.3	70.7	73.1

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
Bulgaria	2019	619	65.8	29.0	55.7	10.1	5.3	63.2	67.7
	2023	1043	74.3	22.6	65.5	7.2	4.6	72.7	75.8
Cyprus	2019	574	53.5	39.9	46.0	6.5	7.5	55.9	51.0
	2023	1207	58.3	32.9	46.0	7.2	14.0	58.2	58.5
Iran, Islamic Rep. of	2019	852	60.2	29.7	44.9	10.6	14.9	57.3	62.9
	2023	1525	61.5	26.0	41.4	17.3	15.3	57.9	65.2
International Avg. (3)	2019	2045	59.8	32.9	48.8	9.1	9.2	58.8	60.5
	2023	3775	64.7	27.2	51.0	10.6	11.3	62.9	66.5

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
Bulgaria	2019	619	82.1	69.5	15.2	10.0	5.3	81.2	82.7
	2023	1043	84.7	73.8	13.4	8.2	4.6	83.1	86.2
Cyprus	2019	574	79.0	68.6	18.2	5.6	7.5	81.0	76.8
	2023	1207	82.9	66.0	13.6	6.4	14.0	80.8	85.0
Iran, Islamic Rep. of	2019	852	61.1	45.3	28.9	10.9	14.9	56.1	65.8
	2023	1525	61.1	40.5	25.8	18.4	15.3	56.1	66.4
International Avg. (3)	2019	2045	74.1	61.2	20.8	8.8	9.2	72.8	75.1
	2023	3775	76.2	60.1	17.6	11.0	11.3	73.3	79.2

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
Bulgaria	2019	619	70.2	25.2	59.3	10.2	5.3	66.5	73.0
	2023	1043	77.3	19.7	66.8	8.9	4.6	74.7	79.6
Cyprus	2019	574	68.8	27.0	59.5	5.9	7.5	66.6	71.2
	2023	1207	69.9	23.7	55.0	7.4	14.0	66.2	73.4
Iran, Islamic Rep. of	2019	852	60.4	27.3	41.8	16.0	14.9	66.2	55.1
	2023	1525	53.9	29.1	34.0	21.7	15.3	51.9	55.9
International Avg. (3)	2019	2045	66.5	26.5	53.5	10.7	9.2	66.5	66.4
	2023	3775	67.0	24.1	51.9	12.7	11.3	64.3	69.6

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
Bulgaria	2019	614	48.2	51.0	47.4	1.2	0.4	40.0	55.9
	2023	1031	44.2	54.1	42.9	2.9	0.0	42.7	45.7
Cyprus	2019	574	53.0	46.5	52.5	1.0	0.0	47.6	58.5
	2023	1194	56.9	42.1	55.5	1.5	0.9	51.2	62.3
Iran, Islamic Rep. of	2019	864	47.7	51.2	46.6	1.6	0.7	44.9	50.3
	2023	1524	50.0	47.9	47.8	3.2	1.2	48.1	51.8
International Avg. (3)	2019	2052	49.6	49.5	48.8	1.3	0.4	44.1	54.9
	2023	3749	50.4	48.0	48.8	2.5	0.7	47.4	53.2

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
Bulgaria	2019	614	76.6	6.5	6.0	74.2	10.2	2.7	0.4	79.6	73.8
	2023	1031	78.7	4.5	8.2	77.7	8.3	1.4	0.0	80.5	77.1
Cyprus	2019	574	84.8	2.0	3.3	81.3	9.3	4.2	0.0	84.5	85.1
	2023	1194	79.1	4.0	5.0	75.2	10.9	4.0	0.9	79.3	79.0
Iran, Islamic Rep. of	2019	864	46.5	10.1	7.1	42.8	32.0	7.3	0.8	50.5	42.9
	2023	1524	50.8	7.8	6.5	45.5	29.9	9.1	1.3	49.6	52.0
International Avg. (3)	2019	2052	69.3	6.2	5.5	66.1	17.1	4.7	0.4	71.5	67.3
	2023	3749	69.5	5.4	6.5	66.1	16.4	4.8	0.7	69.8	69.4

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
Bulgaria	2019	614	37.9	52.7	32.2	14.5	0.6	38.6	37.2
	2023	1031	46.0	47.7	40.6	11.6	0.2	44.1	47.8
Cyprus	2019	574	37.7	56.0	33.9	9.9	0.2	35.8	39.7
	2023	1194	31.6	59.0	27.3	11.8	1.9	28.9	34.1
Iran, Islamic Rep. of	2019	864	11.3	68.6	8.8	21.5	1.1	9.1	13.5
	2023	1524	4.6	64.4	3.1	30.6	2.0	4.4	4.7
International Avg. (3)	2019	2052	29.0	59.1	25.0	15.3	0.6	27.8	30.1
	2023	3749	27.4	57.0	23.6	18.0	1.4	25.8	28.9

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
Bulgaria	2019	614	86.4	12.8	80.8	5.2	1.2	87.3	85.5
	2023	1031	87.3	11.7	80.3	7.7	0.3	88.7	85.9
Cyprus	2019	574	84.7	14.4	79.8	5.4	0.4	87.2	82.2
	2023	1194	62.7	33.3	56.0	8.1	2.6	61.6	63.7
Iran, Islamic Rep. of	2019	864	62.8	33.9	57.3	7.0	1.8	58.7	66.9
	2023	1524	69.3	25.8	58.4	13.0	2.8	71.2	67.3
International Avg. (3)	2019	2052	78.0	20.4	72.7	5.8	1.1	77.7	78.2
	2023	3749	73.1	23.6	64.9	9.6	1.9	73.8	72.3

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
Bulgaria	2019	614	59.0	9.5	23.5	56.7	6.4	2.7	1.2	56.7	61.2
	2023	1031	62.9	11.8	19.4	61.4	4.9	2.2	0.3	64.2	61.7
Cyprus	2019	574	49.1	21.9	19.4	47.4	7.8	2.4	1.1	50.9	47.2
	2023	1194	49.0	18.2	19.1	44.5	8.9	6.1	3.2	44.4	53.4
Iran, Islamic Rep. of	2019	864	35.7	18.9	22.8	31.7	15.5	8.7	2.4	32.5	38.6
	2023	1524	33.6	19.6	25.1	28.5	11.6	11.7	3.5	34.1	33.1
International Avg. (3)	2019	2052	47.9	16.8	21.9	45.3	9.9	4.6	1.6	46.7	49.0
	2023	3749	48.5	16.5	21.2	44.8	8.5	6.7	2.3	47.6	49.4

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
Bulgaria	2019	614	82.5	80.2	9.0	3.6	4.5	1.5	1.2	83.6	81.4
	2023	1031	82.4	80.0	7.0	5.5	4.6	2.6	0.3	84.1	80.9
Cyprus	2019	574	60.0	58.1	17.4	13.4	7.9	2.1	1.1	56.0	64.1
	2023	1194	56.6	51.3	16.1	12.9	10.3	5.1	4.2	51.0	61.8
Iran, Islamic Rep. of	2019	864	88.3	80.1	7.1	2.1	1.4	6.5	2.8	89.1	87.5
	2023	1524	84.1	73.1	7.9	2.9	3.0	8.7	4.4	84.5	83.7
International Avg. (3)	2019	2052	76.9	72.8	11.2	6.4	4.6	3.4	1.7	76.2	77.6
	2023	3749	74.4	68.1	10.3	7.1	6.0	5.5	3.0	73.2	75.5

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
Bulgaria	2019	614	70.1	28.3	66.4	4.2	1.2	68.6	71.6
	2023	1031	66.0	32.8	63.7	3.2	0.3	66.4	65.6
Cyprus	2019	574	58.3	40.2	56.2	2.2	1.4	57.6	59.0
	2023	1194	56.7	40.4	53.0	2.2	4.3	55.3	58.1
Iran, Islamic Rep. of	2019	864	51.6	44.7	47.7	4.3	3.3	52.6	50.7
	2023	1524	44.6	49.1	39.6	6.7	4.6	47.0	42.2
International Avg. (3)	2019	2052	60.0	37.7	56.8	3.6	2.0	59.6	60.4
	2023	3749	55.8	40.8	52.1	4.0	3.1	56.2	55.3

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

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
Bulgaria	2019	614	45.9	51.8	44.0	3.1	1.2	45.1	46.7
	2023	1031	45.0	52.5	43.0	3.8	0.8	49.0	41.3
Cyprus	2019	574	70.4	28.6	68.2	1.6	1.7	74.3	66.5
	2023	1194	68.8	28.7	63.4	2.7	5.2	69.7	68.0
Iran, Islamic Rep. of	2019	864	29.2	67.1	27.7	1.6	3.6	31.5	27.1
	2023	1524	21.7	73.2	20.3	1.8	4.8	19.5	23.8
International Avg. (3)	2019	2052	48.5	49.1	46.6	2.1	2.2	50.3	46.8
	2023	3749	45.2	51.4	42.2	2.7	3.6	46.1	44.4

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
Bulgaria	2019	614	77.0	5.0	74.6	4.0	13.4	1.8	1.2	77.3	76.6
	2023	1031	79.6	4.0	77.9	2.9	13.0	1.1	1.0	82.4	77.2
Cyprus	2019	574	53.1	5.1	50.8	7.1	32.5	2.5	2.0	48.5	57.9
	2023	1194	53.0	5.8	48.4	8.4	28.7	2.5	6.3	47.0	58.6
Iran, Islamic Rep. of	2019	864	30.8	3.9	28.0	8.8	50.1	5.5	3.8	26.7	34.9
	2023	1524	26.1	5.0	23.0	8.1	52.0	6.9	5.0	27.0	25.1
International Avg. (3)	2019	2052	53.6	4.6	51.1	6.7	32.0	3.2	2.3	50.8	56.5
	2023	3749	52.9	4.9	49.8	6.5	31.2	3.5	4.1	52.2	53.6

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
Bulgaria	2019	614	75.5	73.5	6.4	5.6	12.0	1.0	1.6	76.1	74.8
	2023	1031	75.2	73.5	4.9	6.6	12.7	1.2	1.1	76.0	74.5
Cyprus	2019	574	70.1	66.7	4.3	3.5	20.7	1.5	3.3	65.8	74.3
	2023	1194	67.6	61.4	6.5	4.3	18.7	2.0	7.1	64.1	71.0
Iran, Islamic Rep. of	2019	864	77.1	70.3	6.0	3.1	11.8	3.1	5.6	75.7	78.5
	2023	1524	72.7	63.3	6.5	4.5	12.8	5.7	7.2	69.8	75.7
International Avg. (3)	2019	2052	74.2	70.2	5.6	4.1	14.8	1.9	3.5	72.5	75.9
	2023	3749	71.8	66.1	6.0	5.1	14.7	3.0	5.1	70.0	73.7

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
Bulgaria	2019	614	70.4	9.9	6.2	12.1	67.0	2.9	1.8	70.0	70.7
	2023	1031	73.9	6.7	6.7	11.6	70.9	3.0	1.1	77.4	70.6
Cyprus	2019	574	40.3	14.1	10.7	30.9	37.6	2.8	3.8	40.8	39.7
	2023	1194	44.5	15.1	12.1	21.6	39.2	4.3	7.8	41.9	47.0
Iran, Islamic Rep. of	2019	864	42.8	9.2	13.4	29.0	38.7	3.4	6.4	42.4	43.2
	2023	1524	42.3	10.3	12.1	25.0	34.8	9.5	8.2	39.9	44.8
International Avg. (3)	2019	2052	51.2	11.1	10.1	24.0	47.8	3.0	4.0	51.1	51.2
	2023	3749	53.6	10.7	10.3	19.4	48.3	5.6	5.7	53.1	54.1

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

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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
Bulgaria	2019	614	59.6	33.7	49.7	12.5	4.2	63.1	56.3
	2023	1031	56.2	37.6	48.3	10.8	3.4	58.8	53.9
Cyprus	2019	574	34.2	54.3	28.3	12.0	5.5	36.6	32.0
	2023	1194	22.5	60.6	17.5	11.1	10.8	20.4	24.3
Iran, Islamic Rep. of	2019	864	21.6	65.7	18.1	8.4	7.8	20.0	23.1
	2023	1524	21.9	59.8	16.7	12.0	11.5	23.8	19.9
International Avg. (3)	2019	2052	38.5	51.2	32.0	10.9	5.8	39.9	37.1
	2023	3749	33.5	52.6	27.5	11.3	8.5	34.3	32.7

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