

Science: Life Science / Knowing  
SP04\_01 SP71013: Function of hedgehog spines and snail shell - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	90.6	2.5	89.2	4.2	2.6	1.5	0.0	90.7	90.5
Cyprus	1203	75.5	6.2	74.2	7.2	10.6	1.5	0.3	74.0	77.1
Iran, Islamic Rep. of	1525	73.0	9.0	66.1	6.1	9.4	7.8	1.7	71.5	74.6
International Avg. (3)	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	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	48.9	47.3	49.4	47.3	49.4	3.3	0.1	48.6	49.2
Cyprus	1203	29.1	28.1	68.5	28.1	68.5	2.8	0.6	28.2	30.0
Iran, Islamic Rep. of	1525	32.0	29.8	63.2	29.8	63.2	5.2	1.8	30.1	34.0
International Avg. (3)	3753	36.7	35.1	60.4	35.1	60.4	3.7	0.8	35.6	37.8

Science: Life Science / Knowing

SP04\_02B SP71902B: Identify the animals with backbones: fish - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	78.1	74.1	20.8	5.0	0.1	78.5	77.7
Cyprus	1203	54.2	51.8	43.7	3.9	0.6	53.5	55.1
Iran, Islamic Rep. of	1525	83.2	71.5	14.4	12.3	1.8	82.0	84.5
International Avg. (3)	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	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	65.8	31.8	61.1	7.0	0.1	63.0	68.5
Cyprus	1203	49.1	48.3	46.6	4.4	0.6	47.1	51.2
Iran, Islamic Rep. of	1525	48.6	41.6	39.3	17.3	1.8	49.0	48.1
International Avg. (3)	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	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	91.1	8.4	86.0	5.5	0.1	93.9	88.3
Cyprus	1203	82.9	16.2	78.4	4.8	0.6	82.1	83.6
Iran, Islamic Rep. of	1525	86.3	11.0	69.2	18.0	1.8	84.6	88.0
International Avg. (3)	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

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Science: Life Science / Knowing

SP04\_02E SP71902E: Identify the animals with backbones: bear - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	97.3	92.4	2.5	5.0	0.1	98.5	96.2
Cyprus	1203	92.7	89.1	7.0	3.3	0.6	91.3	94.2
Iran, Islamic Rep. of	1525	88.7	76.3	9.7	12.2	1.8	86.3	91.0
International Avg. (3)	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

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Science: Life Science / Knowing

SP04\_03 SP71076: Predator with its prey - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	79.5	3.4	11.2	77.1	5.4	3.0	0.1	79.1	79.9
Cyprus	1202	70.5	4.7	15.0	65.4	7.7	6.0	1.2	64.5	76.6
Iran, Islamic Rep. of	1525	74.7	2.2	10.0	57.5	7.3	20.7	2.4	74.3	75.1
International Avg. (3)	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

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Science: Life Science / Reasoning

SP04\_04 SP71041: Dandelion reproduction strategies (DERIVED) - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	11 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	32.7	12.7	7.0	18.7	39.6	12.7	25.7	39.6	21.9	0.1	32.7	32.7
Cyprus	1203	21.5	6.9	11.3	4.8	46.3	6.9	16.1	46.3	29.3	1.5	18.9	24.0
Iran, Islamic Rep. of	1525	14.4	1.1	13.8	1.1	43.7	1.1	14.9	43.7	36.5	3.7	14.1	14.6
International Avg. (3)	3753	22.9	6.9	10.7	8.2	43.2	6.9	18.9	43.2	29.2	1.8	21.9	23.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Reasoning

SP04\_04A SP71041A: Advantage of many seeds - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	27.4	6.3	13.4	52.2	19.7	52.2	27.9	0.1	25.8	28.9
Cyprus	1203	27.4	4.0	14.2	48.3	18.2	48.3	32.1	1.5	23.4	31.0
Iran, Islamic Rep. of	1525	26.0	2.1	12.8	42.3	14.9	42.3	39.0	3.7	24.8	27.4
International Avg. (3)	3753	26.9	4.2	13.4	47.6	17.6	47.6	33.0	1.8	24.7	29.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Reasoning

SP04\_04B SP71041B: Advantage of light, fluffy seeds - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	42.7	31.4	42.1	31.4	42.1	26.4	0.1	43.2	42.2
Cyprus	1203	19.3	11.6	48.7	11.6	48.7	38.2	1.5	17.6	20.9
Iran, Islamic Rep. of	1525	5.1	2.3	41.7	2.3	41.7	52.3	3.7	6.1	4.0
International Avg. (3)	3753	22.4	15.1	44.2	15.1	44.2	39.0	1.8	22.3	22.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Applying

SP04\_05 SP71046: Characteristics of the rabbit's mate (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	40.7	39.5	57.4	39.5	57.4	2.6	0.6	42.9	38.7
Cyprus	1203	36.4	34.6	60.6	34.6	60.6	1.6	3.3	36.4	36.3
Iran, Islamic Rep. of	1525	15.1	13.5	76.1	13.5	76.1	5.9	4.5	16.3	13.9
International Avg. (3)	3753	30.7	29.2	64.7	29.2	64.7	3.3	2.8	31.9	29.6

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Applying

SP04\_05A SP71046A: Characteristics of the rabbit's mate - male - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	85.9	81.1	13.3	5.1	0.6	84.6	87.3
Cyprus	1203	83.2	78.3	15.8	2.7	3.3	84.4	82.0
Iran, Islamic Rep. of	1525	71.1	55.4	22.6	17.4	4.5	67.6	74.5
International Avg. (3)	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

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Science: Life Science / Applying

SP04\_05B SP71046B: Characteristics of the rabbit's mate - color - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	76.3	22.0	70.8	6.6	0.6	80.1	72.6
Cyprus	1203	82.2	16.7	77.3	2.7	3.3	83.2	81.2
Iran, Islamic Rep. of	1525	67.8	22.4	47.1	26.0	4.5	68.3	67.2
International Avg. (3)	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

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Science: Life Science / Applying

SP04\_05C SP71046C: Characteristics of the rabbit's mate - adult - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	79.1	73.5	19.4	6.5	0.6	78.6	79.6
Cyprus	1203	68.9	64.9	29.2	2.6	3.3	69.0	68.9
Iran, Islamic Rep. of	1525	68.0	44.9	21.1	29.4	4.5	69.7	66.4
International Avg. (3)	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

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Science: Life Science / Applying

SP04\_05D SP71046D: Characteristics of the rabbit's mate - tall ears - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	61.3	35.2	55.6	8.7	0.6	62.0	60.6
Cyprus	1203	62.3	34.9	57.6	4.2	3.3	60.0	64.6
Iran, Islamic Rep. of	1525	52.5	31.2	34.5	29.8	4.5	54.3	50.7
International Avg. (3)	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

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Science: Life Science / Applying

SP04\_05E SP71046E: Characteristics of the rabbit's mate - age - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	83.4	15.2	76.3	7.9	0.6	85.9	80.9
Cyprus	1203	83.2	15.7	77.6	3.4	3.3	85.3	81.0
Iran, Islamic Rep. of	1525	57.8	29.4	40.2	25.8	4.5	57.4	58.1
International Avg. (3)	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

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Science: Life Science / Knowing

SP04\_06 SP71095: Germs from George's cough - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	46.2	39.8	28.6	17.7	39.8	46.3	12.9	0.9	48.1	44.4
Cyprus	1203	60.1	49.1	10.7	21.9	49.1	32.6	14.5	3.9	60.9	59.3
Iran, Islamic Rep. of	1525	28.5	21.1	0.1	52.8	21.1	52.9	20.7	5.2	31.0	25.7
International Avg. (3)	3753	44.9	36.7	13.1	30.8	36.7	43.9	16.1	3.3	46.7	43.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Physical Science / Applying

SP04\_07 SP71129: Identify circuit with a lit bulb - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	82.2	77.5	2.9	8.9	5.0	4.6	1.1	82.3	82.1
Cyprus	1203	88.2	80.7	3.0	4.6	3.2	3.3	5.2	87.8	88.6
Iran, Islamic Rep. of	1525	84.1	73.5	2.0	9.1	2.7	6.7	5.9	81.4	86.9
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying

SP04\_08 SP71102: Movement of Train Car A - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	20.7	19.6	30.1	45.0	19.6	75.1	4.0	1.3	17.5	23.7
Cyprus	1203	42.3	39.0	10.4	42.9	39.0	53.3	1.9	5.8	41.3	43.2
Iran, Islamic Rep. of	1525	28.7	26.0	0.2	64.4	26.0	64.6	2.9	6.5	28.5	28.8
International Avg. (3)	3753	30.5	28.2	13.6	50.7	28.2	64.3	2.9	4.5	29.1	31.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP04\_09 SP71124: Relationship between force and sound - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	62.2	18.4	58.4	7.4	9.7	4.8	1.4	60.9	63.5
Cyprus	1203	50.0	23.8	43.6	9.9	9.9	6.3	6.5	43.8	55.9
Iran, Islamic Rep. of	1525	34.2	26.2	27.5	13.9	12.7	12.6	7.1	33.0	35.4
International Avg. (3)	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	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	87.9	6.0	2.1	3.5	84.8	1.9	1.7	86.5	89.3
Cyprus	1203	82.1	8.7	1.8	5.2	72.3	2.5	9.5	80.1	84.2
Iran, Islamic Rep. of	1525	85.4	6.5	1.8	4.2	73.3	5.3	8.9	85.6	85.3
International Avg. (3)	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

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Science: Earth Science / Applying  
SP04\_11 SP71265: Season in City A - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	55.9	9.5	23.7	52.8	8.5	3.6	2.0	54.0	57.8
Cyprus	1203	55.2	11.7	18.8	48.3	8.7	1.9	10.6	53.2	57.3
Iran, Islamic Rep. of	1525	48.1	17.0	19.3	40.7	7.6	6.0	9.4	46.2	50.2
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP04\_12 SP71223: Resources for Harriet's garden - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1025	89.5	8.0	86.4	1.4	0.7	1.3	2.1	91.0	87.9
Cyprus	1203	82.2	13.9	71.9	0.7	0.9	1.4	11.2	79.1	85.3
Iran, Islamic Rep. of	1525	89.1	8.1	77.7	1.2	0.2	2.8	10.0	89.8	88.4
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying

SP08\_02 SP71033: Seedling of a bean plant - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	70.1	17.6	7.3	4.2	68.3	2.3	0.3	72.1	68.4
Cyprus	1208	69.2	14.8	6.2	9.4	68.4	0.8	0.4	68.5	70.0
Iran, Islamic Rep. of	1531	68.3	13.6	3.6	12.4	63.8	5.5	1.0	67.6	68.9
International Avg. (3)	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

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Science: Life Science / Applying

SP08\_03 SP71065: Complete the food chain - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	78.9	74.7	19.9	74.7	19.9	5.1	0.3	77.8	79.9
Cyprus	1208	72.7	66.9	25.2	66.9	25.2	7.5	0.4	70.9	74.6
Iran, Islamic Rep. of	1532	42.9	36.5	48.5	36.5	48.5	13.6	1.4	42.0	43.9
International Avg. (3)	3767	64.8	59.4	31.2	59.4	31.2	8.7	0.7	63.6	66.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying  
SP08\_04 SP71025: What happened to strawberry plant between photos - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	71.6	70.5	7.8	18.6	1.5	1.3	0.3	74.4	69.2
Cyprus	1208	58.0	56.5	7.6	29.9	3.5	2.2	0.4	61.0	54.7
Iran, Islamic Rep. of	1532	57.5	51.9	11.9	21.8	4.6	8.2	1.6	58.4	56.7
International Avg. (3)	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  
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Science: Life Science / Reasoning

SP08\_05 SP71081: Animal that competes with giraffe for food - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	46.8	7.3	12.7	45.1	31.3	3.3	0.3	43.1	50.1
Cyprus	1208	20.1	58.2	12.4	19.7	7.7	1.5	0.4	16.0	24.5
Iran, Islamic Rep. of	1531	24.3	47.6	16.4	22.8	7.1	4.3	1.8	21.3	27.2
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP08\_06 SP71056: Human body's reaction to cold temperatures - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	71 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	53.2	46.9	20.9	4.1	16.3	46.9	41.3	11.1	0.7	55.0	51.6
Cyprus	1208	32.5	25.5	11.1	7.7	34.1	25.5	52.9	21.1	0.5	35.1	29.7
Iran, Islamic Rep. of	1531	29.6	20.8	2.3	22.6	24.8	20.8	49.7	27.6	1.9	27.5	31.8
International Avg. (3)	3766	38.4	31.1	11.4	11.4	25.1	31.1	48.0	19.9	1.0	39.2	37.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying  
SP08\_07 SP71145: Ramp that makes it easiest to move heavy box - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	68.3	65.7	15.3	1.3	13.9	3.1	0.7	66.7	69.7
Cyprus	1208	58.3	56.6	18.4	5.8	16.4	2.1	0.8	56.4	60.2
Iran, Islamic Rep. of	1531	56.1	51.8	15.1	1.9	23.6	5.1	2.6	57.1	55.1
International Avg. (3)	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  
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Science: Physical Science / Reasoning

SP08\_08 SP71104: Magnets in plastic and iron cups - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	82.4	73.7	15.8	73.7	15.8	9.8	0.7	81.1	83.5
Cyprus	1208	68.3	60.0	27.9	60.0	27.9	11.3	0.8	67.1	69.6
Iran, Islamic Rep. of	1532	61.9	49.1	30.2	49.1	30.2	18.2	2.6	62.4	61.4
International Avg. (3)	3767	70.9	60.9	24.6	60.9	24.6	13.1	1.4	70.2	71.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP08\_09 SP71144: How using a pulley helps lift a box - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	59.4	9.7	11.6	18.0	57.5	2.4	0.9	59.5	59.3
Cyprus	1208	57.0	14.7	10.3	16.4	54.8	2.2	1.6	57.2	56.8
Iran, Islamic Rep. of	1532	54.7	18.3	7.8	15.1	49.6	6.1	3.2	56.7	52.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP08\_10 SP71150: Force acting on skydiver and dropped book - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	77.0	64.4	19.2	64.4	19.2	15.5	1.0	73.1	80.5
Cyprus	1208	69.1	48.5	21.7	48.5	21.7	27.8	2.0	65.6	72.8
Iran, Islamic Rep. of	1531	53.3	37.9	33.1	37.9	33.1	25.5	3.5	49.1	57.4
International Avg. (3)	3766	66.5	50.2	24.7	50.2	24.7	22.9	2.1	62.6	70.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Earth Science / Knowing

SP08\_11 SP71201: What covers Earth's surface - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	65.6	8.8	63.8	18.9	5.8	1.7	1.1	61.3	69.5
Cyprus	1208	73.8	8.0	70.6	12.8	4.2	1.8	2.5	72.0	75.8
Iran, Islamic Rep. of	1531	55.1	14.9	50.8	13.0	13.5	3.8	4.1	54.1	56.1
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying  
SP08\_12 SP71237: Identify the desert - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	51.4	48.6	45.9	48.6	45.9	4.3	1.1	52.5	50.5
Cyprus	1208	41.6	38.3	53.8	38.3	53.8	5.2	2.7	38.0	45.3
Iran, Islamic Rep. of	1532	31.9	28.5	61.0	28.5	61.0	6.4	4.1	29.9	33.7
International Avg. (3)	3767	41.6	38.5	53.6	38.5	53.6	5.3	2.7	40.2	43.2

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Reasoning

SP08\_13 SP71260: Tree's shadow at 2:00 p.m. - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1027	41.9	10.1	12.6	40.8	33.8	1.5	1.3	42.8	41.1
Cyprus	1208	36.3	11.6	18.5	35.0	31.2	0.3	3.5	37.8	34.8
Iran, Islamic Rep. of	1532	24.4	27.3	17.4	22.2	24.0	3.4	5.7	24.0	24.8
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP09\_01 SP61135: Milk important for balanced diet - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	78.3	7.3	8.5	77.4	5.5	1.2	0.0	78.6	78.1
Cyprus	1201	61.2	10.2	16.9	59.6	10.8	2.0	0.5	62.3	60.1
Iran, Islamic Rep. of	1534	62.5	5.8	19.0	54.5	7.9	12.1	0.8	63.7	61.3
International Avg. (3)	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	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	70.5	62.2	16.7	9.3	62.2	26.0	11.8	0.0	72.3	68.9
Cyprus	1201	66.3	61.2	23.9	7.3	61.2	31.1	7.1	0.5	67.6	65.0
Iran, Islamic Rep. of	1534	50.2	36.4	22.4	13.7	36.4	36.1	26.3	1.2	51.9	48.4
International Avg. (3)	3761	62.3	53.3	21.0	10.1	53.3	31.1	15.1	0.6	63.9	60.8

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 / Applying

SP09\_03 SP61134: Lions panting on hot days - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	60.9	8.8	5.1	24.3	59.4	2.2	0.2	61.4	60.5
Cyprus	1201	49.7	11.5	14.8	21.2	47.1	4.6	0.8	48.7	50.7
Iran, Islamic Rep. of	1534	48.2	16.0	13.6	13.3	40.0	15.2	1.9	51.3	44.8
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying

SP09\_04 SP61140: Grasshopper and butterfly cycles - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	63.3	15.5	61.6	11.0	9.2	2.5	0.2	66.9	60.2
Cyprus	1201	52.0	12.6	49.1	17.8	14.8	4.1	1.5	53.5	50.5
Iran, Islamic Rep. of	1534	42.0	27.1	36.3	15.0	8.0	11.2	2.3	43.5	40.5
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP09\_05 SP61019: Hawks and mice in a field - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	33.0	32.0	64.9	32.0	64.9	2.9	0.2	35.8	30.6
Cyprus	1201	18.0	16.6	75.6	16.6	75.6	5.7	2.1	20.7	15.4
Iran, Islamic Rep. of	1534	18.3	16.6	74.3	16.6	74.3	6.5	2.6	19.6	16.9
International Avg. (3)	3761	23.1	21.7	71.6	21.7	71.6	5.0	1.7	25.4	21.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Life Science / Knowing

SP09\_06 SP61022: Laura has the flu - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	55.4	53.1	8.8	18.2	15.6	4.0	0.2	55.9	55.0
Cyprus	1201	54.4	51.0	14.4	13.8	14.5	3.8	2.5	56.0	52.9
Iran, Islamic Rep. of	1534	27.2	23.7	21.8	25.9	15.6	9.9	3.1	27.8	26.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP09\_07 SP61036: Melting butter at end of spoon - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	32.2	31.1	65.6	31.1	65.6	3.1	0.2	36.1	28.7
Cyprus	1201	21.4	19.8	72.8	19.8	72.8	4.3	3.1	22.8	20.1
Iran, Islamic Rep. of	1534	23.1	20.9	69.6	20.9	69.6	5.9	3.6	23.9	22.4
International Avg. (3)	3761	25.6	24.0	69.3	24.0	69.3	4.4	2.3	27.6	23.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying

SP09\_08 SP61160: State of matter of items - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	90.0	83.4	3.4	5.8	83.4	9.3	7.0	0.4	89.5	90.4
Cyprus	1201	81.8	75.3	6.0	10.7	75.3	16.8	4.0	3.9	81.1	82.4
Iran, Islamic Rep. of	1534	44.0	37.2	3.7	43.6	37.2	47.3	10.5	5.0	49.8	38.1
International Avg. (3)	3761	71.9	65.3	4.4	20.0	65.3	24.4	7.2	3.1	73.5	70.3

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 / Applying

SP09\_09 SP61159: Which wagon requires more force - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	69.7	67.5	29.4	67.5	29.4	2.4	0.7	72.3	67.4
Cyprus	1201	75.7	69.3	22.3	69.3	22.3	3.4	5.1	77.3	74.1
Iran, Islamic Rep. of	1534	55.8	49.8	39.4	49.8	39.4	3.9	6.9	60.4	51.3
International Avg. (3)	3761	67.1	62.2	30.4	62.2	30.4	3.2	4.2	70.0	64.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP09\_10 SP61091: Energy in a closed circuit - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	61.8	38.6	14.9	21.1	38.6	14.9	21.1	24.7	0.8	62.6	61.0
Cyprus	1201	27.9	12.6	11.9	42.0	12.6	11.9	42.0	26.9	6.5	25.9	30.0
Iran, Islamic Rep. of	1534	40.0	22.0	4.3	34.1	22.0	4.3	34.1	31.8	7.7	38.5	41.6
International Avg. (3)	3761	43.2	24.4	10.4	32.4	24.4	10.4	32.4	27.8	5.0	42.3	44.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP09\_11 SP61118: Sun, Earth, Moon in space - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	71.7	11.9	66.2	5.9	8.3	5.3	2.4	70.2	72.9
Cyprus	1201	50.2	19.2	43.0	7.7	15.8	5.7	8.5	49.0	51.3
Iran, Islamic Rep. of	1534	43.2	18.0	31.5	8.8	14.6	16.3	10.8	42.0	44.5
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Reasoning  
SP09\_12 SP61097: Natural desert rock formation - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1026	59.4	18.3	56.7	12.0	8.5	2.1	2.5	57.2	61.3
Cyprus	1201	51.5	14.7	46.3	14.8	14.1	1.3	8.8	50.0	53.1
Iran, Islamic Rep. of	1534	51.9	19.4	42.9	12.5	7.8	5.4	12.0	52.7	51.0
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP10\_01 SP71009: Bird, insect, mammal, or reptile (DERIVED) - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	67.2	44.6	41.8	11.1	44.6	41.8	11.1	2.5	0.1	67.1	67.3
Cyprus	1208	54.9	29.4	48.3	19.8	29.4	48.3	19.8	2.3	0.3	55.9	54.0
Iran, Islamic Rep. of	1516	43.0	12.0	57.2	25.2	12.0	57.2	25.2	4.6	1.1	42.6	43.5
International Avg. (3)	3739	55.1	28.7	49.1	18.7	28.7	49.1	18.7	3.1	0.5	55.2	54.9

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Life Science / Knowing

SP10\_01A SP71009A: Bird, insect, mammal, or reptile - snake - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	91.9	1.3	3.3	3.1	87.7	4.5	0.1	91.9	91.9
Cyprus	1208	78.2	0.3	8.4	12.2	74.9	3.9	0.3	77.1	79.2
Iran, Islamic Rep. of	1516	91.5	1.9	2.8	2.9	81.9	9.3	1.1	92.4	90.6
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing  
SP10\_01B SP71009B: Bird, insect, mammal, or reptile - bat - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	61.2	29.8	1.7	57.8	5.1	5.4	0.1	60.3	62.0
Cyprus	1208	46.4	33.5	2.8	44.1	14.7	4.5	0.3	50.6	42.3
Iran, Islamic Rep. of	1516	26.5	58.9	2.8	22.9	1.8	12.5	1.1	24.2	29.0
International Avg. (3)	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	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	95.5	2.2	91.6	1.0	1.1	4.0	0.1	95.2	95.7
Cyprus	1208	95.2	1.3	92.2	0.9	2.5	2.9	0.3	95.6	94.8
Iran, Islamic Rep. of	1516	92.6	3.8	81.5	2.3	0.4	10.8	1.1	94.3	90.8
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing  
SP10\_01D SP71009D: Bird, insect, mammal, or reptile - eagle - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	93.8	88.9	0.4	3.6	1.9	5.0	0.1	93.4	94.0
Cyprus	1208	89.4	85.9	0.5	2.9	6.8	3.6	0.3	91.6	87.3
Iran, Islamic Rep. of	1516	93.9	82.1	0.5	3.2	1.6	11.4	1.1	94.2	93.6
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing  
SP10\_01E SP71009E: Bird, insect, mammal, or reptile - crocodile - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	76.2	1.2	1.4	19.9	72.1	5.3	0.1	76.3	76.1
Cyprus	1208	64.7	0.3	1.1	32.0	61.2	5.1	0.3	64.0	65.3
Iran, Islamic Rep. of	1516	50.1	1.2	1.6	39.9	43.0	13.2	1.1	46.3	54.3
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP10\_01F SP71009F: Bird, insect, mammal, or reptile - whale - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	92.0	2.0	0.8	87.1	4.8	5.2	0.1	92.5	91.6
Cyprus	1208	88.8	0.4	1.2	85.5	9.1	3.4	0.3	88.7	89.0
Iran, Islamic Rep. of	1516	79.7	1.8	2.2	67.5	13.2	14.1	1.1	78.5	80.9
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying

SP10\_02 SP71093: Why Amy should wash hands - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	71 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	62.2	55.4	3.1	17.6	13.0	55.4	33.7	10.5	0.4	66.0	58.6
Cyprus	1208	76.0	71.3	2.5	1.6	18.4	71.3	22.5	5.6	0.6	76.6	75.5
Iran, Islamic Rep. of	1516	42.3	37.8	10.0	6.2	35.4	37.8	51.6	9.0	1.5	44.8	39.5
International Avg. (3)	3739	60.2	54.8	5.2	8.5	22.3	54.8	35.9	8.4	0.8	62.5	57.9

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

SP10\_03 SP71069: How an owl gets energy from the Sun - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	62.0	8.0	59.6	19.6	8.9	3.3	0.6	62.7	61.5
Cyprus	1208	49.7	12.4	47.7	25.0	10.9	3.2	0.9	47.9	51.5
Iran, Islamic Rep. of	1516	43.4	12.0	37.1	23.9	12.5	12.5	2.1	41.1	45.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Life Science / Reasoning

SP10\_04 SP71051: Why lemurs sit with arms outstretched - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	58.9	49.0	34.3	49.0	34.3	16.1	0.6	55.8	61.5
Cyprus	1208	37.6	31.8	52.7	31.8	52.7	14.2	1.2	35.9	39.4
Iran, Islamic Rep. of	1516	25.0	17.0	51.0	17.0	51.0	29.2	2.8	24.6	25.4
International Avg. (3)	3739	40.5	32.6	46.0	32.6	46.0	19.8	1.5	38.7	42.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying  
SP10\_05 SP71039: Type of tree seedling - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	69.8	6.6	14.5	8.3	68.0	1.9	0.7	70.2	69.4
Cyprus	1208	59.4	11.1	11.6	16.3	56.9	2.5	1.6	61.6	57.2
Iran, Islamic Rep. of	1516	60.7	7.4	15.6	12.2	54.2	7.5	3.1	63.2	57.9
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying

SP10\_06 SP71080: Ecosystem where living things are found - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	58.6	8.2	4.1	28.2	57.3	1.3	0.9	55.0	61.6
Cyprus	1208	27.9	19.9	13.2	36.3	26.9	1.2	2.5	24.5	31.3
Iran, Islamic Rep. of	1516	16.9	14.7	53.2	7.8	15.4	5.1	3.8	13.7	20.3
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP10\_07 SP71137: Why a flashlight needs batteries to light - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	70.1	61.7	26.3	61.7	26.3	11.1	0.9	63.6	75.7
Cyprus	1208	67.1	58.9	28.9	58.9	28.9	9.6	2.5	61.2	72.7
Iran, Islamic Rep. of	1516	56.9	48.3	36.6	48.3	36.6	11.0	4.0	56.6	57.1
International Avg. (3)	3739	64.7	56.3	30.6	56.3	30.6	10.6	2.5	60.4	68.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing  
SP10\_08 SP71103: Set of carts that will move apart - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	57.4	22.9	55.0	10.5	7.5	2.8	1.3	57.5	57.3
Cyprus	1208	68.7	19.7	64.0	5.7	3.7	3.5	3.3	67.9	69.5
Iran, Islamic Rep. of	1516	72.1	13.8	64.7	7.1	4.2	5.5	4.8	69.7	74.5
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning  
SP10\_09 SP71106: Conclusions supported by Adam's results (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	40.9	38.3	55.4	38.3	55.4	4.7	1.6	40.6	41.2
Cyprus	1208	43.9	39.7	50.7	39.7	50.7	5.7	3.9	41.8	46.0
Iran, Islamic Rep. of	1516	29.2	24.1	58.3	24.1	58.3	12.2	5.4	28.9	29.6
International Avg. (3)	3739	38.0	34.0	54.8	34.0	54.8	7.5	3.6	37.1	38.9

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP10\_09A SP71106A: Conclusions - lemon juice and baking soda - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	86.4	79.8	12.6	6.1	1.6	86.4	86.4
Cyprus	1208	86.4	77.3	12.1	6.6	3.9	87.3	85.6
Iran, Islamic Rep. of	1516	84.7	61.9	11.2	21.5	5.4	83.4	86.1
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning  
SP10\_09B SP71106B: Conclusions - vinegar with a solid - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	71.8	25.8	65.6	7.0	1.6	74.1	69.7
Cyprus	1208	73.7	23.1	64.8	8.2	3.9	74.4	73.1
Iran, Islamic Rep. of	1516	74.7	16.8	49.6	28.3	5.4	73.6	76.0
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Physical Science / Reasoning  
SP10\_09C SP71106C: Conclusions - lemon juice and salt - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	71.2	26.1	64.4	7.9	1.6	68.5	73.5
Cyprus	1208	77.3	19.7	67.1	9.2	3.9	76.2	78.4
Iran, Islamic Rep. of	1516	73.8	16.6	46.6	31.4	5.4	76.1	71.1
International Avg. (3)	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	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	84.8	77.0	13.8	7.6	1.6	85.3	84.3
Cyprus	1208	77.2	67.8	20.0	8.3	3.9	77.1	77.4
Iran, Islamic Rep. of	1516	74.1	50.2	17.6	26.8	5.4	74.0	74.1
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP10\_10 SP71100: Completing Julie's circuit - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	67.3	64.6	21.2	2.4	7.8	2.2	1.7	64.9	69.3
Cyprus	1208	72.6	66.2	19.1	2.7	3.3	3.1	5.7	72.4	72.7
Iran, Islamic Rep. of	1516	80.6	71.4	9.7	4.6	2.9	3.8	7.5	80.2	80.9
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying  
SP10\_12 SP71220: Tropical plant fossil in cold environment - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	59.6	56.8	9.6	12.4	16.4	2.3	2.4	59.5	59.7
Cyprus	1208	45.5	40.2	14.9	15.4	17.9	4.6	6.9	40.5	50.3
Iran, Islamic Rep. of	1516	44.8	37.4	16.2	13.2	16.7	6.4	10.2	42.7	47.1
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing  
SP10\_13 SP71254: Shapes the Moon can have - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1015	49.2	44.0	45.5	44.0	45.5	8.1	2.4	53.6	45.3
Cyprus	1208	33.3	28.5	57.1	28.5	57.1	5.9	8.5	34.2	32.4
Iran, Islamic Rep. of	1516	27.4	21.2	56.1	21.2	56.1	10.5	12.2	26.7	28.2
International Avg. (3)	3739	36.6	31.2	52.9	31.2	52.9	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	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	42.3	41.7	8.1	6.0	42.8	1.2	0.2	40.1	44.0
Cyprus	1210	40.3	38.5	10.1	3.9	43.0	3.0	1.5	39.2	41.4
Iran, Islamic Rep. of	1523	32.4	30.2	13.0	9.6	40.3	4.9	1.9	36.6	28.0
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing  
SP11\_02 SP61120: Season south of Equator - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	72.9	7.3	9.2	10.1	71.4	1.8	0.3	74.3	71.7
Cyprus	1210	48.4	14.8	18.2	15.7	45.8	3.1	2.4	46.8	50.0
Iran, Islamic Rep. of	1523	44.9	15.5	15.7	18.1	40.2	7.6	2.8	46.6	43.1
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP11\_03 SP61025: Life cycle of flowering plant - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	56.7	49.0	37.5	49.0	37.5	13.2	0.3	58.8	54.8
Cyprus	1210	55.2	48.4	39.4	48.4	39.4	9.7	2.5	57.2	53.3
Iran, Islamic Rep. of	1523	53.7	41.4	35.7	41.4	35.7	19.8	3.1	55.3	52.0
International Avg. (3)	3740	55.2	46.3	37.5	46.3	37.5	14.2	2.0	57.1	53.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Life Science / Reasoning  
SP11\_04A SP61133A: Water and plant height conclusion - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	63.6	8.7	16.0	60.7	10.2	3.8	0.7	62.1	64.7
Cyprus	1210	54.1	10.1	25.0	49.6	7.0	4.9	3.3	48.0	59.8
Iran, Islamic Rep. of	1523	55.0	12.8	15.9	48.6	11.0	7.2	4.5	53.7	56.5
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP11\_04B SP61133B: Water and plant height statement - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	43.4	15.3	25.5	12.4	40.8	4.7	1.3	40.2	46.1
Cyprus	1210	30.5	15.9	32.8	13.1	27.1	6.0	5.1	27.9	33.0
Iran, Islamic Rep. of	1523	12.7	24.9	20.3	24.2	10.1	14.5	6.0	11.8	13.7
International Avg. (3)	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	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	70.0	52.5	22.5	52.5	22.5	23.7	1.3	70.1	69.9
Cyprus	1210	35.2	23.8	43.9	23.8	43.9	26.8	5.4	33.1	37.1
Iran, Islamic Rep. of	1522	51.1	36.4	34.8	36.4	34.8	21.8	7.1	57.6	43.3
International Avg. (3)	3739	52.1	37.6	33.7	37.6	33.7	24.1	4.6	53.6	50.1

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP11\_06 SP61093: Polar bear fur for survival - CR - 2 Points

COUNTRY	N	DIFF %	20 %	10 %	79 %	2pt %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	57.1	27.8	43.6	15.5	27.8	43.6	15.5	11.3	1.7	56.2	57.8
Cyprus	1210	57.5	32.5	34.1	19.5	32.5	34.1	19.5	7.2	6.7	57.2	57.8
Iran, Islamic Rep. of	1523	43.5	12.2	39.7	21.9	12.2	39.7	21.9	18.6	7.7	43.9	42.9
International Avg. (3)	3740	52.7	24.2	39.1	19.0	24.2	39.1	19.0	12.4	5.4	52.5	52.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying  
SP11\_07 SP61161: Pots are made of metal - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	64.4	53.6	29.6	53.6	29.6	14.8	1.9	65.9	63.1
Cyprus	1210	32.7	23.5	48.3	23.5	48.3	20.6	7.6	27.4	37.8
Iran, Islamic Rep. of	1523	37.8	25.5	42.0	25.5	42.0	24.1	8.4	37.9	37.7
International Avg. (3)	3740	45.0	34.2	40.0	34.2	40.0	19.9	6.0	43.7	46.2

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP11\_08A SP61042A: Separate iron from sand and salt - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	53.7	11.3	50.9	29.9	2.6	3.3	2.0	54.6	53.1
Cyprus	1210	36.6	21.8	31.6	29.0	3.9	3.6	10.1	37.6	35.7
Iran, Islamic Rep. of	1523	60.2	8.1	50.6	23.1	2.2	6.8	9.2	60.7	59.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Reasoning

SP11\_08B SP61042B: Separate sand from mixture - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	45.5	40.7	10.8	16.6	21.4	8.3	2.2	49.7	42.1
Cyprus	1210	24.6	20.1	25.0	10.7	25.8	7.5	10.8	25.9	23.5
Iran, Islamic Rep. of	1523	49.1	39.3	19.7	7.9	13.2	9.5	10.4	51.9	45.9
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying

SP11\_09A SP61041A: Boiling water disappears - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	66.4	56.5	28.6	56.5	28.6	12.5	2.3	69.0	64.1
Cyprus	1210	51.4	39.3	37.1	39.3	37.1	11.7	11.9	50.5	52.2
Iran, Islamic Rep. of	1523	53.4	33.4	29.1	33.4	29.1	25.8	11.8	50.3	57.0
International Avg. (3)	3740	57.1	43.1	31.6	43.1	31.6	16.7	8.7	56.6	57.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Physical Science / Applying

SP11\_09B SP61041B: Steam on window - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	72.2	59.9	23.1	59.9	23.1	14.0	3.0	78.7	66.7
Cyprus	1210	50.8	37.0	35.8	37.0	35.8	13.4	13.8	56.5	45.5
Iran, Islamic Rep. of	1523	58.4	37.2	26.5	37.2	26.5	22.8	13.5	60.0	56.4
International Avg. (3)	3740	60.5	44.7	28.4	44.7	28.4	16.8	10.1	65.1	56.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Applying  
SP11\_10 SP61155: Bulb in circuit will not light - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1007	71.6	66.9	9.9	9.1	7.6	3.4	3.1	70.4	72.5
Cyprus	1210	76.3	63.5	10.9	6.2	2.7	1.8	14.9	75.7	76.8
Iran, Islamic Rep. of	1523	73.0	59.3	12.7	4.5	4.7	4.7	14.2	72.8	73.3
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying  
SP12\_01 SP71031: Order life stages of a butterfly - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	59.2	57.6	4.4	35.2	57.6	39.6	2.3	0.4	58.5	59.9
Cyprus	1211	50.8	49.6	0.5	47.5	49.6	48.1	1.4	0.9	44.6	56.5
Iran, Islamic Rep. of	1534	31.1	28.9	0.8	63.1	28.9	63.9	5.8	1.5	26.8	35.5
International Avg. (3)	3773	47.1	45.4	1.9	48.6	45.4	50.5	3.2	0.9	43.3	50.6

DIFF = Percent correct  
Because of missing gender information, some totals may appear inconsistent  
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Science: Life Science / Applying  
SP12\_02 SP71090: Ice cream with fewer germs - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	43.0	42.4	56.2	42.4	56.2	1.0	0.4	46.9	39.5
Cyprus	1211	58.4	57.0	40.6	57.0	40.6	1.3	1.0	63.7	53.5
Iran, Islamic Rep. of	1535	41.6	39.9	56.0	39.9	56.0	2.4	1.7	46.1	37.1
International Avg. (3)	3774	47.7	46.4	50.9	46.4	50.9	1.6	1.0	52.2	43.4

Science: Life Science / Applying  
SP12\_03 SP71048: Why insects lay many eggs - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	45.9	10.3	43.7	9.9	31.3	4.5	0.4	45.5	46.2
Cyprus	1211	49.8	17.1	47.6	13.3	17.7	3.1	1.3	45.8	53.3
Iran, Islamic Rep. of	1535	23.9	27.3	19.0	11.4	21.7	18.6	2.1	21.4	26.5
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP12\_04 SP71071: Mice increase after trees are cut down - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	45.9	35.1	41.4	35.1	41.4	22.7	0.8	47.1	44.8
Cyprus	1211	28.0	21.7	55.8	21.7	55.8	20.7	1.8	25.3	30.3
Iran, Islamic Rep. of	1535	36.2	23.8	41.9	23.8	41.9	30.7	3.7	33.0	39.7
International Avg. (3)	3774	36.7	26.8	46.4	26.8	46.4	24.7	2.1	35.1	38.3

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP12\_05 SP71011: Sarah's groups of animals - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	81.8	6.2	8.1	79.0	3.2	2.5	1.0	82.3	81.4
Cyprus	1211	80.3	7.2	7.9	75.5	3.4	3.7	2.2	76.8	83.5
Iran, Islamic Rep. of	1535	66.1	7.0	13.5	48.9	4.6	21.7	4.3	68.9	63.2
International Avg. (3)	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

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Science: Physical Science / Knowing

SP12\_06 SP71142: Why open toy parachute falls more slowly - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	60.6	29.1	3.3	5.9	58.7	2.0	1.0	54.1	66.3
Cyprus	1211	55.2	28.3	6.3	8.0	52.5	2.1	2.9	48.2	61.6
Iran, Islamic Rep. of	1535	61.6	12.4	14.0	7.8	55.0	5.8	5.0	61.0	62.2
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College



Science: Physical Science / Knowing  
SP12\_07 SP71138: Temperature of table under hot cup of tea - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	77.2	67.4	0.0	19.9	67.4	19.9	11.3	1.4	79.4	75.2
Cyprus	1211	70.7	59.3	0.1	24.5	59.3	24.5	12.7	3.5	71.0	70.5
Iran, Islamic Rep. of	1535	74.7	55.7	0.3	18.5	55.7	18.8	20.0	5.5	77.5	71.7
International Avg. (3)	3774	74.2	60.8	0.1	20.9	60.8	21.1	14.7	3.5	76.0	72.5

Science: Physical Science / Knowing  
SP12\_08 SP71127: Energy change in a circuit - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	74.1	3.8	19.2	71.3	1.9	2.4	1.5	74.7	73.6
Cyprus	1211	60.6	5.9	26.6	56.4	4.1	2.5	4.5	57.1	63.9
Iran, Islamic Rep. of	1535	70.7	5.5	17.7	62.7	2.7	4.9	6.4	69.8	71.7
International Avg. (3)	3774	68.5	5.1	21.2	63.5	2.9	3.3	4.1	67.2	69.7

Science: Physical Science / Applying  
SP12\_10 SP71500: Magnets that Anne has - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	37.0	4.4	14.2	41.7	35.4	2.9	1.5	37.3	36.7
Cyprus	1211	51.9	4.3	4.8	35.7	48.4	1.6	5.2	50.3	53.4
Iran, Islamic Rep. of	1535	57.8	6.0	6.9	23.2	49.6	6.8	7.4	59.9	55.7
International Avg. (3)	3774	48.9	4.9	8.6	33.5	44.5	3.8	4.7	49.2	48.6

Science: Earth Science / Reasoning  
SP12\_11 SP71257: When the man has a shorter shadow - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	45.0	16.7	43.4	15.9	20.5	1.8	1.7	42.2	47.3
Cyprus	1211	42.3	19.4	38.8	15.5	18.1	2.3	5.9	39.1	45.3
Iran, Islamic Rep. of	1535	52.5	15.6	45.4	13.3	12.0	5.6	8.1	49.0	56.2
International Avg. (3)	3774	46.6	17.2	42.5	14.9	16.9	3.2	5.2	43.4	49.6

Science: Earth Science / Applying

SP12\_12 SP71222: Fish fossil in the desert - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	65.6	52.4	27.5	52.4	27.5	17.8	2.4	62.8	68.2
Cyprus	1211	68.1	52.3	24.5	52.3	24.5	16.4	6.8	63.8	72.0
Iran, Islamic Rep. of	1535	45.3	31.3	37.9	31.3	37.9	22.1	8.8	40.8	50.0
International Avg. (3)	3774	59.7	45.3	29.9	45.3	29.9	18.8	6.0	55.8	63.4

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Earth Science / Knowing

SP12\_13 SP71252: Diagram representing the Solar System - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1028	72.5	68.4	15.2	7.7	3.0	2.3	3.4	73.6	71.5
Cyprus	1211	57.2	50.2	21.1	11.8	4.6	2.9	9.5	51.2	62.8
Iran, Islamic Rep. of	1535	57.4	45.8	19.8	9.5	4.7	9.0	11.2	60.0	54.6
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Applying

SP13\_02 SP61014: Jack on a bus with sick man (EXCLUDED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	70 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	74.5	67.4	19.4	3.6	67.4	23.0	9.5	0.1	79.7	69.7
Cyprus	1207	83.9	77.0	10.4	4.5	77.0	14.8	6.5	1.7	84.5	83.2
Iran, Islamic Rep. of	1525	73.1	57.6	12.6	8.7	57.6	21.2	19.0	2.1	73.9	72.2
International Avg. (3)	3775	77.1	67.3	14.1	5.6	67.3	19.7	11.7	1.3	79.3	75.0

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP13\_03 SP61056: Mary's and Jenny's flowers - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	67.8	66.7	31.6	66.7	31.6	1.3	0.4	71.7	64.3
Cyprus	1207	74.0	71.3	25.1	71.3	25.1	1.3	2.2	76.8	71.2
Iran, Islamic Rep. of	1525	59.9	57.6	38.5	57.6	38.5	1.7	2.2	64.7	55.2
International Avg. (3)	3775	67.2	65.2	31.7	65.2	31.7	1.5	1.6	71.1	63.5

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Reasoning

SP13\_04 SP61015: Best environment for shark - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	58.2	57.0	41.0	57.0	41.0	1.6	0.4	58.7	57.7
Cyprus	1207	66.8	63.9	31.8	63.9	31.8	1.9	2.5	67.1	66.5
Iran, Islamic Rep. of	1525	38.7	36.7	58.2	36.7	58.2	2.6	2.4	41.9	35.5
International Avg. (3)	3775	54.6	52.5	43.6	52.5	43.6	2.0	1.8	55.9	53.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP13\_05 SP61113: Boiling water before drinking - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	41.1	33.4	47.9	33.4	47.9	18.3	0.4	37.3	44.7
Cyprus	1207	32.6	24.5	50.7	24.5	50.7	21.4	3.3	26.7	38.3
Iran, Islamic Rep. of	1525	43.3	29.4	38.4	29.4	38.4	28.7	3.5	41.5	45.3
International Avg. (3)	3775	39.0	29.1	45.7	29.1	45.7	22.8	2.4	35.2	42.8

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing  
SP13\_06 SP61107: Property of a liquid - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	60.5	7.2	9.0	22.0	58.4	3.0	0.4	65.6	55.7
Cyprus	1207	42.6	13.4	10.6	27.4	38.2	5.4	4.9	42.5	42.6
Iran, Islamic Rep. of	1525	37.9	11.0	16.2	25.1	32.0	10.5	5.2	37.1	38.8
International Avg. (3)	3775	47.0	10.5	12.0	24.9	42.9	6.3	3.5	48.4	45.7

Science: Physical Science / Reasoning  
SP13\_07 SP61046: Mary dissolving sugar - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	51.3	11.6	13.3	49.3	21.8	3.5	0.4	53.3	49.4
Cyprus	1207	50.6	12.3	13.8	44.4	17.2	6.3	5.9	52.7	48.5
Iran, Islamic Rep. of	1525	42.2	16.2	10.3	35.4	22.0	10.3	5.7	41.3	43.0
International Avg. (3)	3775	48.0	13.4	12.5	43.0	20.4	6.7	4.0	49.1	47.0

Science: Physical Science / Applying  
SP13\_08 SP61047: Object X complete circuit - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	78.0	11.5	74.7	7.0	2.6	3.6	0.6	78.6	77.4
Cyprus	1207	84.0	4.9	76.1	7.1	2.5	2.6	6.9	85.8	82.3
Iran, Islamic Rep. of	1525	74.2	8.0	65.4	10.0	4.6	5.0	6.8	73.8	74.7
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing

SP13\_09 SP61048: Movements due to gravity - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	77.0	74.1	5.3	10.2	6.7	3.0	0.7	73.4	80.3
Cyprus	1207	57.0	48.3	4.5	14.0	17.9	7.5	7.8	52.0	61.9
Iran, Islamic Rep. of	1525	33.8	23.2	8.5	12.4	24.6	23.6	7.7	36.6	30.8
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying

SP13\_10 SP61096: Rocks on beach and in woods - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	57.0	16.4	54.0	16.0	8.3	4.6	0.7	53.6	60.2
Cyprus	1207	37.6	20.9	31.5	20.2	11.2	6.6	9.6	37.4	37.7
Iran, Islamic Rep. of	1525	37.6	28.8	29.9	13.4	7.6	10.7	9.7	36.0	39.1
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing  
SP13\_11 SP61124: Recycle products made of metal (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	28.3	26.6	67.4	26.6	67.4	4.8	1.1	26.5	29.9
Cyprus	1207	28.6	24.3	60.6	24.3	60.6	3.9	11.1	26.1	31.0
Iran, Islamic Rep. of	1525	23.2	18.9	62.7	18.9	62.7	7.4	11.0	20.3	26.1
International Avg. (3)	3775	26.7	23.3	63.6	23.3	63.6	5.4	7.8	24.3	29.0



Science: Earth Science / Knowing

SP13\_11B SP61124B: Recycle products made of metal: run out - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	57.5	52.0	38.4	8.5	1.1	56.1	58.7
Cyprus	1207	57.6	48.6	35.8	4.6	11.1	56.3	58.8
Iran, Islamic Rep. of	1525	65.6	49.9	26.2	12.8	11.0	65.0	66.2
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP13\_11C SP61124C: Recycle products made of metal: plastic - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	79.5	18.4	71.5	9.0	1.1	77.6	81.2
Cyprus	1207	76.5	19.7	64.1	5.1	11.1	74.6	78.4
Iran, Islamic Rep. of	1525	71.0	22.0	53.8	13.2	11.0	69.5	72.6
International Avg. (3)	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	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	83.2	75.1	15.1	8.6	1.1	84.0	82.6
Cyprus	1207	79.1	66.1	17.4	5.4	11.1	75.5	82.6
Iran, Islamic Rep. of	1525	70.9	53.3	21.9	13.8	11.0	70.0	71.9
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP13\_11E SP61124E: Recycle products made of metal: expensive - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	71.4	63.8	25.6	9.5	1.1	70.7	72.0
Cyprus	1207	68.6	57.3	26.3	5.3	11.1	67.3	69.8
Iran, Islamic Rep. of	1525	64.3	47.1	26.1	15.9	11.0	59.3	69.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying  
SP13\_12 SP61116: Temperature graphs (DERIVED) - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	51.7	47.0	43.8	47.0	43.8	4.6	4.6	51.1	52.3
Cyprus	1207	29.1	23.6	57.4	23.6	57.4	5.1	14.0	26.0	32.1
Iran, Islamic Rep. of	1525	24.9	18.1	54.8	18.1	54.8	11.8	15.3	22.8	27.1
International Avg. (3)	3775	35.2	29.6	52.0	29.6	52.0	7.2	11.3	33.3	37.2

Science: Earth Science / Applying

SP13\_12B SP61116B: Temperature graphs: June - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	83.5	74.1	14.7	6.6	4.6	84.1	82.9
Cyprus	1207	58.9	47.3	33.0	5.8	14.0	56.6	61.0
Iran, Islamic Rep. of	1525	73.4	50.8	18.4	15.5	15.3	71.4	75.6
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying  
SP13\_12C SP61116C: Temperature graphs: tropical - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	74.3	22.6	65.5	7.2	4.6	72.7	75.8
Cyprus	1207	58.3	32.9	46.0	7.2	14.0	58.2	58.5
Iran, Islamic Rep. of	1525	61.5	26.0	41.4	17.3	15.3	57.9	65.2
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying

SP13\_12D SP61116D: Temperature graphs: November - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	84.7	73.8	13.4	8.2	4.6	83.1	86.2
Cyprus	1207	82.9	66.0	13.6	6.4	14.0	80.8	85.0
Iran, Islamic Rep. of	1525	61.1	40.5	25.8	18.4	15.3	56.1	66.4
International Avg. (3)	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

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Science: Earth Science / Applying  
SP13\_12E SP61116E: Temperature graphs: Equator - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1043	77.3	19.7	66.8	8.9	4.6	74.7	79.6
Cyprus	1207	69.9	23.7	55.0	7.4	14.0	66.2	73.4
Iran, Islamic Rep. of	1525	53.9	29.1	34.0	21.7	15.3	51.9	55.9
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Knowing

SP14\_01 SP71063: Animals that live in the desert - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	44.2	42.9	54.1	42.9	54.1	2.9	0.0	42.7	45.7
Cyprus	1194	56.9	55.5	42.1	55.5	42.1	1.5	0.9	51.2	62.3
Iran, Islamic Rep. of	1524	50.0	47.8	47.9	47.8	47.9	3.2	1.2	48.1	51.8
International Avg. (3)	3749	50.4	48.8	48.0	48.8	48.0	2.5	0.7	47.4	53.2

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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Science: Life Science / Applying  
SP14\_02 SP71900: Identify another life stage of a caterpillar - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	78.7	4.5	8.2	77.7	8.3	1.4	0.0	80.5	77.1
Cyprus	1194	79.1	4.0	5.0	75.2	10.9	4.0	0.9	79.3	79.0
Iran, Islamic Rep. of	1524	50.8	7.8	6.5	45.5	29.9	9.1	1.3	49.6	52.0
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Life Science / Reasoning

SP14\_04 SP71043: Compare offspring chances of survival for elephant and frog - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	46.0	40.6	47.7	40.6	47.7	11.6	0.2	44.1	47.8
Cyprus	1194	31.6	27.3	59.0	27.3	59.0	11.8	1.9	28.9	34.1
Iran, Islamic Rep. of	1524	4.6	3.1	64.4	3.1	64.4	30.6	2.0	4.4	4.7
International Avg. (3)	3749	27.4	23.6	57.0	23.6	57.0	18.0	1.4	25.8	28.9

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  
SP14\_05 SP71005: Why plant by the window is healthier - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	87.3	80.3	11.7	80.3	11.7	7.7	0.3	88.7	85.9
Cyprus	1194	62.7	56.0	33.3	56.0	33.3	8.1	2.6	61.6	63.7
Iran, Islamic Rep. of	1524	69.3	58.4	25.8	58.4	25.8	13.0	2.8	71.2	67.3
International Avg. (3)	3749	73.1	64.9	23.6	64.9	23.6	9.6	1.9	73.8	72.3

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 / Applying

SP14\_06 SP71118: What happens when water boils - MC - Key: C

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	62.9	11.8	19.4	61.4	4.9	2.2	0.3	64.2	61.7
Cyprus	1194	49.0	18.2	19.1	44.5	8.9	6.1	3.2	44.4	53.4
Iran, Islamic Rep. of	1524	33.6	19.6	25.1	28.5	11.6	11.7	3.5	34.1	33.1
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Physical Science / Knowing  
SP14\_07 SP71139: Energy change in an iron - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	82.4	80.0	7.0	5.5	4.6	2.6	0.3	84.1	80.9
Cyprus	1194	56.6	51.3	16.1	12.9	10.3	5.1	4.2	51.0	61.8
Iran, Islamic Rep. of	1524	84.1	73.1	7.9	2.9	3.0	8.7	4.4	84.5	83.7
International Avg. (3)	3749	74.4	68.1	10.3	7.1	6.0	5.5	3.0	73.2	75.5

Science: Physical Science / Knowing  
SP14\_08 SP71114: Objects Joseph can pick up with a magnet - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	66.0	63.7	32.8	63.7	32.8	3.2	0.3	66.4	65.6
Cyprus	1194	56.7	53.0	40.4	53.0	40.4	2.2	4.3	55.3	58.1
Iran, Islamic Rep. of	1524	44.6	39.6	49.1	39.6	49.1	6.7	4.6	47.0	42.2
International Avg. (3)	3749	55.8	52.1	40.8	52.1	40.8	4.0	3.1	56.2	55.3

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 / Applying

SP14\_09 SP71131: Circuit where the bulb is lit - CR - 1 Point

COUNTRY	N	DIFF %	10 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	45.0	43.0	52.5	43.0	52.5	3.8	0.8	49.0	41.3
Cyprus	1194	68.8	63.4	28.7	63.4	28.7	2.7	5.2	69.7	68.0
Iran, Islamic Rep. of	1524	21.7	20.3	73.2	20.3	73.2	1.8	4.8	19.5	23.8
International Avg. (3)	3749	45.2	42.2	51.4	42.2	51.4	2.7	3.6	46.1	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: Physical Science / Knowing  
SP14\_10 SP71152: Force between rug and sofa - MC - Key: B

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	79.6	4.0	77.9	2.9	13.0	1.1	1.0	82.4	77.2
Cyprus	1194	53.0	5.8	48.4	8.4	28.7	2.5	6.3	47.0	58.6
Iran, Islamic Rep. of	1524	26.1	5.0	23.0	8.1	52.0	6.9	5.0	27.0	25.1
International Avg. (3)	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  
Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP14\_11 SP71218: How sand dunes move - MC - Key: A

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	75.2	73.5	4.9	6.6	12.7	1.2	1.1	76.0	74.5
Cyprus	1194	67.6	61.4	6.5	4.3	18.7	2.0	7.1	64.1	71.0
Iran, Islamic Rep. of	1524	72.7	63.3	6.5	4.5	12.8	5.7	7.2	69.8	75.7
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Applying

SP14\_12 SP71214: Best way to replenish a forest - MC - Key: D

COUNTRY	N	DIFF %	A %	B %	C %	D %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	73.9	6.7	6.7	11.6	70.9	3.0	1.1	77.4	70.6
Cyprus	1194	44.5	15.1	12.1	21.6	39.2	4.3	7.8	41.9	47.0
Iran, Islamic Rep. of	1524	42.3	10.3	12.1	25.0	34.8	9.5	8.2	39.9	44.8
International Avg. (3)	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

Produced by TIMSS & PIRLS International Study Center at Boston College

Science: Earth Science / Knowing

SP14\_13 SP71213: Benefit of using sunlight or wind to produce electricity - CR - 1 Point

COUNTRY	N	DIFF %	10 %	11 %	79 %	1pt %	0pt %	OMITTED %	NOT REACHED %	GIRL PCT RIGHT	BOY PCT RIGHT
Bulgaria	1031	56.2	5.0	43.2	37.6	48.3	37.6	10.8	3.4	58.8	53.9
Cyprus	1194	22.5	4.8	12.8	60.6	17.5	60.6	11.1	10.8	20.4	24.3
Iran, Islamic Rep. of	1524	21.9	11.8	4.9	59.8	16.7	59.8	12.0	11.5	23.8	19.9
International Avg. (3)	3749	33.5	7.2	20.3	52.6	27.5	52.6	11.3	8.5	34.3	32.7

DIFF = Percent correct

Because of missing gender information, some totals may appear inconsistent

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