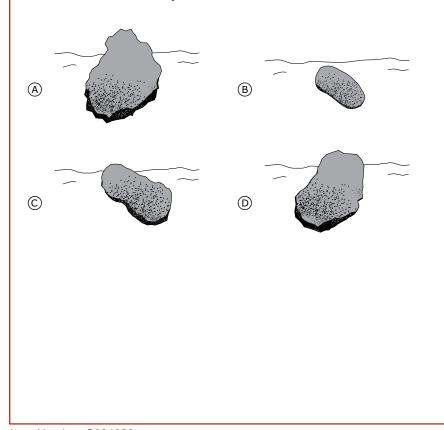
Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Conceptual Understanding

Rock carried farthest down the river

Lily found four rocks of the same material in a riverbed. They had different shapes and sizes.

Which rock has most likely been carried the farthest down the river?



Item Number: S031082

Overall Percent Correct

Hungary Lithuania Chinese Taipei England Netherlands Russian Federation Belgium (Flemish) Australia Latvia New Zealand United States Italy Moldova, Republic of	86 83 82 80 79 79 78 77 76 76 75	A A A A A A A A A A A A A A A A A A A
Cyprus	73	O
Slovenia	71	0
Scotland	70	0
International average	69	
Hong Kong, SAR	68	O
Japan	64	
Norway	63	
Armenia	60	
Iran, Islamic Republic of	57	* * * * * * * * * * * * * * * * * * *
Singapore	57	
Philippines	50	V
Morocco	47	•
Tunisia	24	•

Country average vs. International average:

Higher A
Not different O
Lower

Not different O

Correct Response:

В

Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Factual Knowledge

Earth's surface

What covers most of the Earth's surface?

- (A) Water
- B Bare rock
- © Farm land
- (D) Cities and towns

Overall Percent Correct

United States	86	A
Lithuania	83	
Russian Federation	82	
Singapore	82	
England	82	
Armenia	80	
Latvia	79	
Moldova, Republic of	79	
Australia	77	
Norway	77	
Scotland	77	
New Zealand	76	
Chinese Taipei	75	
Hungary	74	
Slovenia	72	0
Hong Kong, SAR	71	0
Italy	71	0
International average	68	
Belgium (Flemish)	65	0
Japan	60	\blacksquare
Netherlands	56	▼
Cyprus	54	▼ ▼
Philippines	53	\blacksquare
Iran, Islamic Republic of	45	\blacksquare
Morocco	30	\blacksquare
Tunisia	20	\blacksquare

Country average vs. International average:

Higher
Not different
Lower

Item Number: S011003

Correct Response:

Α

Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Factual Knowledge

Gas we need to breathe

What gas in the air do we need to breathe in order to live?

- (A) nitrogen
- (B) oxygen
- © carbon dioxide
- (D) hydrogen
- E water vapor

Overall Percent Correct

Hungary	95	A
Hong Kong, SAR	94	
Netherlands	94	
Singapore	94	
Russian Federation	93	
Slovenia	93	
Belgium (Flemish)	93	
Australia	91	
Cyprus	91	
Lithuania	90	
United States	90	
Italy	89	
New Zealand	89	
England	89	
Scotland	88	
Chinese Taipei	85	0
Latvia	85	0
International average	84	
Norway	82	O
Iran, Islamic Republic of	78	▼ ▼ ▼
Moldova, Republic of	77	•
Japan	75	•
Armenia	72	
Morocco	62	\blacksquare
Tunisia	59	\blacksquare
Philippines	53	

Country average vs. International average:

Higher
Not different
Lower

Item Number: S011012

Correct Response:

В

Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Factual Knowledge

Iron and aluminum

Large amounts of metals like iron and aluminum are found in

- \bigcirc dead trees
- (B) water
- © animal bones
- (D) oil wells
- (E) rocks

Overall Percent Correct

Japan	69	
Hong Kong, SAR	65	_
Italy	64	
Russian Federation	58	
Cyprus	53	
Hungary	51	
Singapore	51	
Chinese Taipei	48	O
Moldova, Republic of	48	O
United States	48	0
Netherlands	47	O
England	45	O
International average	45	
Armenia	44	0
Armenia Lithuania	44 44	0
7 1111101110		0
Lithuania	44	0 0
Lithuania New Zealand	44 44	0 0 0
Lithuania New Zealand Belgium (Flemish)	44 44 44	0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia	44 44 44 43	0 0 0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of	44 44 44 43 43	0 0 0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of Norway	44 44 44 43 43 42	0 0 0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of Norway Latvia	44 44 44 43 43 42 40	0 0 0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of Norway Latvia Scotland	44 44 44 43 43 42 40 35	0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of Norway Latvia Scotland Philippines	44 44 44 43 43 42 40 35 33	0 0 0 0 0 0
Lithuania New Zealand Belgium (Flemish) Australia Iran, Islamic Republic of Norway Latvia Scotland Philippines Slovenia	44 44 44 43 43 42 40 35 33 33	0 0 0 0 0 0

Country average vs. International average:

Higher O
Lower

A

O

Item Number: S011013

Correct Response:

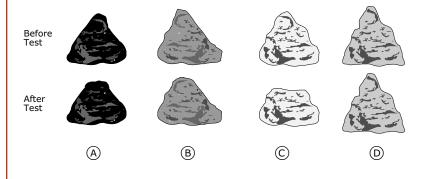
E

Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Reasoning and Analysis

Terry's rocks

Terry tested four rocks to see how hard they are. He rubbed each of them against some hard steel for one minute. He drew pictures of what they looked like before he rubbed them and after he rubbed them.

Circle which of Terry's rocks is the hardest.



Item Number: S011023

Overall Percent Correct

Netherlands	85	A
England	85	
United States	84	
Hong Kong, SAR	83	
Japan	80	
Singapore	80	
Chinese Taipei	78	
Belgium (Flemish)	78	
Latvia	77	
Slovenia	74	
Russian Federation	72	
Scotland	72	
Australia	71	
Italy	70	
New Zealand	70	
Norway	68	O
International average	66	
Hungary	65	0
Cyprus	64	O
Malalau Dan dalla af		_
Moldova, Republic of	61	0
Lithuania	61 59	▼
' '	٠.	▼ ▼
Lithuania	59	▼ ▼
Lithuania Armenia	59 47	▼▼▼
Lithuania Armenia Iran, Islamic Republic of	59 47 38	♥♥♥♥
Lithuania Armenia Iran, Islamic Republic of Philippines	59 47 38 36	▼▼▼▼

Country average vs. International average:

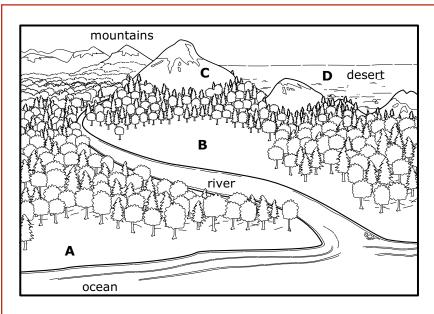
Higher △
Not different ○
Lower ▼

Correct Response:

D

Content Domain	Main Topic	Cognitive Domain
EARTH SCIENCE	Earth's Structure and Physical Features	Reasoning and Analysis

Best location to grow crops



Look at the picture above. Where is the best location to grow crops?

- (A) Location A
- (B) Location B
- (c) Location C
- (D) Location D

Item Number: S031379

Overall Percent Correct

Japan Hong Kong, SAR Latvia United States Hungary Lithuania Netherlands England Italy Scotland Chinese Taipei Australia New Zealand Norway Russian Federation	75 70 70 69 69 69 68 68 67 66 63 63	A A A A A A A A A A A A A A A A A A A
Singapore Cyprus	62 59	A
International average	57	
Slovenia Moldova, Republic of Belgium (Flemish) Armenia Iran, Islamic Republic of Morocco Philippines Tunisia	56 54 44 34 32 27 24 22	0 0 * * *

Country average vs. International average:

Higher	
Not different	0
Lower	•

Correct Response:

В