

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Human Health	Conceptual Understanding

Washing hands

How can washing your hands help keep you from getting sick?

- (A) It washes away germs.
- (B) It makes your hands look nice.
- (C) It keeps your skin from drying out.
- (D) It makes your hands warmer.

Overall Percent Correct

Chinese Taipei	98	▲
Japan	98	▲
Hong Kong, SAR	97	▲
United States	97	▲
England	96	▲
Scotland	96	▲
Latvia	95	▲
New Zealand	95	▲
Russian Federation	95	▲
Italy	94	▲
Singapore	94	▲
Australia	92	▲
Lithuania	92	▲
Cyprus	91	▲
Slovenia	89	○
Netherlands	87	○
Hungary	86	○
Norway	86	○
International average	86	
Iran, Islamic Republic of	84	○
Moldova, Republic of	84	○
Armenia	69	▼
Belgium (Flemish)	67	▼
Philippines	62	▼
Morocco	58	▼
Tunisia	47	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S011031

Correct Response:

A

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Human Health	Conceptual Understanding

Protection from the sun

People need to protect themselves from getting too much sun. Name one thing that can happen to their bodies if they are not protected from the sun.

Item Number: S031330

SCORING

Note: To be correct, responses must mention a specific effect. General or vague responses that refer only to illness, etc., should be scored as incorrect.

Correct Response

- Mentions skin cancer or cancer.
Examples: *They will get sunburn or sun cancer and might die.*
They might get skin cancer.
Cancer.
- Mentions sunburn, tanning, or similar.
Examples: *They will get sunburn.*
Sunburn and heat rash.
The sun could burn their skin and their skin would turn red.
They can get a sun tan if they are not protected from the sun.
Their skin can get burned from the sun.
Their skin changes into a darker color when they lie in the sun for a long time.
- Mentions a heat-related illness such as sun stroke, dehydration, heat rash, or similar.
Examples: *People can get heat stroke from the hot sun.*
Heat rash.
Stroke could happen.
- Other correct
Examples: *You could go blind if you looked directly into the sun.*
Sun allergy.

Incorrect Response

- Mentions only the sun causing illness (or similar). [No specific effect identified.]
Examples: *Getting too much sun makes you feel sick.*
It can make people ill.
It's bad for the whole body.
- Other incorrect (including crossed out/erased, stray marks, illegible, or off task)

Overall Percent Correct

Netherlands	87	▲
England	84	▲
New Zealand	83	▲
Australia	81	▲
Hungary	81	▲
Scotland	80	▲
United States	79	▲
Lithuania	78	▲
Latvia	77	▲
Belgium (Flemish)	76	▲
Slovenia	74	▲
Italy	72	▲
Singapore	72	▲
Norway	71	▲
Cyprus	69	▲
Russian Federation	69	○
Japan	67	○
Chinese Taipei	66	○
International average	65	
Hong Kong, SAR	61	○
Moldova, Republic of	57	▼
Iran, Islamic Republic of	47	▼
Armenia	41	▼
Tunisia	22	▼
Philippines	21	▼
Morocco	7	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Protection from the sun (continued)

Item Number: S031330

Student Responses

Correct Response:

People need to protect themselves from getting too much sun. Name one thing that can happen to their bodies if they are not protected from the sun.

skincancer

Incorrect Response:

People need to protect themselves from getting too much sun. Name one thing that can happen to their bodies if they are not protected from the sun.

burn up and die.

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Human Health	Factual Knowledge

Plant grown for food

Which plant is grown for food?

Ⓐ Rice

Ⓑ Tobacco

Ⓒ Orchid

Ⓓ Cotton

Overall Percent Correct

Chinese Taipei	99	▲
Hong Kong, SAR	96	▲
Russian Federation	96	▲
Lithuania	93	▲
Latvia	92	▲
Cyprus	88	▲
Hungary	88	▲
Japan	88	▲
Moldova, Republic of	88	▲
Armenia	87	▲
Iran, Islamic Republic of	87	▲
Italy	85	▲
Singapore	84	○
England	84	○
Scotland	84	○
Norway	83	○
Slovenia	83	○
International average	82	
Netherlands	80	○
Philippines	75	▼
United States	75	▼
Belgium (Flemish)	74	▼
Australia	72	▼
New Zealand	65	▼
Morocco	58	▼
Tunisia	49	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S011021

Correct Response:	A
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Reproduction and Heredity	Conceptual Understanding

Effect on adult height

What will most likely affect your adult height?

Ⓐ The height of your parents

Ⓑ The height of your brothers and sisters

Ⓒ Your hair color

Ⓓ Your weight

Overall Percent Correct

Russian Federation	75	▲
Netherlands	68	▲
Norway	61	▲
Lithuania	59	▲
Slovenia	57	▲
Italy	56	▲
Moldova, Republic of	51	▲
Latvia	49	▲
England	49	▲
Hungary	48	▲
Belgium (Flemish)	45	○
New Zealand	44	○
International average	43	
Iran, Islamic Republic of	42	○
Australia	41	○
Singapore	41	○
United States	38	▼
Scotland	38	▼
Armenia	35	▼
Philippines	29	▼
Cyprus	27	▼
Chinese Taipei	26	▼
Hong Kong, SAR	25	▼
Japan	25	▼
Tunisia	22	▼
Morocco	20	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S011033

Correct Response:	A
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Reproduction and Heredity	Conceptual Understanding

Explain yellow color of a plant

A plant has yellow flowers. What best explains why the flowers are yellow?

(A) The sunshine colored the flowers yellow.

(B) The flowers of the parent plants were yellow.

(C) It was very warm when they flowered.

(D) It rained every day.

Overall Percent Correct

Italy	79	▲
Lithuania	77	▲
Cyprus	70	▲
Russian Federation	66	▲
Singapore	64	▲
Latvia	63	▲
Hungary	62	▲
Japan	62	▲
Armenia	60	▲
Hong Kong, SAR	60	▲
Belgium (Flemish)	59	▲
Moldova, Republic of	58	○
Netherlands	57	○
England	56	○
Norway	54	○
International average	54	
Chinese Taipei	53	○
United States	46	▼
Australia	43	▼
Slovenia	43	▼
Scotland	43	▼
New Zealand	42	▼
Philippines	38	▼
Morocco	29	▼
Iran, Islamic Republic of	28	▼
Tunisia	28	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S031269

Correct Response:	B
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Conceptual Understanding

Body's use of excess food

If the body takes in more food than it uses,

Ⓐ breathing becomes faster.

Ⓑ weight is lost.

Ⓒ the heart rate increases.

Ⓓ the food is stored as fat.

Overall Percent Correct

Japan	86	▲
Lithuania	82	▲
Hungary	81	▲
Netherlands	80	▲
Hong Kong, SAR	77	▲
Latvia	76	▲
Singapore	76	▲
United States	76	▲
England	76	▲
Belgium (Flemish)	76	▲
New Zealand	75	▲
Scotland	75	▲
Italy	74	▲
Moldova, Republic of	74	▲
Norway	74	▲
Russian Federation	71	○
Slovenia	71	○
Chinese Taipei	70	○
International average	69	
Australia	68	○
Armenia	58	▼
Cyprus	56	▼
Iran, Islamic Republic of	46	▼
Tunisia	41	▼
Philippines	40	▼
Morocco	39	▼

Country average vs.
International average:

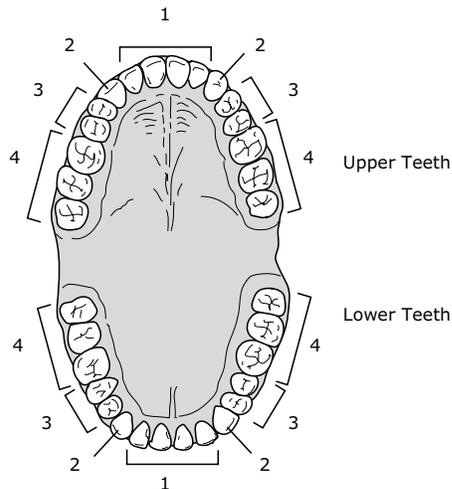
Higher	▲
Not different	○
Lower	▼

Item Number: S011004

Correct Response:	D
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Conceptual Understanding

Teeth



The teeth that people use for grinding their food are labeled in the picture as

- (A) 1 only
- (B) 3 only
- (C) 1 and 2
- (D) 3 and 4

Overall Percent Correct

Japan	90	▲
Netherlands	88	▲
Lithuania	87	▲
Singapore	86	▲
Russian Federation	84	▲
Hong Kong, SAR	82	▲
Hungary	82	▲
Latvia	82	▲
Chinese Taipei	81	▲
United States	81	▲
Moldova, Republic of	80	▲
Belgium (Flemish)	79	▲
International average	74	
England	73	○
Cyprus	72	○
Iran, Islamic Republic of	72	○
New Zealand	71	○
Armenia	70	▼
Italy	70	○
Scotland	70	○
Norway	69	▼
Australia	68	▼
Slovenia	68	▼
Philippines	54	▼
Tunisia	45	▼
Morocco	43	▼

Country average vs. International average:

- Higher ▲
- Not different ○
- Lower ▼

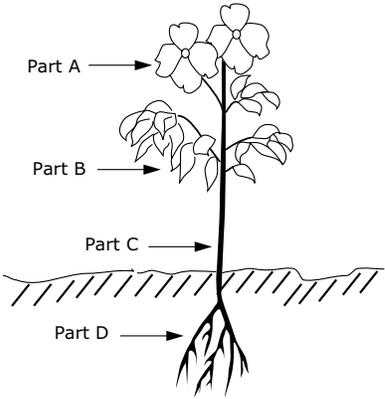
Item Number: S011015

Correct Response:	D
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Conceptual Understanding

Plants and water absorption

Which part of the plant takes in the MOST water?



Part A →

Part B →

Part C →

Part D →

(A) Part A
 (B) Part B
 (C) Part C
 (D) Part D

Item Number: S011026

Overall Percent Correct

Hungary	95	▲
Japan	94	▲
Cyprus	92	▲
Moldova, Republic of	92	▲
Armenia	91	▲
Australia	90	○
England	90	▲
Latvia	89	○
New Zealand	89	▲
Russian Federation	89	○
Slovenia	89	▲
Italy	88	○
Netherlands	88	○
United States	88	▲
Hong Kong, SAR	87	○
Norway	87	○
Belgium (Flemish)	87	○
Chinese Taipei	86	○
Lithuania	86	○
International average	86	
Singapore	85	○
Scotland	83	▼
Philippines	82	○
Morocco	75	▼
Iran, Islamic Republic of	74	▼
Tunisia	64	▼

Country average vs. International average:	
Higher	▲
Not different	○
Lower	▼

Correct Response: D

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Conceptual Understanding

What the body does to cool down

Beth is playing soccer. She gets very hot. Name one thing her body does to cool down.

Overall Percent Correct

Hong Kong, SAR	55	▲
Netherlands	45	▲
United States	38	▲
Russian Federation	36	▲
Australia	32	▲
England	32	▲
Latvia	30	▲
Italy	29	▲
New Zealand	29	▲
Scotland	29	▲
Chinese Taipei	27	▲
Belgium (Flemish)	26	○
Singapore	25	○
Norway	24	○
Slovenia	24	○
International average	24	
Armenia	21	○
Japan	20	▼
Moldova, Republic of	19	▼
Hungary	12	▼
Lithuania	12	▼
Iran, Islamic Republic of	9	▼
Cyprus	8	▼
Tunisia	4	▼
Morocco	3	▼
Philippines	2	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S031246

SCORING

Correct Response

- States that the body releases sweat or equivalent.

Examples: *Her body sweats to cool down.*

She sweats.

Sweat.

It gives off sweat.

Perspire

- Other correct

Examples: *Blood vessels dilate.*

Incorrect Response

- Refers only to voluntary or external activities.

Examples: *She could jump into a lake.*

Beth could fan her hand in front of her face.

Drink water.

She needs to rest.

Take a shower.

She could take her jacket off.

Do a cool down exercise.

- Other incorrect (including crossed out/erased, stray marks, illegible, or off task)

Examples: *Her heart beats faster.*

What the body does to cool down (continued)

Item Number: S031246

Student Responses

Correct Response:

Beth is playing soccer. She gets very hot. Name one thing her body does to cool down.

Sweat

Incorrect Response:

Beth is playing soccer. She gets very hot. Name one thing her body does to cool down.

Her body cools down by sitting down and taking a deep breath.

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Factual Knowledge

Air when a person breathes

Where does air go when a person breathes in?

(A) Into the heart
 (B) Into the stomach
 (C) Into the lungs
 (D) Into the liver

Item Number: S011025

Overall Percent Correct

Lithuania	95	▲
Hungary	94	▲
Russian Federation	93	▲
Hong Kong, SAR	92	▲
Italy	92	▲
Latvia	92	▲
Slovenia	91	▲
England	91	▲
Australia	90	▲
Moldova, Republic of	90	▲
Norway	89	▲
United States	89	▲
Scotland	89	▲
Singapore	88	▲
New Zealand	87	▲
Netherlands	86	▲
Cyprus	84	○
Belgium (Flemish)	84	○
International average	83	
Iran, Islamic Republic of	81	○
Armenia	76	▼
Tunisia	68	▼
Chinese Taipei	67	▼
Morocco	67	▼
Japan	58	▼
Philippines	39	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Correct Response:

C

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Factual Knowledge

Interpretation of senses

Humans interpret seeing, hearing, tasting and smelling in the

Ⓐ brain
 Ⓑ spinal cord
 Ⓒ receptors
 Ⓓ skin

Overall Percent Correct

Russian Federation	84	▲
Moldova, Republic of	82	▲
Norway	79	▲
Hong Kong, SAR	77	▲
Hungary	75	▲
England	69	▲
Belgium (Flemish)	69	▲
New Zealand	68	▲
Australia	67	▲
United States	66	▲
Scotland	65	▲
Singapore	64	▲
Japan	62	○
Latvia	61	○
International average	59	
Netherlands	52	▼
Morocco	48	▼
Chinese Taipei	46	▼
Italy	43	▼
Slovenia	40	▼
Philippines	39	▼
Lithuania	38	▼
Iran, Islamic Republic of	37	▼
Tunisia	23	▼
Armenia	0	▼
Cyprus	0	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S012033

Correct Response:	A
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Reasoning and Analysis

Pulse/breathing rate after exercise

Immediately before and after running a 50 meter race, your pulse and breathing rates are taken. What changes would you expect to find?

Ⓐ no change in pulse but a decrease in breathing rate

Ⓑ an increase in pulse but no change in breathing rate

Ⓒ an increase in pulse and breathing rate

Ⓓ a decrease in pulse and breathing rate

Ⓔ no change in either

Overall Percent Correct

Chinese Taipei	92	▲
Netherlands	86	▲
Hong Kong, SAR	85	▲
Singapore	85	▲
Lithuania	78	▲
Norway	77	▲
Slovenia	77	▲
Hungary	74	▲
England	73	▲
Japan	72	▲
Russian Federation	72	▲
Latvia	70	○
Australia	67	○
International average	67	
United States	65	○
Italy	63	○
New Zealand	63	▼
Scotland	63	○
Armenia	60	▼
Moldova, Republic of	59	▼
Belgium (Flemish)	58	▼
Cyprus	52	▼
Iran, Islamic Republic of	52	▼
Tunisia	48	▼
Morocco	47	▼
Philippines	29	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

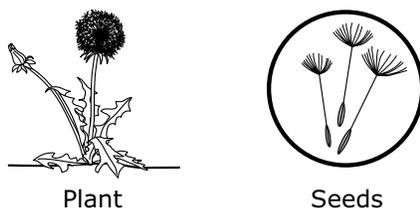
Item Number: S012010

Correct Response:	C
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Structure, Function, and Life Processes in Organisms	Reasoning and Analysis

Garden: how seeds get into garden

Rebecca planted her garden. After a few months, she noticed some plants growing that she had not planted. She knew that the plants must have grown from seeds. She collected some seeds from one of the plants. The plant and seeds are shown in the picture below.



How did the seeds most likely get into her garden?

Overall Percent Correct

Japan	81	▲
Chinese Taipei	69	▲
Netherlands	68	▲
Belgium (Flemish)	61	▲
England	59	▲
Lithuania	58	▲
Russian Federation	57	▲
Hungary	56	▲
Latvia	56	▲
Hong Kong, SAR	53	▲
United States	47	▲
Slovenia	43	○
Italy	42	○
International average	42	
Moldova, Republic of	40	○
Australia	39	○
Singapore	39	○
New Zealand	34	▼
Norway	33	▼
Scotland	33	▼
Cyprus	27	▼
Armenia	18	▼
Iran, Islamic Republic of	11	▼
Philippines	10	▼
Tunisia	5	▼
Morocco	3	▼

Country average vs.
International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S031442

SCORING

Correct Response

- States that the seeds were blown into the garden (by the wind) or similar.

Examples: *The wind blew them.*

They flew into the garden.

They were carried through the air.

Someone blew the plant for wishes and the seeds flew off.

- Other correct

Examples: *Birds could have dropped them.*

Incorrect Response

- States only that someone planted the seeds there (or similar).
Examples: *Rebecca must have planted them and forgot about it.*
Somebody else put them there.
- States only that the seeds came from a plant. [No method of dispersal included.]
Examples: *The seeds fell from the plant.*
Some other plants might have grown the seeds.
She got them from another plant.
- Other incorrect (including crossed out/erased, stray marks, illegible or off task)

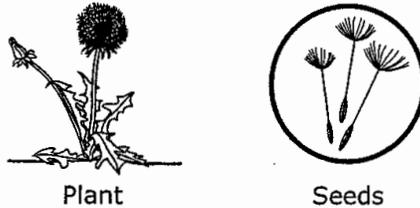
Garden: how seeds get into garden (continued)

Item Number: S031442

Student Responses

Correct Response:

Rebecca planted her garden. After a few months, she noticed some plants growing that she had not planted. She knew that the plants must have grown from seeds. She collected some seeds from one of the plants. The plant and seeds are shown in the picture below.

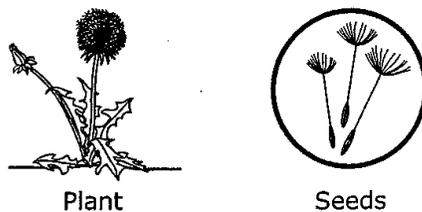


How did the seeds most likely get into her garden?

They blew off the plant.

Incorrect Response:

Rebecca planted her garden. After a few months, she noticed some plants growing that she had not planted. She knew that the plants must have grown from seeds. She collected some seeds from one of the plants. The plant and seeds are shown in the picture below.



How did the seeds most likely get into her garden?

The seeds fell from certain trees.

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Types, Characteristics, and Classification of Living Things	Conceptual Understanding

Which doesn't lay eggs

Which one of these animals does NOT lay eggs?

Ⓐ chickens

Ⓑ dogs

Ⓒ frogs

Ⓓ turtles

Overall Percent Correct

Singapore	97	▲
United States	97	▲
Belgium (Flemish)	97	▲
Australia	96	▲
Russian Federation	96	▲
Scotland	96	▲
Italy	95	▲
Lithuania	95	▲
England	95	▲
Chinese Taipei	94	▲
Latvia	94	▲
Norway	94	▲
Japan	93	▲
New Zealand	92	▲
Moldova, Republic of	91	○
Netherlands	91	○
Slovenia	91	○
Hungary	90	○
Hong Kong, SAR	89	○
International average	89	
Cyprus	88	○
Armenia	82	▼
Iran, Islamic Republic of	79	▼
Philippines	75	▼
Morocco	69	▼
Tunisia	52	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S011016

Correct Response:	B
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Types, Characteristics, and Classification of Living Things	Conceptual Understanding

Are plants living or nonliving

Are plants living or nonliving?

(Check one box.)

Living

Nonliving

Explain your answer.

Item Number: S031218

SCORING

Correct Response

- **LIVING** with a correct explanation that refers to reproduction, response to stimuli or cellular structure (or similar).

Examples: *They reproduce.*

They respond to light (a stimulus).

They are made up of cells.

Plants can move, grow and reproduce.

They reproduce and respond to changes.

- **LIVING** with a correct explanation that refers to basic needs, life/death cycle, growth, movement, functions, etc.

Examples: *They make their own food.*

They breathe.

They grow.

They require air (oxygen).

They need light to grow.

They need air, water and food or they will die.

They can die.

They eat and drink.

Note: Some human terms for function are accepted as applied to plants even if they are not strictly correct. For example, 'breathe' is accepted as meaning that plants take in air (oxygen, carbon dioxide) and 'drink' is accepted as meaning that plants take in water.

- Other correct

Incorrect Response

- **LIVING** with no explanation or an incorrect explanation.

Examples: *They are green.*

Because of sun and rain.

- **NON-LIVING** with or without explanation.

Other incorrect (including crossed out/erased, stray marks, illegible, or off task)

Overall Percent Correct

Singapore	84	▲
Japan	77	▲
Latvia	72	▲
Italy	71	▲
Netherlands	70	▲
Hungary	66	▲
Chinese Taipei	65	▲
Belgium (Flemish)	64	▲
Slovenia	63	▲
England	63	▲
New Zealand	61	▲
Australia	60	▲
United States	60	▲
Hong Kong, SAR	57	○
Lithuania	55	○
International average	53	
Scotland	50	○
Cyprus	48	▼
Moldova, Republic of	43	▼
Norway	41	▼
Iran, Islamic Republic of	40	▼
Russian Federation	40	▼
Armenia	32	▼
Tunisia	20	▼
Philippines	19	▼
Morocco	14	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Are plants living or nonliving (continued)

Item Number: S031218

Student Responses

Correct Response:

Are plants living or nonliving?

(Check one box.)

Living

Nonliving

Explain your answer.

Plants are living because they grow just like we do.

Incorrect Response:

Are plants living or nonliving?

(Check one box.)

Living

Nonliving

Explain your answer.

If they are nonliving they could not stand up.

Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Types, Characteristics, and Classification of Living Things	Factual Knowledge

Group that consists only of living things

Which group consists only of living things?

Ⓐ rabbit, seed, bird

Ⓑ seed, bird, wind

Ⓒ volcano, candle, rabbit

Ⓓ wind, candle, volcano

Overall Percent Correct

Italy	89	▲
Singapore	89	▲
Hong Kong, SAR	87	▲
Japan	87	▲
Russian Federation	86	▲
Hungary	84	▲
Latvia	78	▲
Moldova, Republic of	76	▲
Chinese Taipei	72	▲
Netherlands	72	○
United States	72	▲
England	72	○
Cyprus	69	○
Scotland	69	○
International average	69	
Australia	65	○
Lithuania	65	▼
New Zealand	64	▼
Belgium (Flemish)	64	▼
Iran, Islamic Republic of	61	▼
Armenia	58	▼
Slovenia	58	▼
Norway	50	▼
Philippines	49	▼
Morocco	41	▼
Tunisia	40	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S031212

Correct Response:	A
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Content Domain	Main Topic	Cognitive Domain
LIFE SCIENCE	Types, Characteristics, and Classification of Living Things	Factual Knowledge

Which are insects

Which of these are insects?

1 2 3 4

Ⓐ 1 and 3 only
 Ⓑ 1 and 4 only
 Ⓒ 2 and 4 only
 Ⓓ 3 and 4 only

Overall Percent Correct

Lithuania	94	▲
Singapore	92	▲
Italy	91	▲
Japan	91	▲
Russian Federation	91	▲
United States	91	▲
Norway	90	▲
Chinese Taipei	89	▲
Netherlands	89	▲
Belgium (Flemish)	89	▲
Australia	88	▲
Hungary	86	▲
England	86	▲
Cyprus	85	▲
Moldova, Republic of	85	▲
New Zealand	85	▲
Latvia	84	▲
Scotland	83	○
Hong Kong, SAR	81	○
International average	81	
Slovenia	79	○
Iran, Islamic Republic of	76	▼
Philippines	64	▼
Armenia	59	▼
Tunisia	49	▼
Morocco	35	▼

Country average vs. International average:

Higher	▲
Not different	○
Lower	▼

Item Number: S031349

Correct Response:	A
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