

Past-paper walk-through

Characteristics of living organisms ■ 1.1

eXercise

Questions in this set

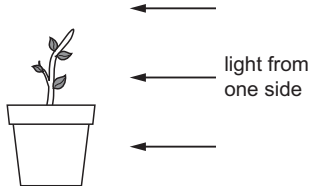
- 0610/21 N25 Q1 ■ 1 mark
- 0610/23 N25 Q1 ■ 1 mark
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- 0610/22 J25 Q1 ■ 1 mark
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Question 1

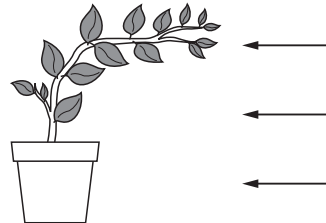
0610/21 N25 ■ Q1 ■ 1 mark

- 1 The diagrams show a plant at the start of an experiment, and the same plant two weeks later.

start of the experiment



after two weeks



Which characteristics of living organisms are demonstrated by this experiment?

Question 1

- A** excretion and growth
- B** excretion and reproduction
- C** growth and sensitivity
- D** sensitivity and reproduction

Solution 1

Answer: **C**

Why

- The shoot has grown taller, which is growth.
- It has also bent towards the light coming from one side, which is sensitivity.
- So both growth and sensitivity are being shown.

Question 1

0610/23 N25 ■ Q1 ■ 1 mark

- 1** What is a characteristic of all living organisms?
- A** breathing
 - B** photosynthesis
 - C** reproduction

D transpiration

Solution 1

Answer: **C**

Why

- Breathing, photosynthesis and transpiration are each done by only *some* organisms.
- Reproduction is one of the seven characteristics shared by all living things.
- So reproduction is the only universal one of the four.

Question 1

0610/21 J25 ■ Q1 ■ 1 mark

- 1 Which characteristic of living things requires carbon dioxide to diffuse into a leaf?
- A excretion
 - B movement
 - C nutrition
 - D respiration

Solution 1

Answer: **C**

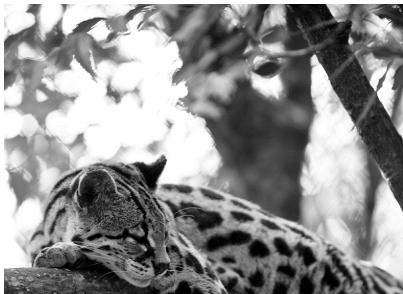
Why

- Carbon dioxide entering a leaf is the raw material for photosynthesis.
- Photosynthesis is how a plant makes its food, which is nutrition.
- Respiration *releases* carbon dioxide rather than requiring it.

Question 1

0610/22 J25 ■ Q1 ■ 1 mark

- 1 The photograph shows an animal called a margay.



Question 1



Four processes that occur in the margay are listed.

- excretion
- growth

Question 1

- digestion
- respiration

How many of the processes that occur in the margay are characteristics of all living organisms?

A 1

B 2

C 3

D 4

Solution 1

Answer: **C**

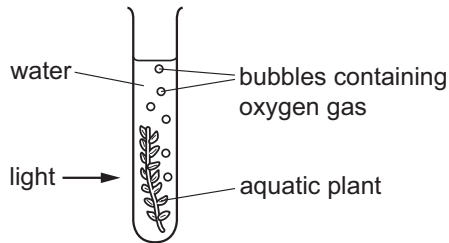
Why

- The seven characteristics of living things are movement, respiration, sensitivity, growth, reproduction, excretion and nutrition.
- Excretion, growth and respiration are all on that list.
- Digestion is *not* – it is part of nutrition rather than a characteristic in its own right.

Question 1

0610/23 J25 ■ Q1 ■ 1 mark

- 1 The diagram shows an aquatic plant in light.



What is a characteristic of **all** living things that is demonstrated in the diagram?

Question 1

- A** breathing
- B** nutrition
- C** photosynthesis
- D** respiration

Solution 1

Answer: **B**

Why

- Bubbles of oxygen are being released, which is a product of photosynthesis.
- Photosynthesis is how the plant makes its own food.
- Making food is nutrition, one of the seven characteristics of living things.