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PRACTICE QUESTION PAPER • ORIGINAL QUESTIONS IN THE STYLE OF CAMBRIDGE

Science

Primary - Stage 4

Paper 1

Time: 45 minutes

Candidate name

Class

Date

You must answer on the question paper.

You will need: pencil, pen, ruler.

INSTRUCTIONS

- Answer **all** questions.
- Write your answers in the spaces provided.
- Use a pencil for drawings. Use a pen or pencil for writing.
- Read each question carefully before you answer.

INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [].

For examiner use

Total / 50

- 1 Complete the sentences using words from the list. [3]
Each word can be used once.

cutting grinding tearing

Incisors are used for food.

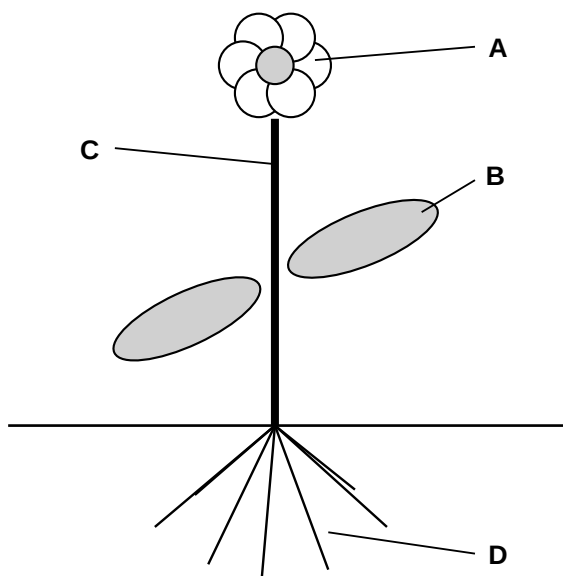
Canines are used for food.

Molars are used for food.

- 2 Give **one** way to keep your teeth healthy. [1]

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- 3 The diagram shows a plant.



Write the name of each part. Choose words from the list. [4]
flower leaf root stem

A B

C D

- 4 Look at the plant in question 3. [1]
(a) Which letter shows the part that takes in water from the soil?

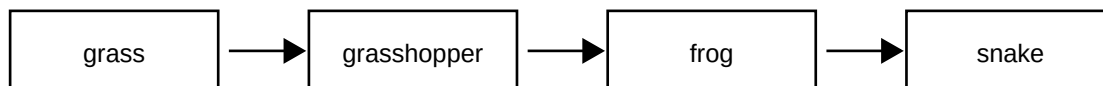
Answer

- (b) Give **one** thing, other than water, that a plant needs to grow well. [1]

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5 Here is a food chain.



- (a) Which living thing in the food chain is the **producer**? [1]

Answer

- (b) Which animal is the **predator** of the frog? [1]

Answer

- (c) What does an arrow in a food chain mean? [1]

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6 Look at the food chain in question 5.

All the frogs leave the area.

- (a) What happens to the number of grasshoppers? [1]

Answer

- (b) Give a reason for your answer to part (a). [1]

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- 7 (a) What is a habitat? [1]

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- (b) Give **one** way a camel is adapted to live in a hot desert. [1]

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- 8 (a) Give **one** way a polar bear is adapted to live in a very cold place. [1]

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- (b) A cactus has spines instead of large leaves. [1]
Suggest how this helps the cactus to survive in the desert.

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- 9 Complete the table. Write **solid**, **liquid** or **gas** in each box. [3]

Description	State of matter
keeps its own shape and its own volume	
flows and takes the shape of its container, but its volume stays the same	
spreads out to fill its container and can be squashed	

- 10 (a) Water in a puddle slowly changes into water vapour. [1]
What is this change called?

Answer

- (b) Water vapour touches a cold window and turns into drops of water. [1]
What is this change called?

Answer

- (c) What is the name of the change when a solid turns into a liquid? [1]

Answer

- 11** Amira wants to find out how the place affects how fast a wet cloth dries.
She hangs three identical wet cloths in three different places.
She measures how long each cloth takes to dry. The table shows her results.

Place	Conditions	Time for the cloth to dry (minutes)
A	warm and windy	25
B	warm, no wind	40
C	cool, no wind	90

- (a) Which place makes the cloth dry fastest? [1]

Answer

- (b) Which **two** places should Amira compare to find out the effect of temperature only? [1]

Answer

- (c) Give **one** thing Amira must keep the same to make it a fair test. [1]

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- 12** Look at Amira's results in question 11.

- (a) Describe what the results show. [1]

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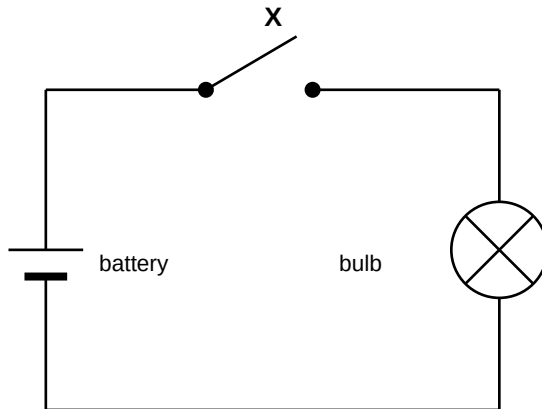
- (b) Name a piece of equipment Amira could use to measure the time. [1]

Answer

- (c) Amira repeats the investigation. Why is this a good idea? [1]

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- 13** The diagram shows an electrical circuit.



- (a) What is part **X** called? [1]

Answer

- (b) Is the bulb lit when the circuit is as shown? [1]
Tick **one** box.

Yes ☐ No ☐

- (c) Explain your answer to part (b). [1]

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- 14** (a) Circle the material that is the best electrical conductor. [1]

wood copper plastic rubber

- (b) The copper wires in a lamp cable are covered in plastic. [1]
Why is plastic used?

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- 15** (a) Complete the sentence. [1]

Sounds are made when objects

- (b) A guitar string makes a low sound. [1]
Give **one** way to make the sound higher.

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- 16 (a) Marta sees lightning. A few seconds later she hears thunder. [1]
Why does she hear the thunder **after** she sees the lightning?

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- (b) A drum is hit harder. [1]
What happens to the sound?

Answer

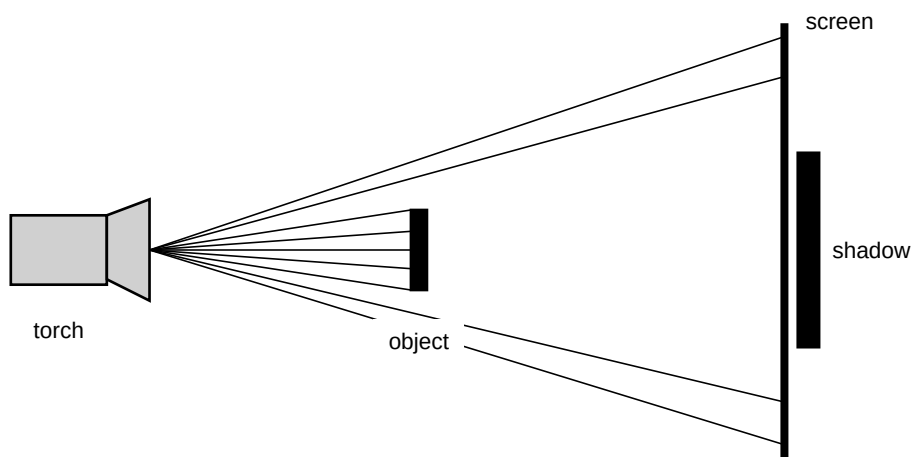
- (c) Give **one** way to make a noisy machine quieter for people nearby. [1]

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- 17 Jamal shines a torch at an object. The object makes a shadow on the screen.



- (a) Explain how the shadow is made. [1]

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- (b) What does this show about the way light travels? [1]

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- (c) Jamal moves the object closer to the torch. [1]
What happens to the size of the shadow?

Answer

- 18** (a) Jamal wants the darkest possible shadow. [1]
Circle the best material to use for the object.

clear glass tracing paper thick card

- (b) Name **one** light source. [1]

Answer

- 19** (a) How long does it take the Earth to spin once on its axis? [1]

Answer

- (b) Why does the Sun seem to move across the sky during the day? [1]

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- 20** (a) Explain why it is night in some parts of the Earth while it is day in other parts. [1]

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- (b) A girl measures her shadow at 8 a.m. and at 12 noon. [1]
At which time is her shadow shorter?

Answer