



Cambridge Primary Sample Test

For use with curriculum published in September 2020

Science Paper 1

Stage 4

30 minutes

Name

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.

INFORMATION

- The total mark for this paper is 30.
- The number of marks for each question or part question is shown in brackets [].

1 The skeleton has many functions.

Draw a line to match each **part of the skeleton** to each **function**.

part of the skeleton

leg bones

rib cage

jaw

skull

function

protects the heart

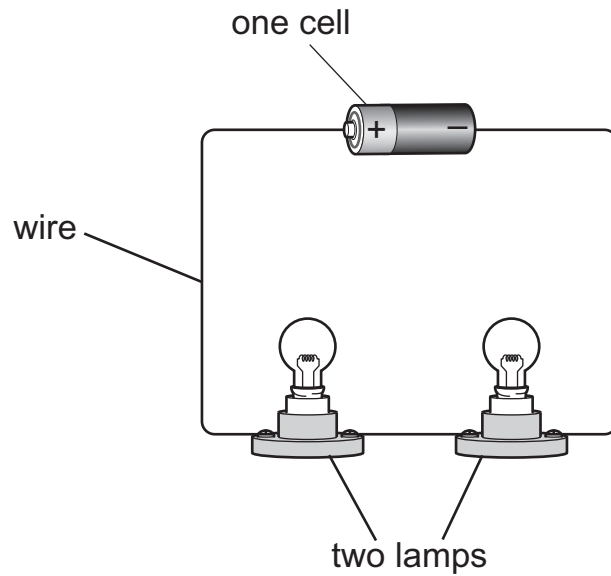
enables movement

gives shape to the head

supports the mouth

[2]

2 This electrical circuit has one cell and two lamps.



The lamps are dim.

(a) Describe how to make the lamps brighter.

Circle the correct answer.

add more cells

add more wire

add one more lamp

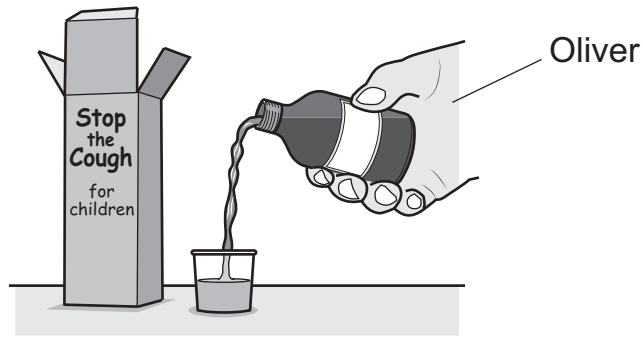
add two more lamps

[1]

(b) Which component is added to open and close an electrical circuit?

..... [1]

3 Medicines are a type of drug.



There is information about the medicine on the bottle.

Oliver must read this information before he uses the medicine.

Give **two** reasons why.

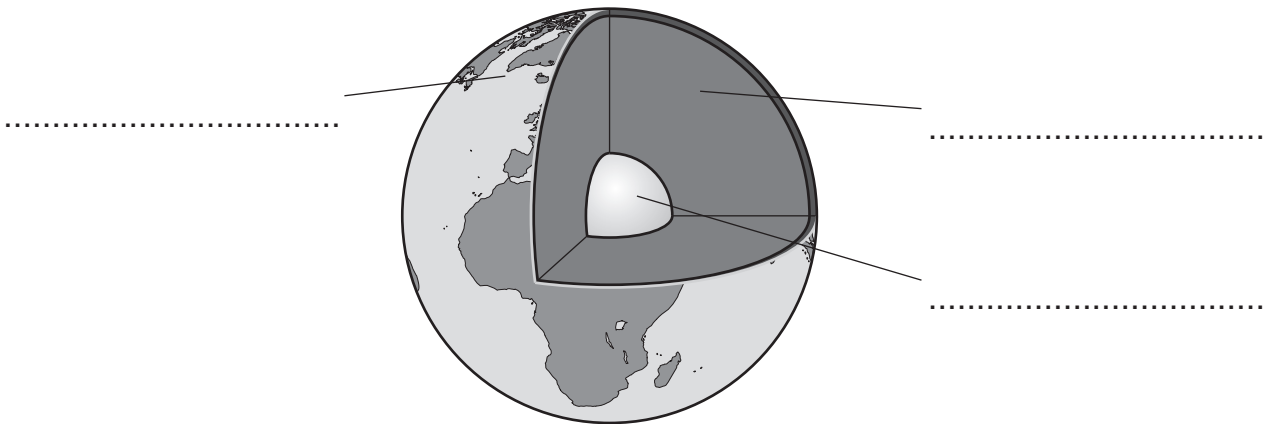
- 1
-
- 2
-

[2]

4 Label the model of the Earth.

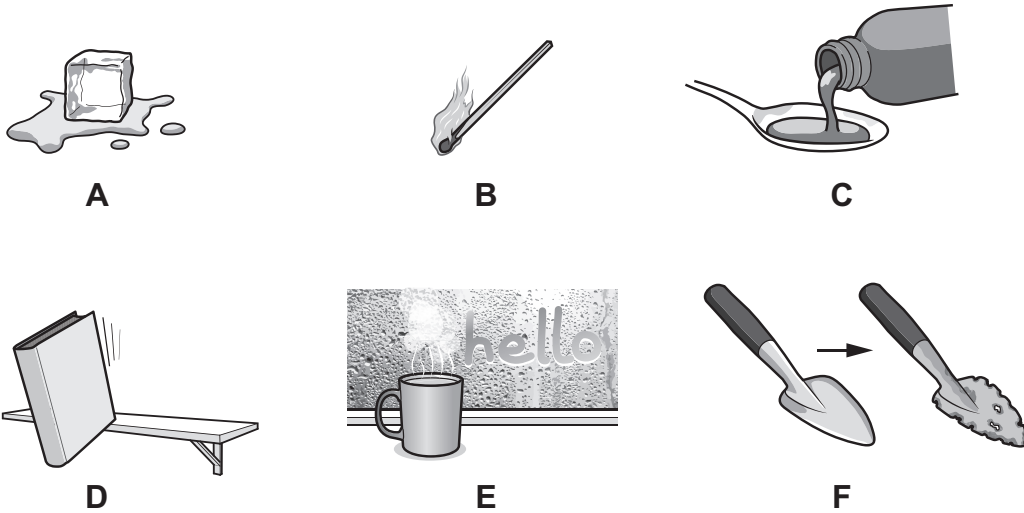
Choose from the list.

crust **core** **mantle**



[1]

5 There are chemical reactions and physical processes.



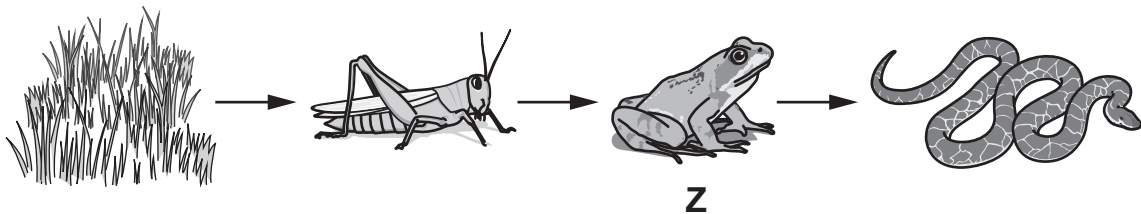
(a) Which **two** letters show chemical reactions?

..... and [1]

(b) Which **two** letters show physical processes?

..... and [1]

6 Food chains contain living organisms.



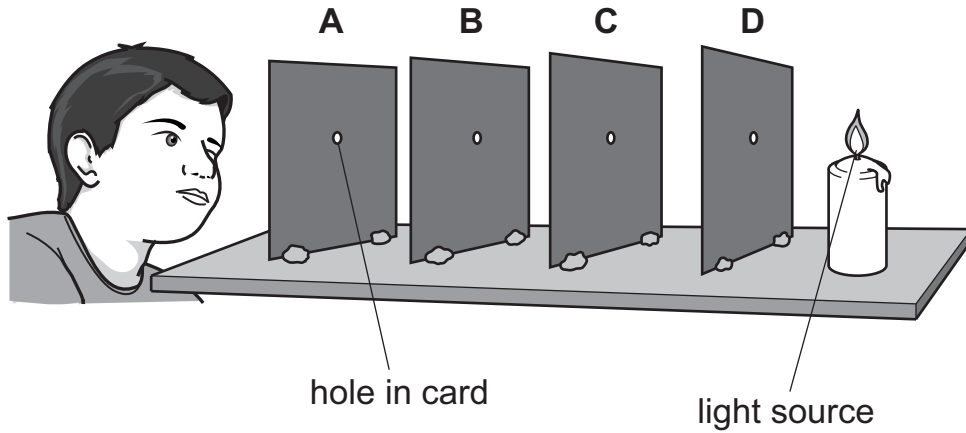
Use the key to identify the living organism labelled **Z**.

- 1 Is it a producer? yes **Poaceae**
 no go to question 2
- 2 Is it a herbivore? yes **Caelifera**
 no go to question 3
- 3 Is it a predator and a prey? yes **Anura**
 no **Serpentes**

Living organism **Z** is [1]

7 Mike investigates light.

He looks at a light source through the holes in **four** cards.



Mike moves the card **C** upwards by 2 cm.

(a) What happens when Mike looks at the light source through the holes again?

..... [1]

(b) Mike repeats this investigation with card **C**.

Why does Mike repeat the investigation?

..... [1]

8 Describe the difference between vertebrates and invertebrates.

Complete the sentences.

Vertebrates are animals

Invertebrates are animals

[1]

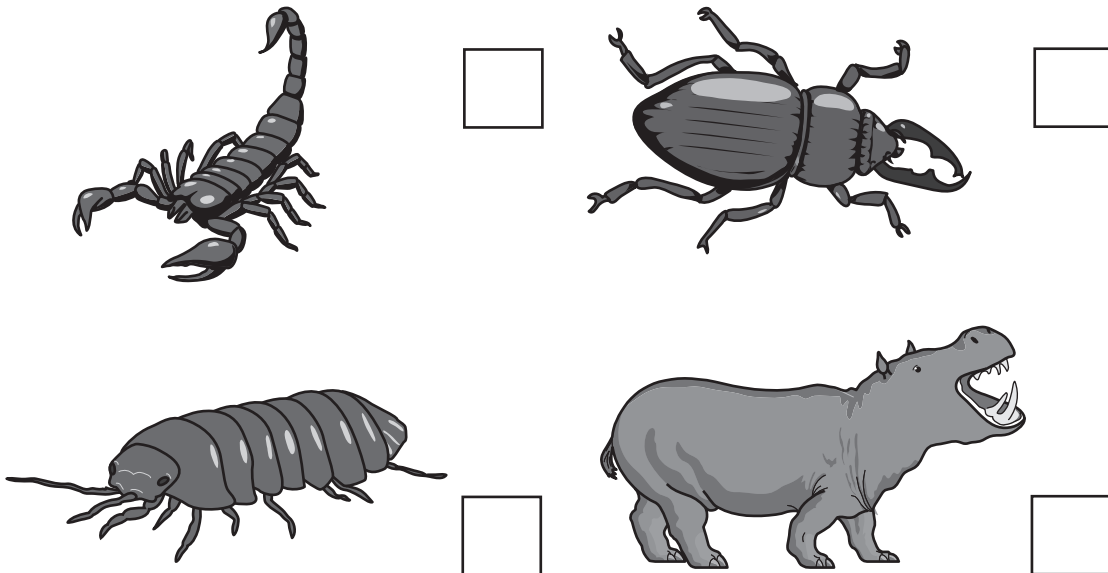
9 Draw a line to match each **word** to its correct **description**.

word	description
material	glass is used to make windows
particle	water exists as a solid, liquid and gas
substance	in a solid these are close together

[1]

10 Some animals have an exoskeleton.

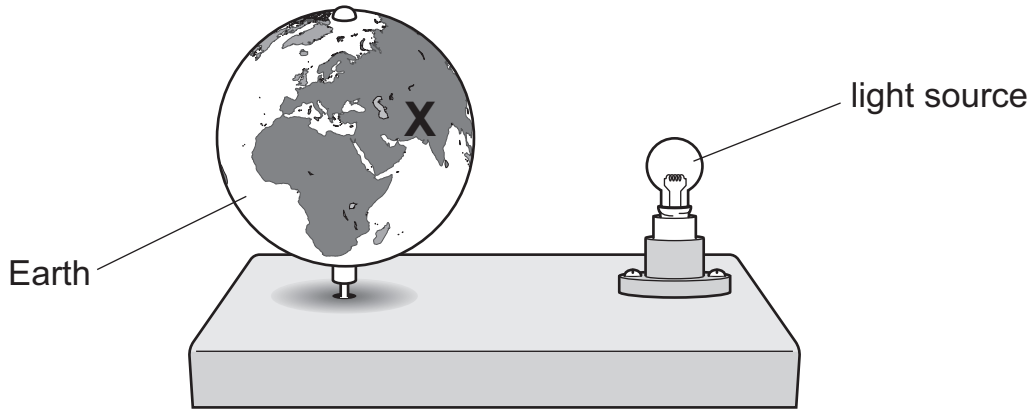
Put a tick (✓) next to **all** the animals with an exoskeleton.



Not drawn to scale.

[1]

11 Anastasia has a model.



(a) There is a light source in the model.

What part of our solar system does the light source represent?

..... [1]

(b) The model is **not** exactly the same as this part of our solar system.

Write down **two** ways it is different.

1

2

[2]

(c) Describe how the model is used to show night **and** day at position X.

.....

..... [1]

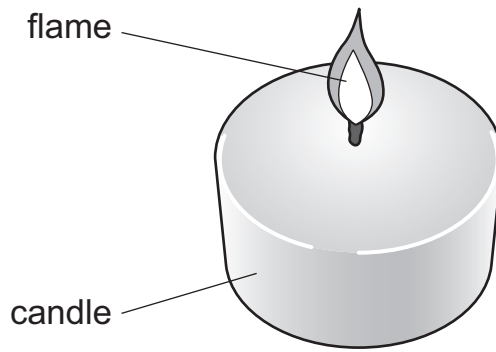
12 Pierre has a light source and a mirror.



Draw a ray of light to show how light is reflected so Pierre can see the light.

[1]

13 Jamila has a flame on her candle.



(a) Circle the correct sentence about the light energy from the flame.

Light energy is destroyed.

Energy is transferred to light energy.

Light energy is lost.

Light energy is made by the candle.

[1]

(b) Jamila says,

'I see, hear and feel.

I am able to detect light energy.'

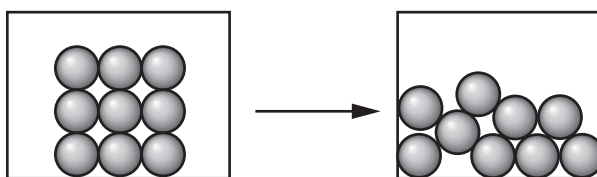
Write down two **other** types of energy Jamila detects.

1

2

[2]

14 Mia draws two particle models.



What does the arrow show?

Circle the correct answer.

change from a mixture to one substance

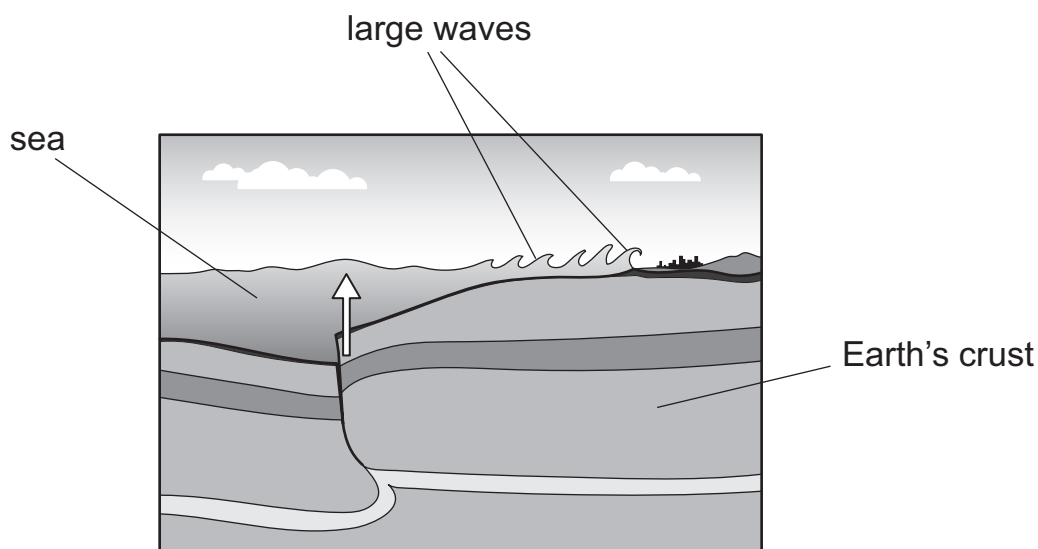
change from liquid to solid

change from one substance to a mixture

change from solid to liquid

[1]

15 Yuri draws a picture of the Earth's crust and the sea.



Describe what is happening to the Earth's crust and what this causes.

.....

.....

..... [2]

16 Carlos puts a substance into a beaker.

Carlos:

- measures the temperature of the substance
- heats the substance for 8 minutes
- measures the temperature every minute.

Here are his results.

time in minutes	temperature in °C
0	20
1	25
2	25
3	40
4	55
5	70
6	85
7	100
8	110

(a) Describe the pattern in the results.

.....
..... [1]

(b) The substance melts at 1 minute.

What is the temperature at 1 minute?

..... °C [1]

17 Some living things get energy from light.

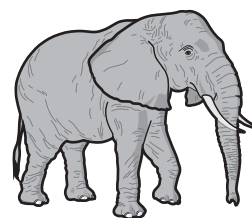
Some living things get energy from eating.



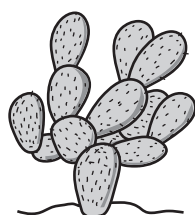
tree



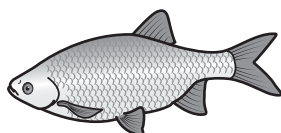
firefly



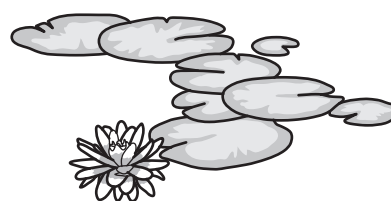
elephant



cactus



fish



waterlily

Write down the name of each living thing in the correct group.

get energy from light	get energy from eating

[2]