



Science

Stage 4

Paper 1

2024

Cambridge Primary Progression Test

Name

Class

Date

30 minutes

No additional materials are needed.

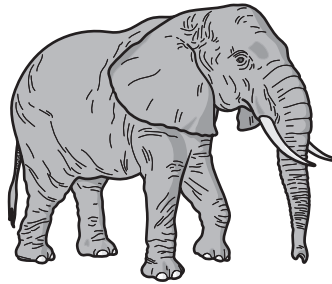
INSTRUCTIONS

- 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 Elephants live in hot countries.



(a) Complete the sentences to describe how the ears of elephants help them live in hot countries.

The ears of elephants

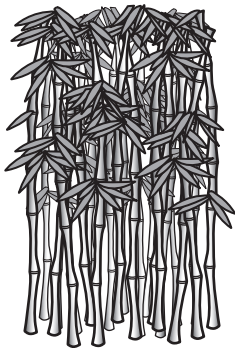
.....

This helps them live in hot countries because

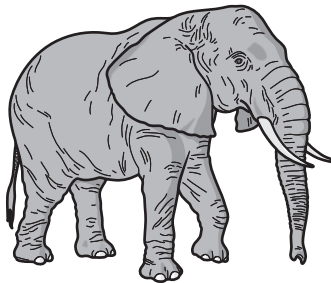
.....

[2]

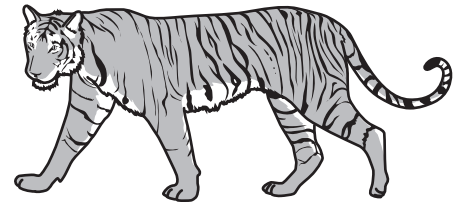
(b) Elephants are consumers in this food chain.



bamboo



elephant



tiger

What is a consumer?

..... [1]

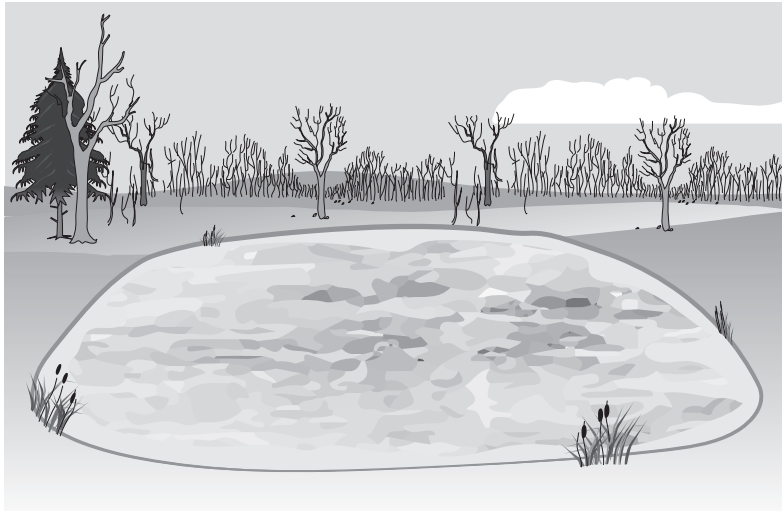
(c) The bamboo in the food chain needs energy to grow.

Write down where the bamboo gets its energy from.

..... [1]

2 Look at the picture of ice covering a lake.

76



(a) Complete the sentences to describe how the water in the lake becomes ice.

The water in the lake freezes and changes from a

to a

The ice will change back into a liquid when it

[2]

(b) When the water in the lake freezes it changes state.

Circle the process that describes this change.

physical

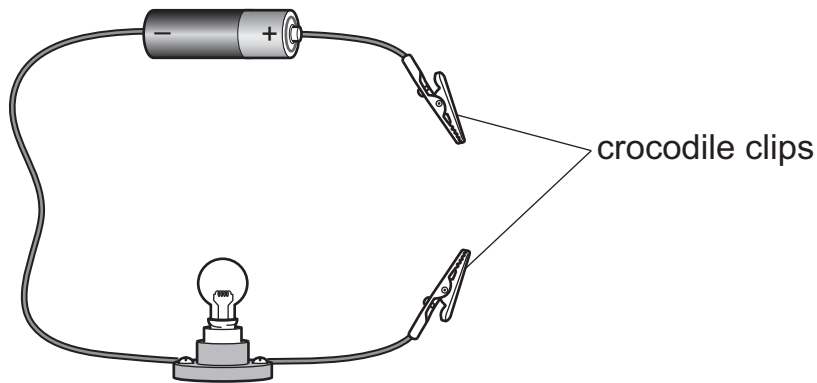
chemical

dissolving

irreversible

[1]

3 Aiko makes this electrical circuit.



(a) Aiko completes the circuit by attaching both the crocodile clips to different materials.

Complete the table to predict her results.

The first one has been done for you.

material	lamp lights (yes or no)
wood	no
paper
aluminium
steel
rubber
glass

[2]

(b) Aiko writes a conclusion from her results.

Complete her conclusion.

The lamp lights because some materials are

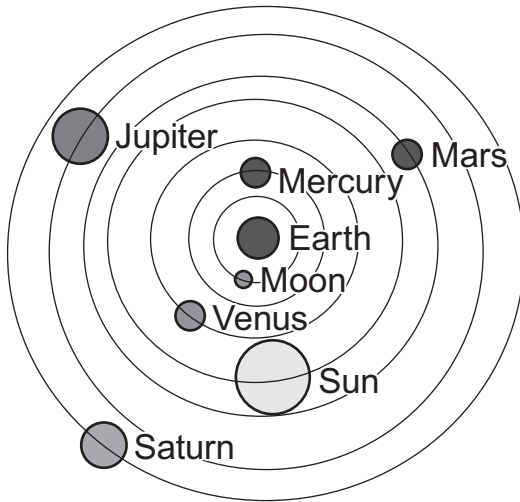
The lamp does **not** light because some materials are

[2]

4 Hassan is learning about the Solar System.



He finds this model on the internet.



Not drawn to scale

Hassan says this model is wrong.

Write down **one** reason why Hassan is correct.

.....

..... [1]

5 This question is about the particle model.



Tick (✓) to show if these sentences are **true** or **false**.

	true	false
Particles in a solid do not move.	<input type="checkbox"/>	<input type="checkbox"/>
Particles in a liquid move randomly.	<input type="checkbox"/>	<input type="checkbox"/>
Particles in a solid are held in a fixed arrangement.	<input type="checkbox"/>	<input type="checkbox"/>
Particles in a solid are closer together than particles in a liquid.	<input type="checkbox"/>	<input type="checkbox"/>

[2]

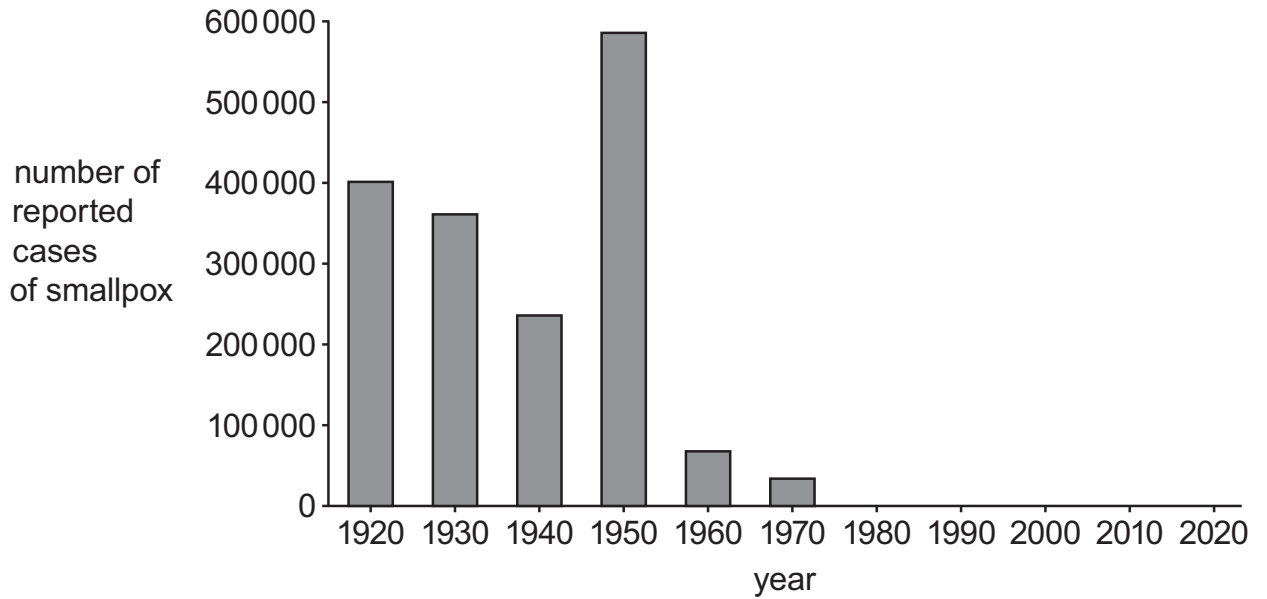
6 Smallpox is an infectious disease.



(a) Write down the meaning of the word infectious.

..... [1]

(b) The graph shows the number of reported cases of smallpox over the last 100 years.



Describe the pattern shown by the graph.

.....
.....
.....
..... [2]

(c) Edward Jenner made a type of medicine that stops people getting smallpox.

This type of medicine is now used to stop people getting other infectious diseases.

Write down the name of this type of medicine.

..... [1]

7 Look at the picture of a firework display.



Fireworks transfer different types of energy into the environment.

Write down **two** of these types of energy.

- 1
- 2

[2]

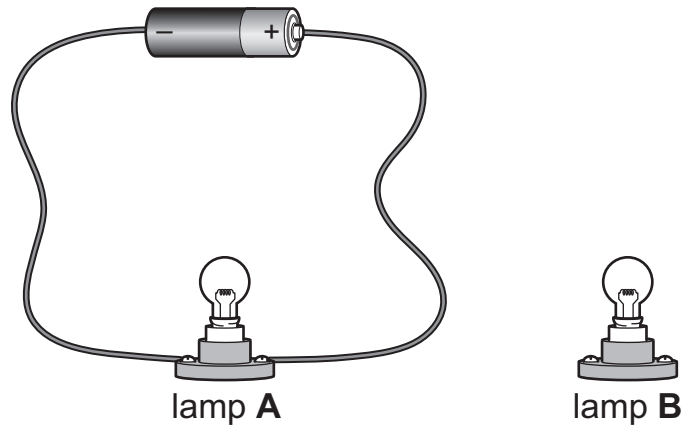
8 Look at the picture of a tree next to the water.



Write down the word that is used to describe the image of the tree in the water.

..... [1]

9 Carlos makes this electrical circuit.



Lamp **A** is bright.

Carlos adds lamp **B** to the electrical circuit.

(a) Predict what happens to lamp **A**.

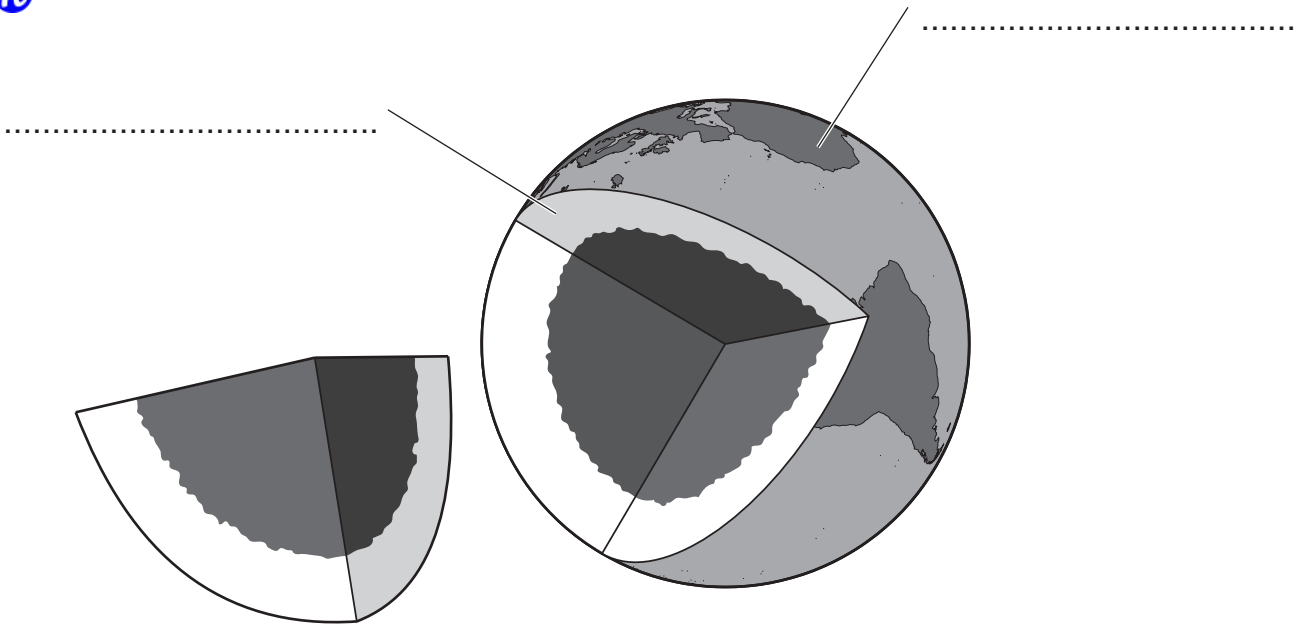
..... [1]

(b) Carlos wants to turn the lamps on and off.

Write down the name of the component he adds to the electrical circuit.

..... [1]

10 Mia makes a model of the structure of the Earth using a polystyrene ball.



(a) Complete the labels on the model of the Earth. [2]

(b) The centre of the model of the Earth has **not** been labelled.

Write down the name of the centre of the Earth.

..... [1]

(c) Describe **one** way this is a good model to show the structure of the Earth.

..... [1]

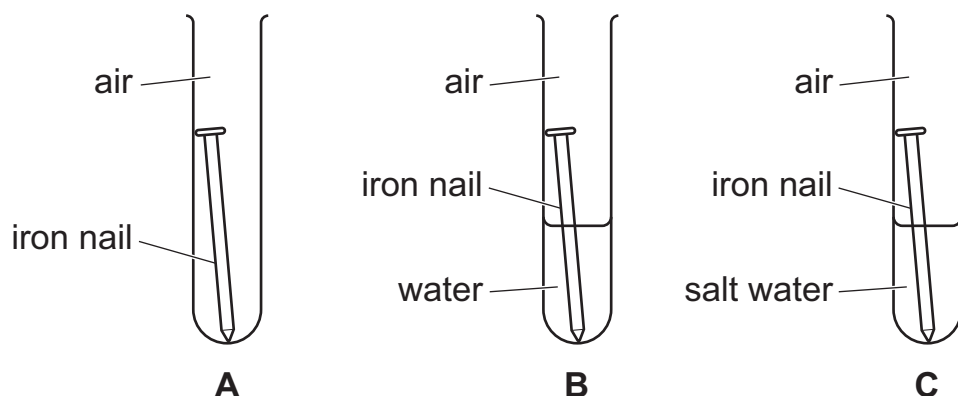
(d) Describe **one** way this is **not** a good model to show the structure of the Earth.

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

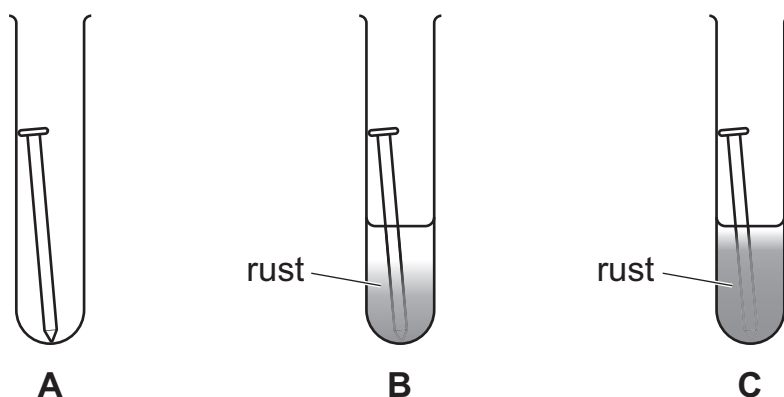
11 Lily is investigating chemical reactions.



The diagram shows her investigation.



She leaves the nails for several days and then observes any changes.



Lily concludes that a chemical reaction happens in tubes **B** and **C**.

(a) Describe how Lily's observations show that a chemical reaction happens.

.....
 [1]

(b) Write down **one other** conclusion Lily makes from her observations.

.....
 [1]