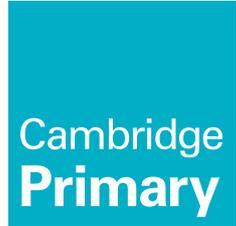


Cambridge Primary Progression Test

Question paper



35 minutes

Science Paper 1

Stage 4

Name

Additional materials: Ruler

READ THESE INSTRUCTIONS FIRST

Answer **all** questions in the spaces provided on the question paper.

You should show all your working on the question paper.

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 40.

For Teacher's Use	
Page	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
Total	

* 7 7 0 4 5 2 3 0 5 2 *

- 1 Ahmed sorts these materials into **solids**, **liquids** and **gases**.
All materials are at room temperature.

carbon dioxide

iron

orange juice

oxygen

water

wood

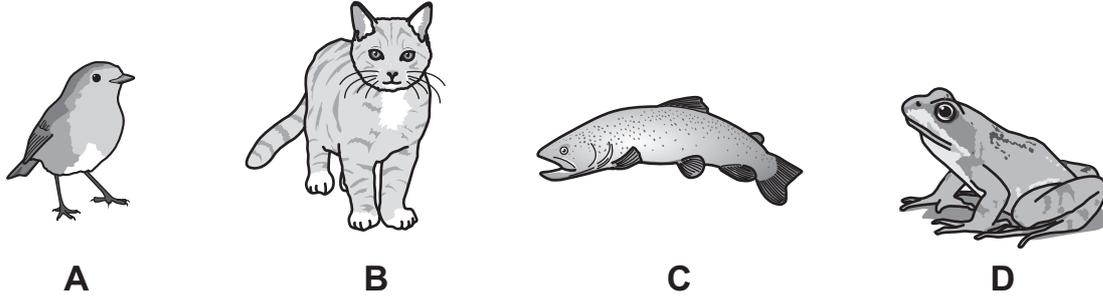
Complete the table.

Two materials have been done for you.

solid	liquid	gas
wood	carbon dioxide
.....

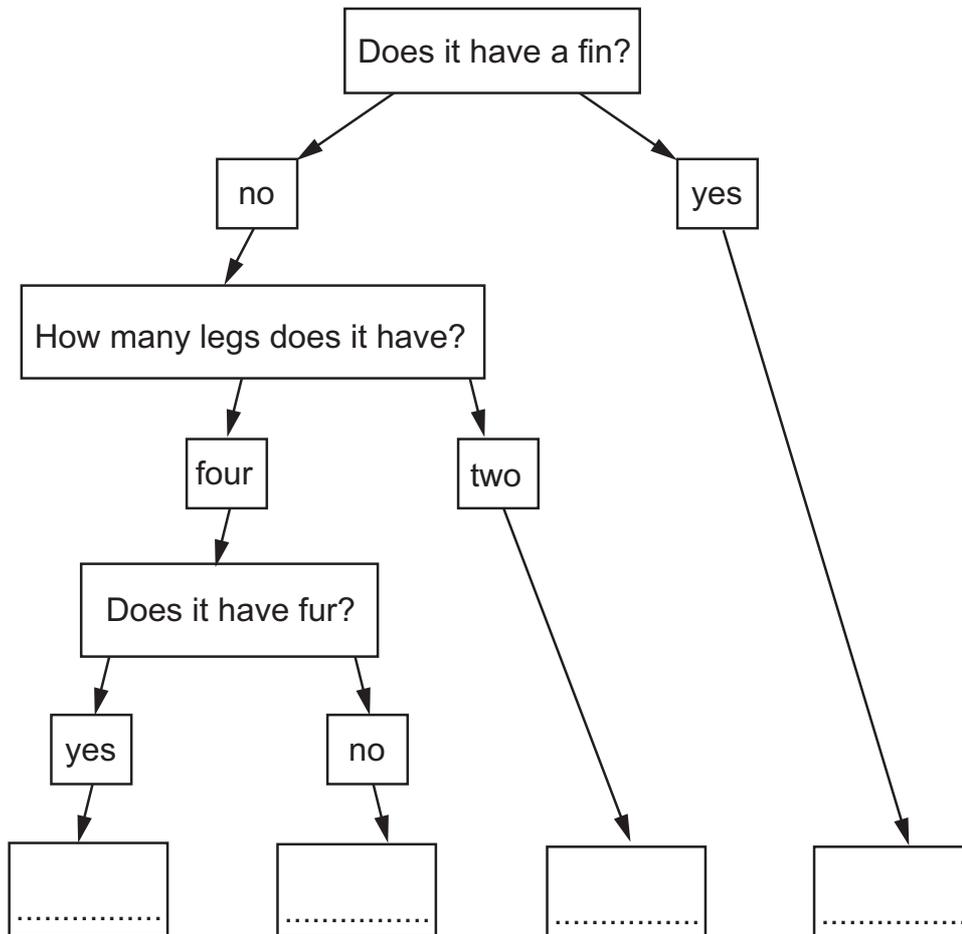
[4]

2 Jacob wants to identify **four** animals.



Use the key below to identify the four animals.

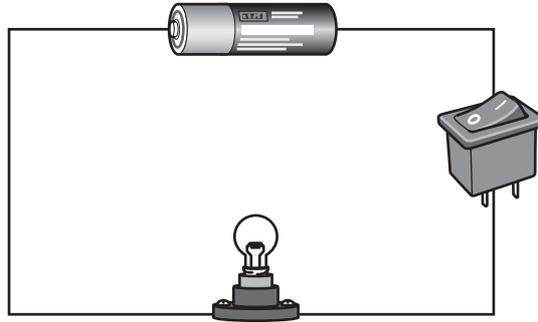
Write the correct letter in each box on the key.



[4]

3 Mobolaji investigates electricity.

He sets up a circuit with a battery, a lamp and a switch.



(a) Mobolaji closes the switch.

What happens to the lamp?

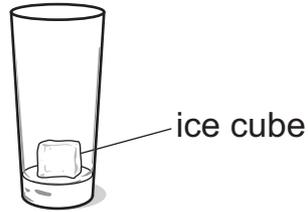
..... [1]

(b) Explain why this happens to the lamp.

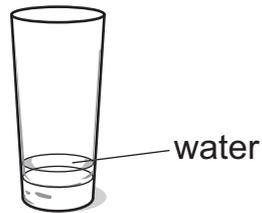
.....
..... [1]

4 Nisha places an ice cube in a glass.

She puts the glass into a warm room.



After 15 minutes there is only water in her glass.



(a) What happened to the ice cube?

.....
 [1]

(b) Nisha moves the glass and water into her garden.

The temperature is very hot.

After four hours the glass is empty.

The water has not been drunk by an animal.



What has the water changed into?

.....

Name the process that took place during the four hours.

..... [2]

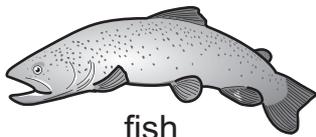
5 Humans have a skeleton inside their bodies.

Choose **two** animals that also have a skeleton **inside** their bodies.

Tick (✓) the **two** correct boxes.



bee



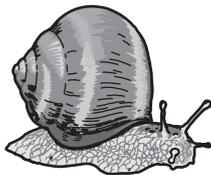
fish



jellyfish



penguin



snail

[2]

6 Cooking oil has a melting point of 10°C and a boiling point of 240°C .

A bottle of cooking oil has been left at 25°C .

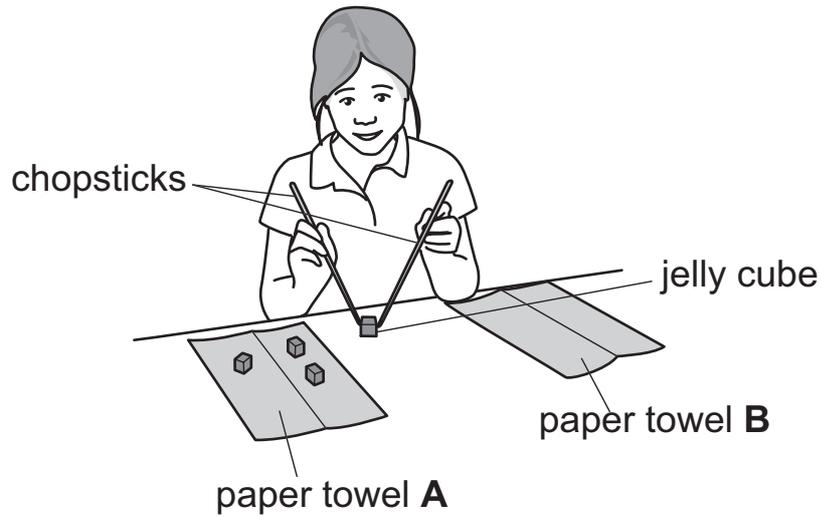
What will happen when the cooking oil is cooled to 5°C ?

..... [1]

What will happen when the cooking oil is heated to 250°C ?

..... [1]

7 Elena uses chopsticks to pick up four jelly cubes.

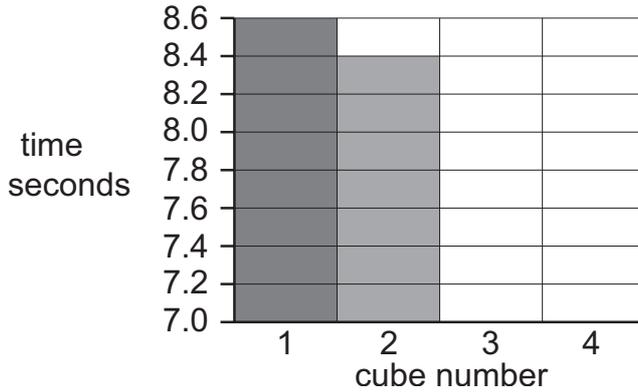


- Elena picks up one of the cubes.
- She moves the cube from paper towel **A** to paper towel **B**.
- She repeats this with the other cubes.

Look at the results.

cube number	time to move the cube in seconds
1	8.6
2	8.4
3	8.0
4	7.2

(a) Complete the bar chart.



[1]

(b) Complete the sentence.

Elena got better at moving the cubes because the time to move the cubes

..... [1]

(c) Elena puts oil on the cubes.

There is **less force** between the jelly cube and the chopsticks.

What is the name of this force?

Circle the correct answer.

friction **gravity** **moving** **pulling** **turning**

[1]

(d) The cubes are covered with oil.

Elena moves the cubes from paper towel **A** to paper towel **B**.

Predict what will happen and explain why.

I predict that

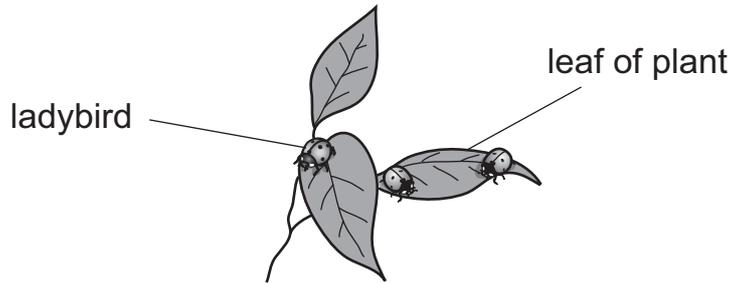
.....

because

..... [2]

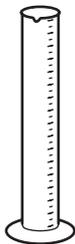
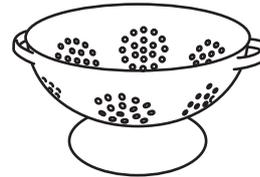
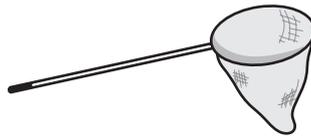
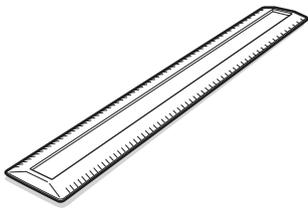
8 Paula and Hugo want to count how many ladybirds are on a plant.

For
Teacher's
Use



(a) What do they use to **catch** the ladybirds?

Circle the correct apparatus.



[1]

(b) Ladybirds have wings.

Where do they need to put the ladybirds while they count them?

..... [1]

(c) Paula says

“We must catch all the ladybirds.”

Hugo says

“We do not have enough time.”

They decide to collect the ladybirds from **one** leaf.

Describe how they could estimate the number of ladybirds on the whole plant.

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

9 Ali plays the trombone.

He wants to measure how loud it is.



(a) Circle the correct piece of equipment he could use.

force meter

ruler

scales

sound meter

thermometer

[1]

(b) Ali investigates the loudness of some instruments.

For
Teacher's
Use

Here are his results.

instrument	sound level
cymbals	130
french horn	100
piano	65
trombone	85

(i) Which unit does Ali measure sound in?

..... [1]

(ii) What instrument has the loudest sound?

..... [1]

(iii) Which instrument is quieter than the trombone?

..... [1]

10 Water can be a solid, a liquid or a gas.

Choose the **two** correct words from the list to complete the sentences.

boiling cooled freezing heated melting

Liquid water changes into ice when it is

Ice cubes change into water when they are [2]

11 Laura is learning about bones and muscles.

(a) Decide if the following statements are **true** or **false**.

Tick (✓) the correct column.

	true	false
To make a bone move a muscle has to lengthen.		
To make a bone move a muscle has to contract.		
Muscles often work in pairs.		

[2]

(b) One function of the skeleton is movement.

Name **two** other functions of the skeleton.

1.

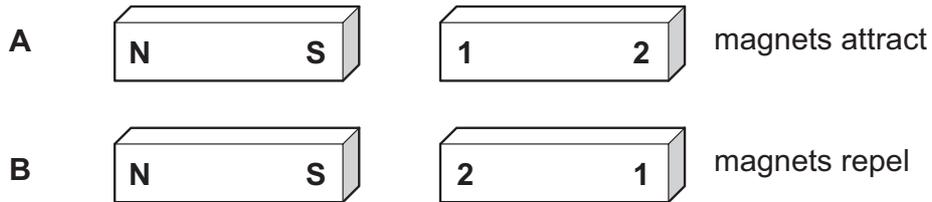
2. [2]

12 Marcus is investigating magnetism.

He has two magnets.

One magnet has lost its markings for North (**N**) and South (**S**) poles.

Marcus brings the two magnets next to each other as shown in the diagrams **A** and **B**.



(a) Marcus predicted that **1** is the south pole of the unmarked magnet.

Is he correct?

.....

Explain your answer.

.....

..... [2]

(b) Marcus uses his magnet to sort some material for recycling.

He has some objects made of iron and some made of aluminium.

Explain how Marcus can separate these objects using his magnet.

.....

..... [2]

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