



# Cambridge Primary Progression Test

## Science paper 2

### Stage 4



35 minutes

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	
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7	
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9	
10	
11	
12	
13	
14	
15	
16	
Total	

**1** Some objects are magnetic.

**(a)** Complete the sentence.

Magnetic objects are ..... to a magnet. [1]

**(b)** Put the objects into the table.

One has been done for you.

**plastic toy**

**glass window**

**paper cup**

**steel pin**

**aluminium foil**

<b>magnetic</b>	<b>non-magnetic</b>
	plastic toy

[2]

- 2** Angelique heats some ice cubes in a beaker.

Complete the sentences.

**(a)** When the ice cubes are heated they ..... and make liquid water. [1]

**(b)** When liquid water is heated in a beaker the temperature of the water ..... [1]

**(c)** Angelique stops heating the water after it has boiled.  
When steam is ..... it makes liquid water. [1]

- 3 Class 4 are thinking about how they grow.

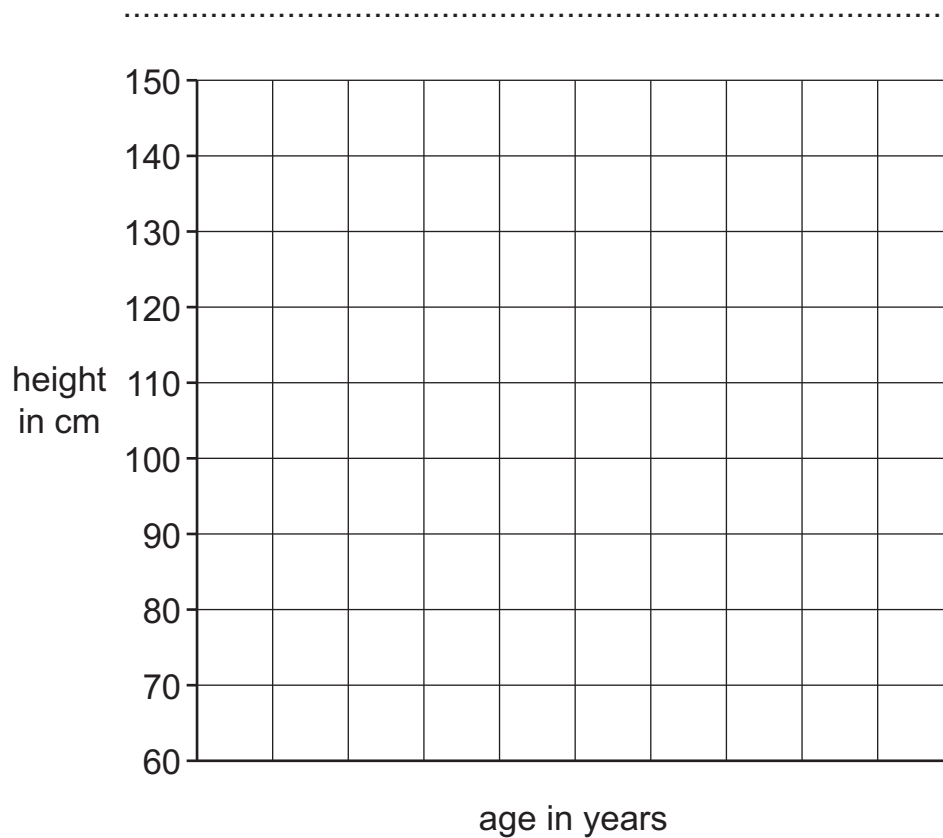
Here are Rajiv's height measurements.

age in years	height in cm
0	70
2	85
4	100
6	115
8	130

- (a) Use these results to draw a bar chart of Rajiv's height.

Give the bar chart a title.

Label the bars.



[3]

(b) Estimate Rajiv's height when he is 10 years old.

..... cm

[1]

(c) Your skeleton grows as you grow.

Write down two **other** helpful things your skeleton does.

1 .....

2 ..... [2]

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4 Humans can change the environment.

(a) Tick (✓) one **good** thing humans do to help the environment.

cut down trees

☐

drive cars

☐

drop litter

☐

recycle waste

☐

use more energy

☐

[1]

(b) River pollution is **bad** for the environment.



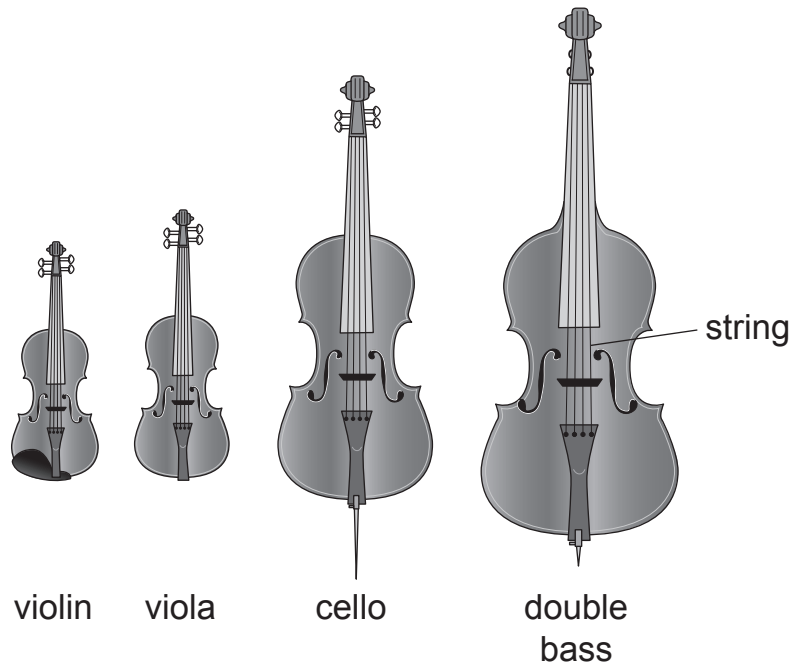
Dirty water is put into the river water.

Describe two things this dirty water does to the living things in the river water.

1 .....

2 ..... [2]

- 5 There are four musical instruments in the violin family.



The strings of these instruments vibrate to produce sound.

- (a) Which of these musical instruments makes the **highest** pitch sound?

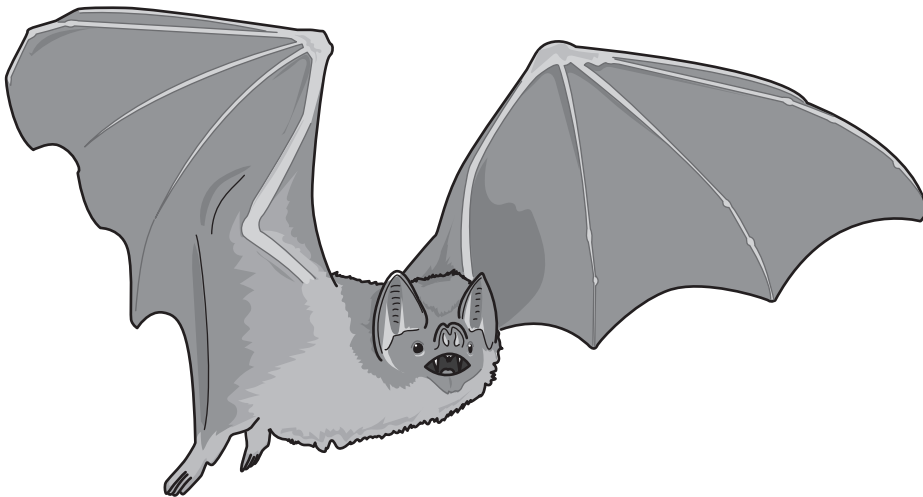
..... [1]

- (b) Explain your answer.

.....

..... [1]

- 6 Oliver looks at a picture of a bat.



This bat hunts for its food when it is dark.

Describe **three** features that help this bat adapt to its environment.

1 .....

.....

2 .....

.....

3 .....

..... [3]



7 Look at the table of information about materials.

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(a) Complete the table.

material	is the material a solid, liquid or gas at room temperature?
air	.....
gasoline (petrol)	.....
mercury	liquid
sugar	.....
water	.....
wood	.....

[2]

(b) Complete this sentence.

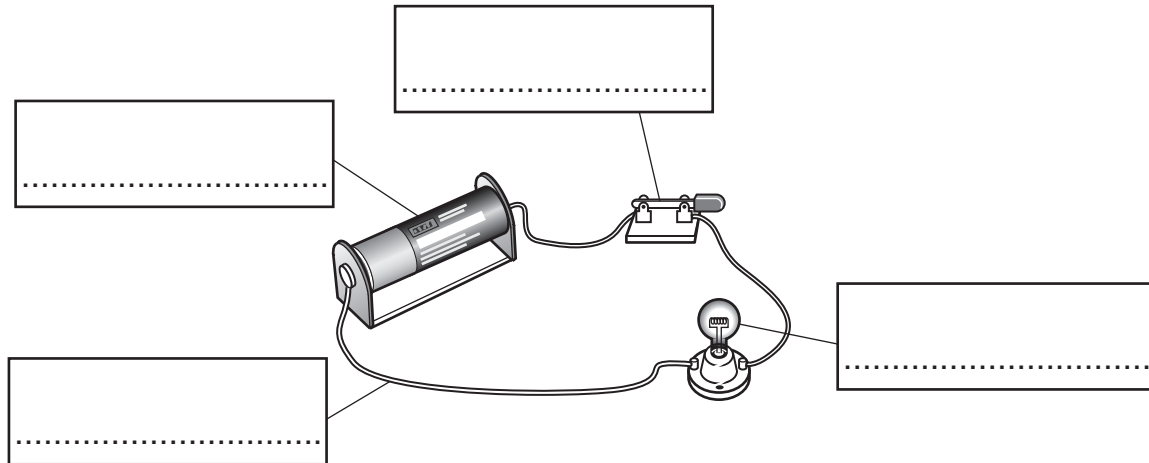
When a liquid is cooled it changes into a ..... [1]

8 Blessy makes a complete electrical circuit.

(a) Label the circuit.

Choose from the following words.

**buzzer**      **cell**      **lamp**      **magnet**      **motor**      **switch**      **wire**



[2]

(b) Blessy connects the electrical circuit for 10 days.

After 10 days the lamp does not work.

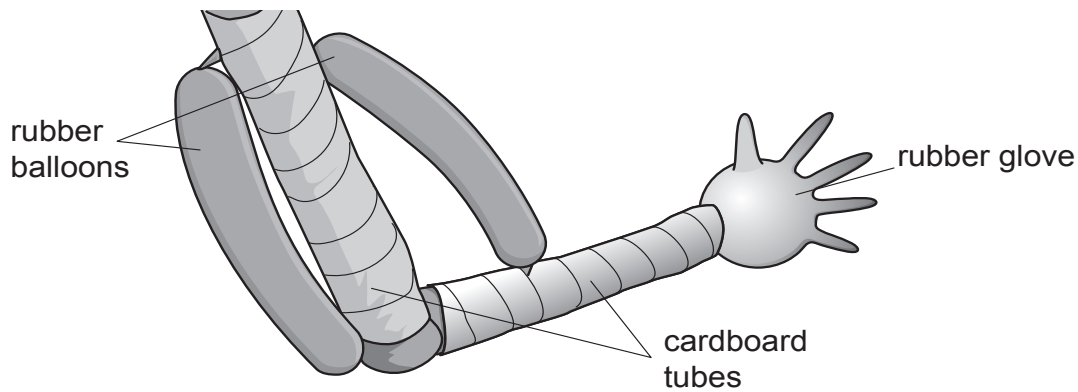
Explain why the lamp does not work.

.....

.....

..... [2]

9 Safia makes a model arm.



(a) Complete the sentences about the model arm.

Choose from the following words.

**blood vessels**

**bones**

**ligaments**

**muscles**

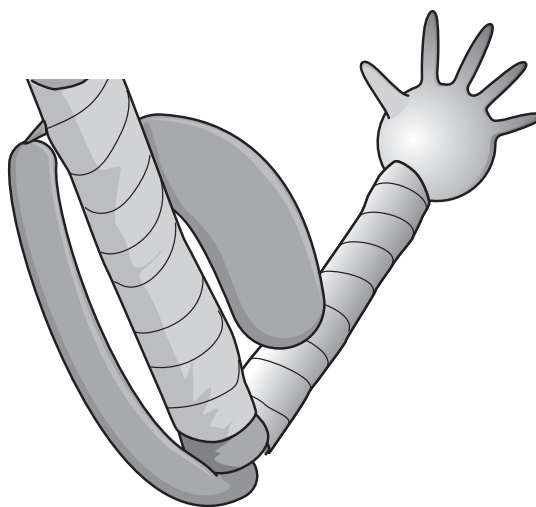
**senses**

The rubber glove is the hand.

The cardboard tubes are the .....

The rubber balloons are the ..... [2]

(b) Safia makes the model arm move.

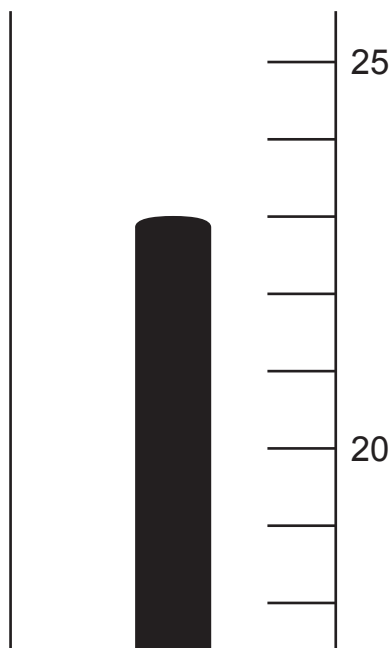


The hand moves up.

Draw the letter **X** on the model arm to show which part **contracts** (shortens). [1]

**10** Mercury is used in some thermometers.*For  
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Look at the diagram of part of a mercury thermometer at room temperature.



**(a)** What is the room temperature?

Give the correct unit.

.....

[2]

**(b)** What happens to the volume of mercury when its temperature is increased?

..... [1]

**(c)** Mercury metal flows easily at room temperature.

Explain why.

..... [1]

(d) A sample of mercury is cooled down to a very low temperature.

The mercury no longer flows.

Explain why.

.....

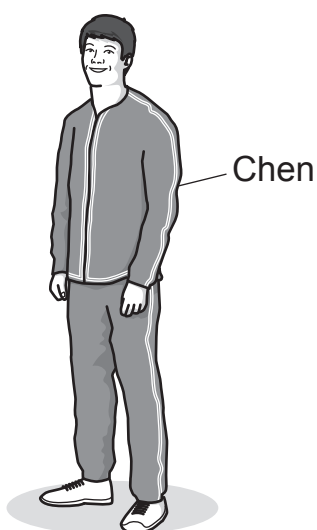
.....

..... [2]

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11 Chen is able to stand up, walk and run.

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(a) His muscles help him to stand up.

What else is inside his body to help him stand up?

..... [1]

(b) Muscles help him move.

Which statement is true about muscles?

Circle the correct answer.

**muscles are found in plants**

**muscles attach to skin**

**muscles do NOT grow**

**muscles do NOT move**

**muscles work in pairs**

[1]

**12** Lily is measuring the noise from the traffic outside her house.

She measures the noise at different times of the day.

Here are her results.

time of day	decibel reading
08:00	66
10:00	70
12:00	55
14:00	52
16:00	62

**(a)** At what time was the traffic noise the **loudest**?

.....

At what time was the traffic noise the **quietest**?

.....

[1]

**(b)** The traffic makes it very noisy inside Lily's house.

Tick (✓) the best **two** ways to reduce the noise.

fit curtains to the windows

☐

keep the windows closed

☐

keep the windows open

☐

use thinner glass in the windows

☐

[1]

