

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.

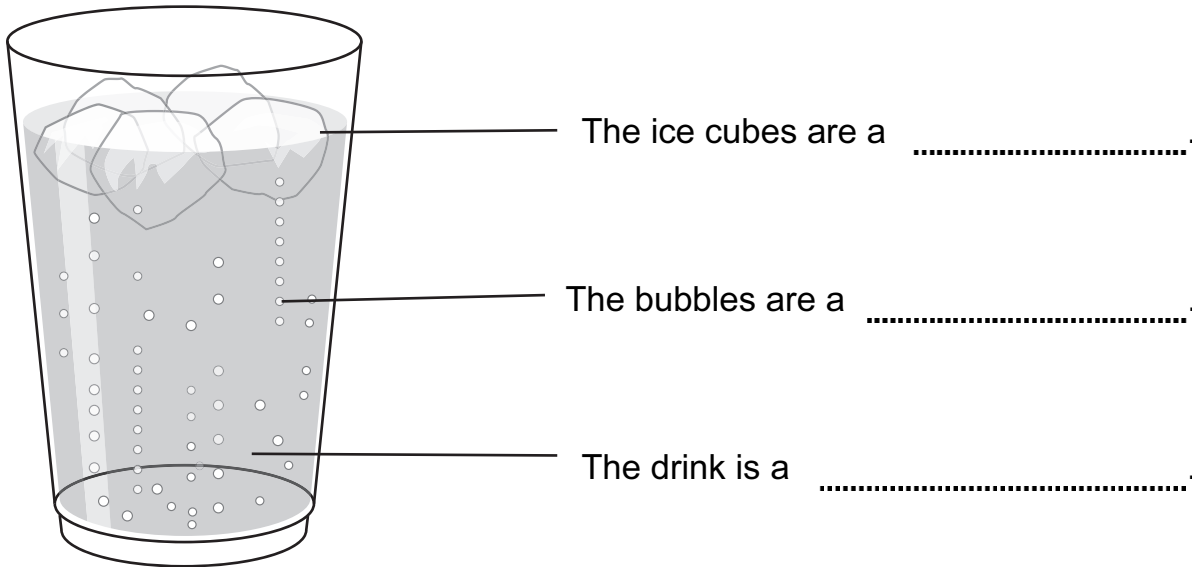
The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 40.

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

1 Tony has a fizzy drink with ice in it.

(a) Add the words **solid**, **liquid** or **gas** to these statements.



[2]

(b) What will happen to the ice cubes if Tony leaves his drink in a warm room?

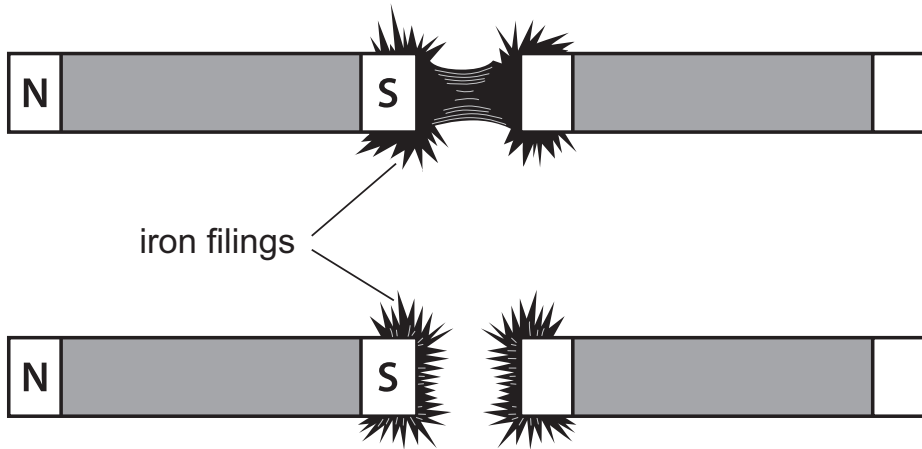
..... [1]

(c) What will happen to the drink if Tony leaves it in a freezer?

The drink will turn into a [1]

2 Jess investigates some magnets and iron filings.

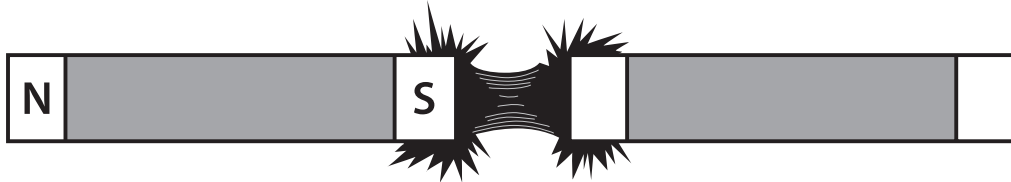
This is what happens.



(a) Write N or S at the ends of the magnets to show the poles.
Two of the magnets have been done for you.

[2]

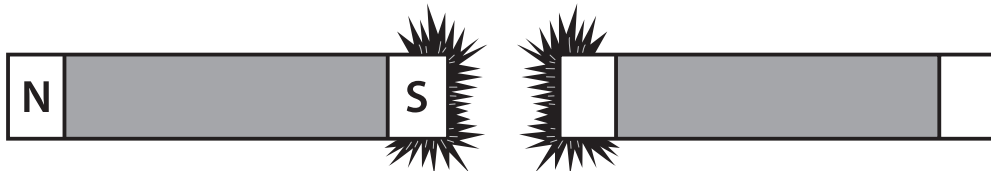
(b) Finish the sentence about these magnets.



The iron filings show that these magnets

[1]

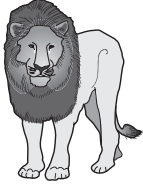
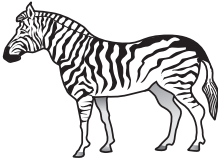
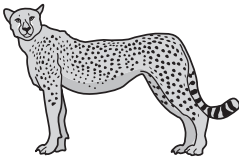

(c) Finish the sentence about these magnets.



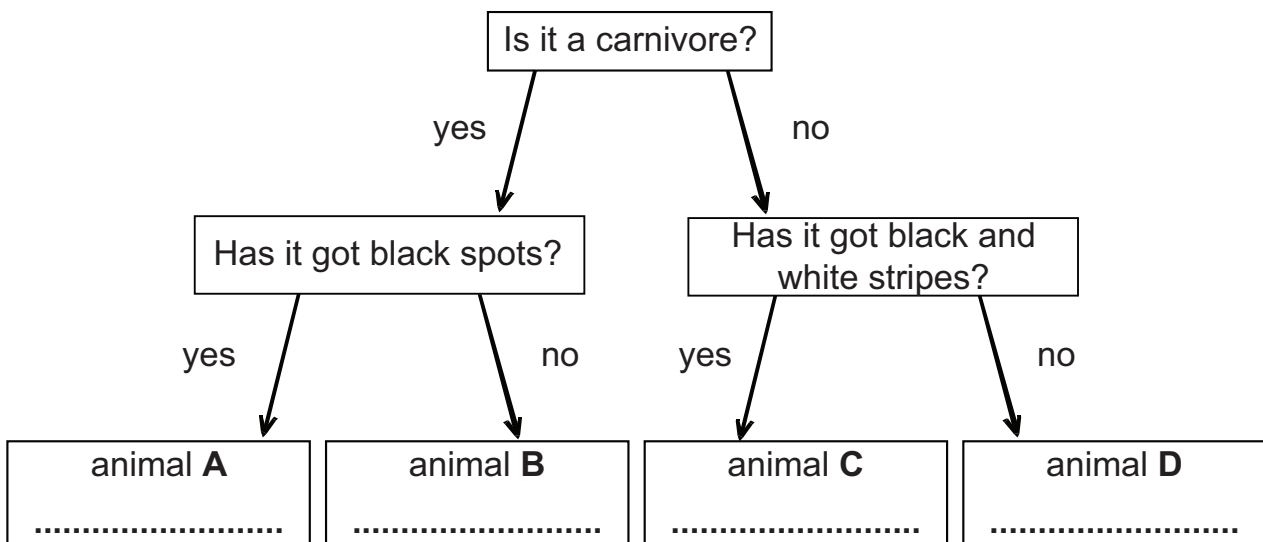
The iron filings show that these magnets

[1]

3 Janek has found some information about animals that live in Africa.

animal	what it eats	colour
 lion	wildebeest zebra impala gazelle	brown
 zebra	vegetation	black and white stripes
 cheetah	wildebeest zebra impala gazelle	brown with round black spots
 gazelle	vegetation	brown

Write the names of animals **A**, **B**, **C** and **D** in the boxes.




[3]

4 Magnets attract some metals and not others.

Tick (✓) the metals that are attracted to a magnet.

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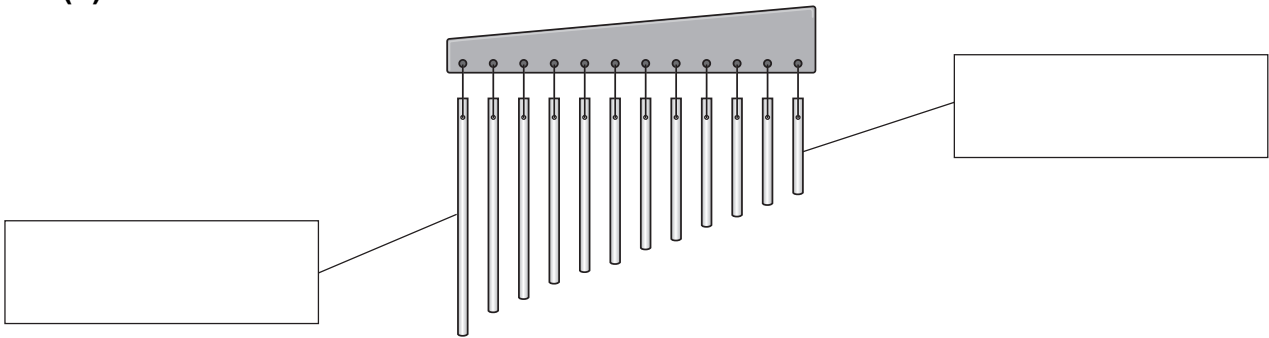
metal	attracted to a magnet 
copper	
steel	
iron	
aluminium	
nickel	
brass	

[2]

5 Musical instruments have different pitches.

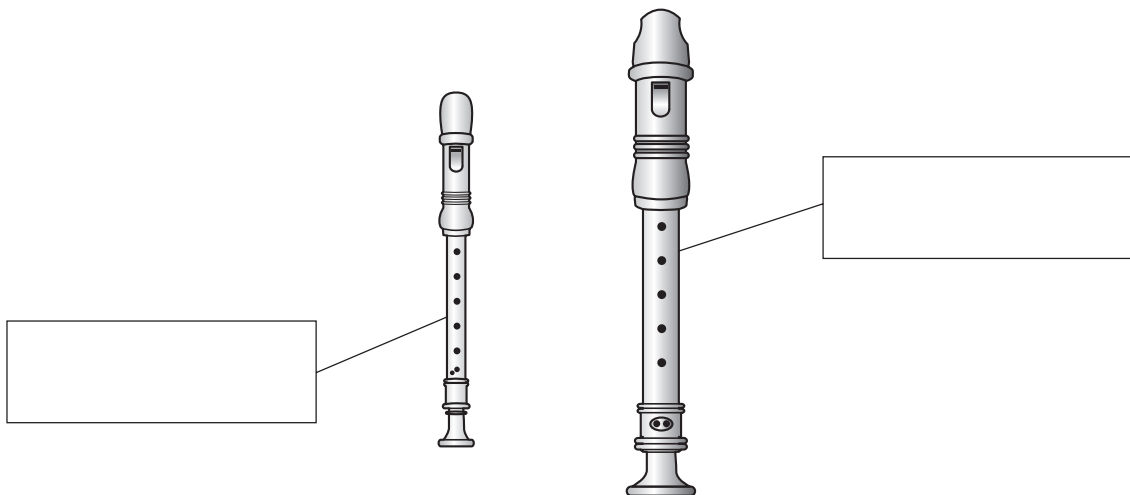
Write **low** or **high** in the boxes to show the pitch.

(a) chimes



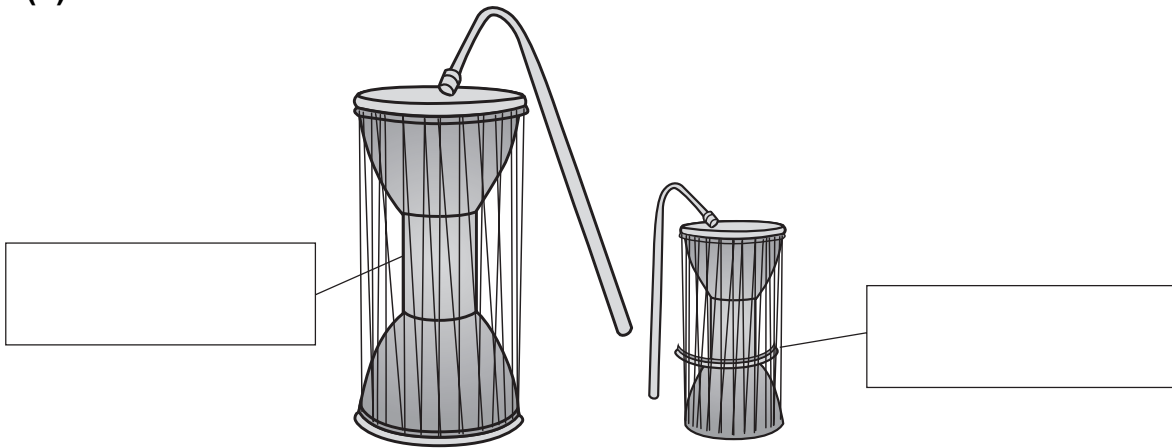
[1]

(b) recorder



[1]

(c) drums



[1]

(d) Gita hits the chimes gently.
She blows the recorder gently.
She bangs the drum strongly.

Which instrument sounds the **loudest**?

Circle the correct answer.

chimes

drums

recorder





[1]

6 Owl pellets are the undigested parts of an owl's diet.

The pellets are regurgitated.

Jan and Ian investigate an owl pellet.

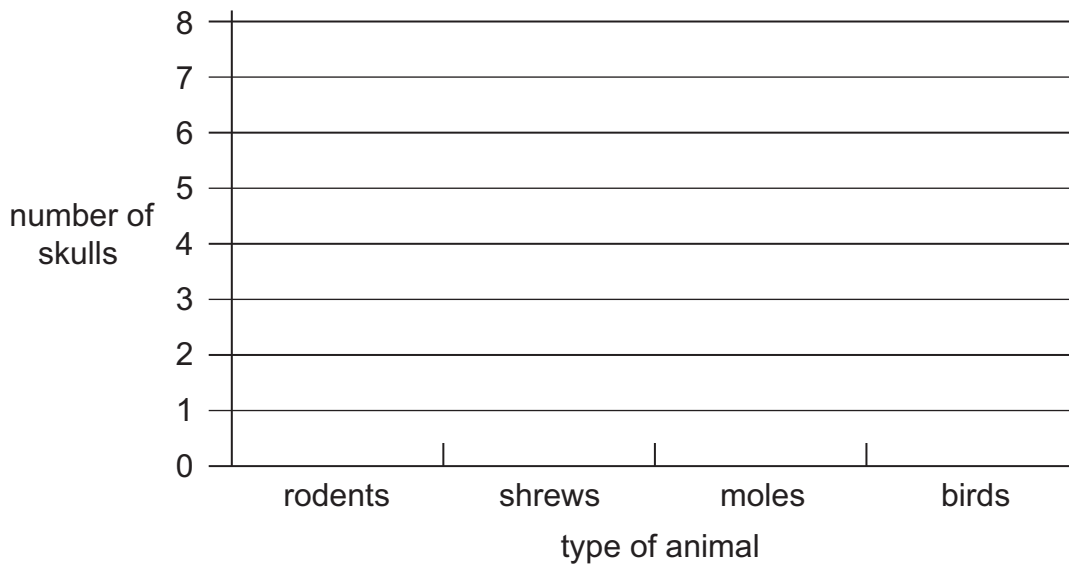
(a) In the owl pellet Jan and Ian find lots of bones including some skulls.

type of animal	rodents	shrews	moles	birds
skull				
number of skulls	8	2	1	3

What part of an animal do its bones and skull come from?

..... [1]

(b) Draw a bar chart to show Jan and Ian's results.



[2]

(c) Which animal did this owl eat **most**?

..... [1]

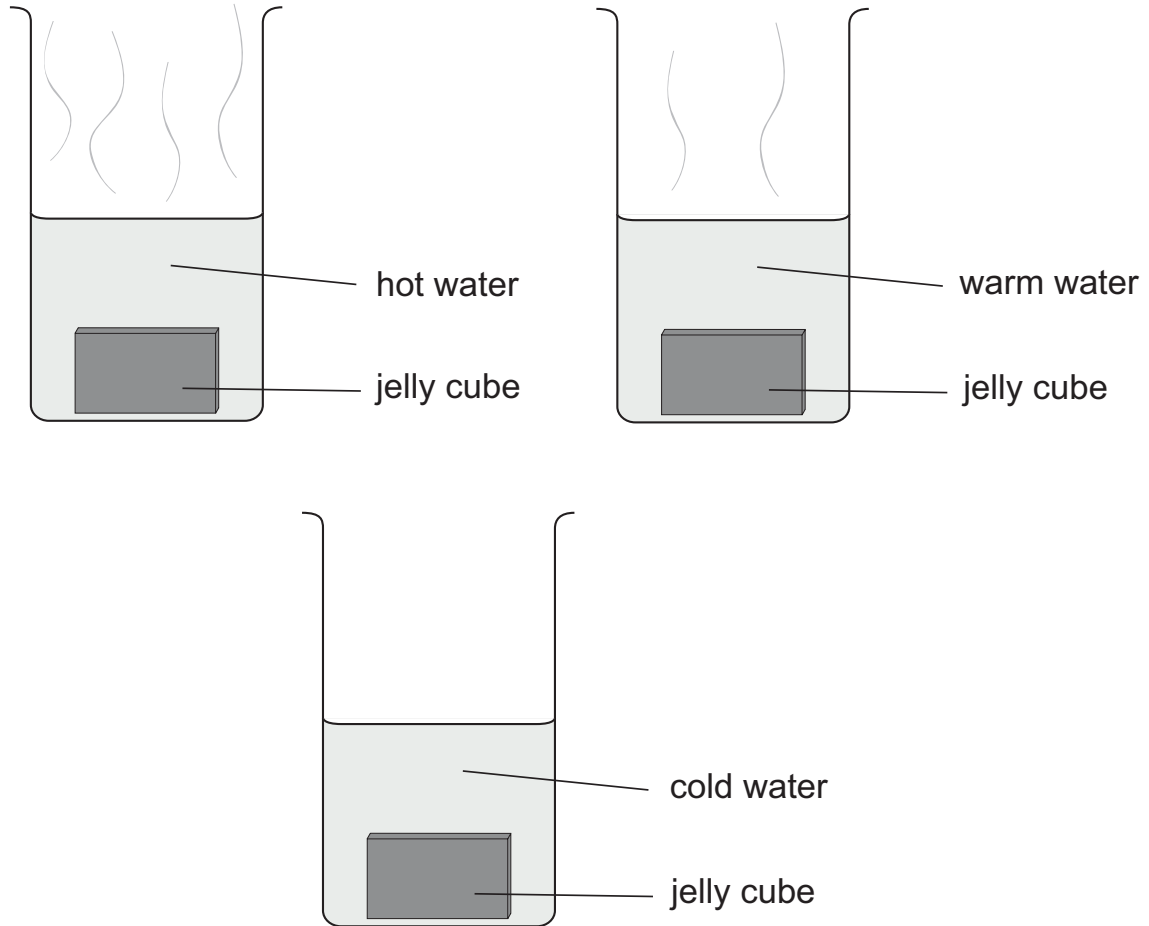
(d) Which animal did the owl find **hardest** to find?

..... [1]

7 Peter and Lisa investigate jelly cubes.

They put jelly cubes into three different beakers of water.

The water is at different temperatures.



(a) Complete the sentence.

The jelly cube which dissolves fastest is in water. [1]

(b) The jelly dissolves to make a solution.

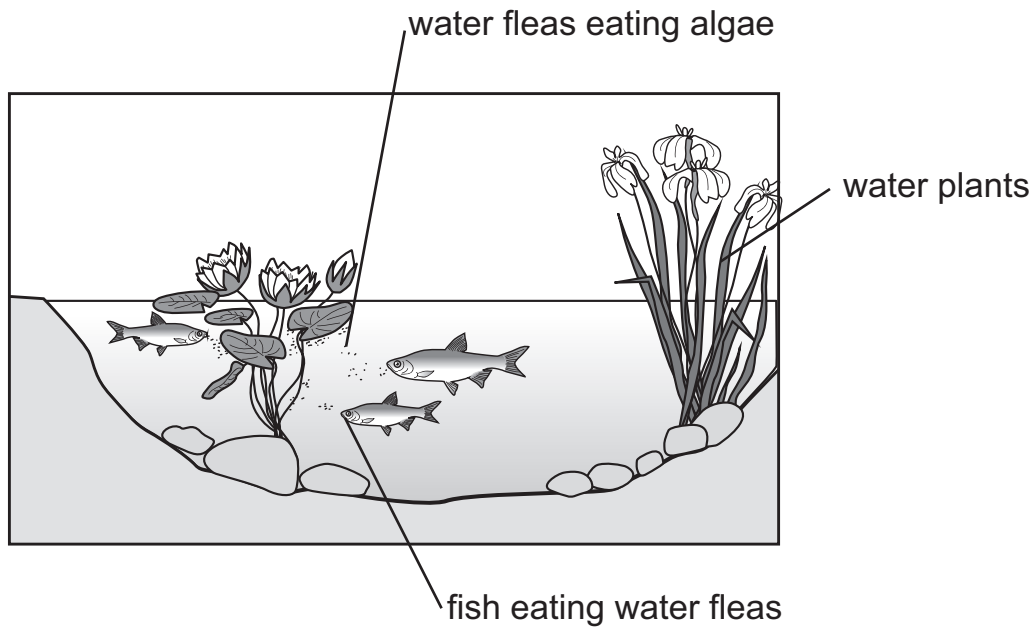
Peter and Lisa put the beaker in a very cold place.

What happens to the jelly solution?

..... [1]

8 Jim investigates a river habitat.

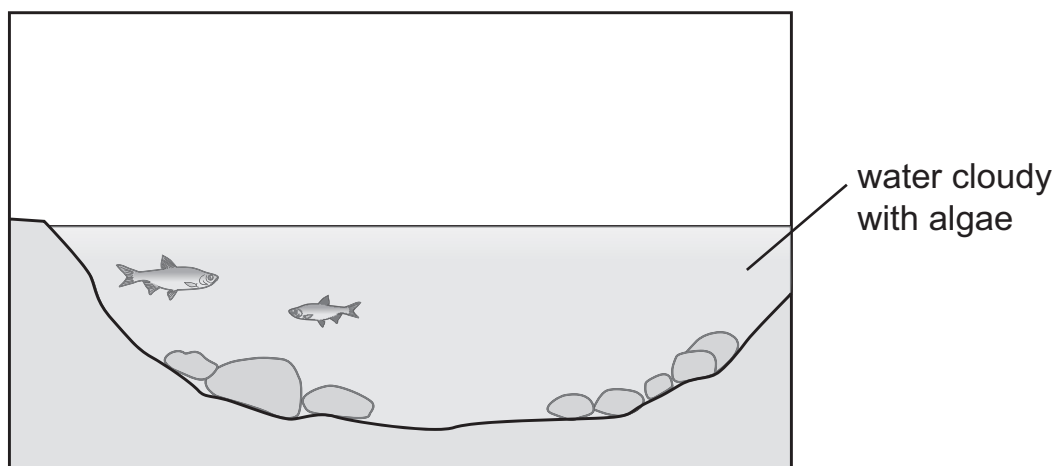
In the river he finds clear water and a number of plants and animals.



After two months Jim goes back to the same river.

The river is now polluted.

This makes more algae grow.



- (a) Tick (✓) the table to show if there are more or less living things in the polluted river.

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One has been done for you.

living things	more	less
algae	✓	
water plants		
water fleas		
fish		

[2]

- (b) What can be done to change the polluted river back to how it was?

Circle **one** answer.

control the pollution

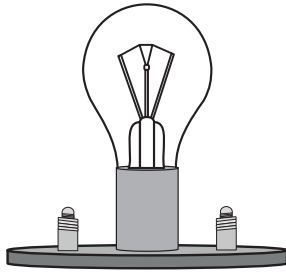
kill all the fish

put more algae in the river

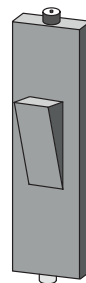
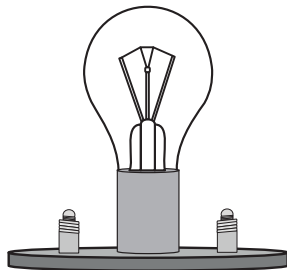
[1]

9 Su makes electric circuits.

(a) Draw wires to join the lamp and cell to make a complete circuit.



(b) Draw wires to join the lamp, cell and switch to make a complete circuit. [1]



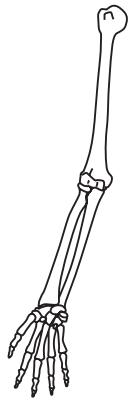
switch

[2]

10 Here are some bones.



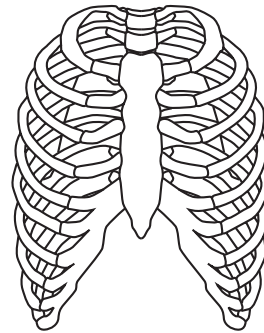
A



B



C



D

(a) Which **two** of these sets of bones protect vital organs of the body?

Choose from **A**, **B**, **C** and **D**.

..... and [2]

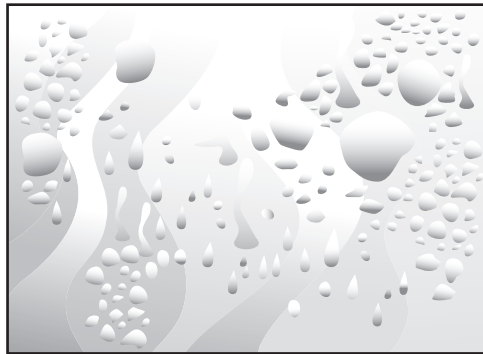
(b) What attaches to these bones to allow movement?

..... [1]

11 Max boils water in a pan in his kitchen.



Here is a picture of one of the windows in his kitchen.



Complete the sentences about the pictures.

(a) When the water boils, some of it turns into

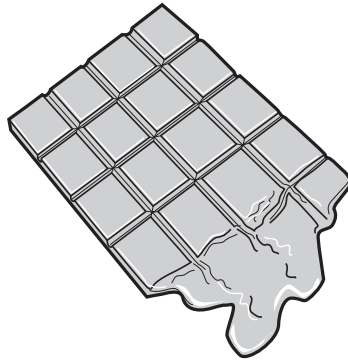
[1]

(b) When it reaches the cold window, it turns back into

[1]

12 Akira has some chocolate.

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Choose words to complete these sentences.

boils

condenses

evaporates

freezes

gas

liquid

melts

solid

The cold chocolate is a

Akira leaves the chocolate in the sun.

The chocolate

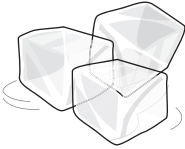
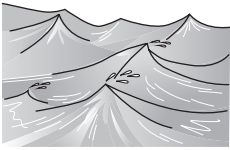

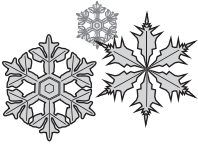
It has turned into a

[3]

13 The three states of matter are **solid**, **liquid** or **gas**.

Use these words in the table to say which is in the picture.

One has been done for you.

	is it a solid, liquid or gas?
 ice	solid
 sea	
 steam	
 snow	

[2]

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