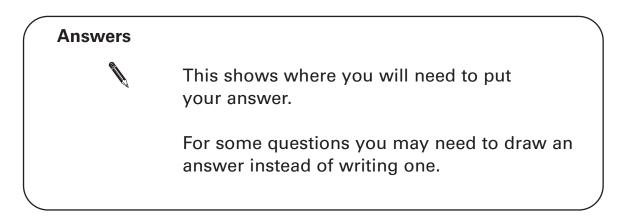
SCIENCE	PAGE MARKS 5 7 9 11
KEY STAGE 2 2005	13 15
TEST A LEVELS	17 19 20 TOTAL
<image/> <image/> <section-header></section-header>	<image/> <image/>
First Name	
Last Name	

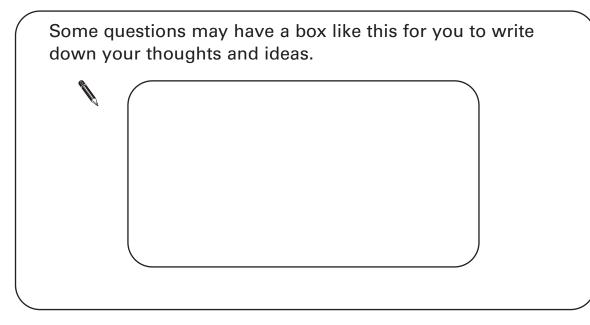
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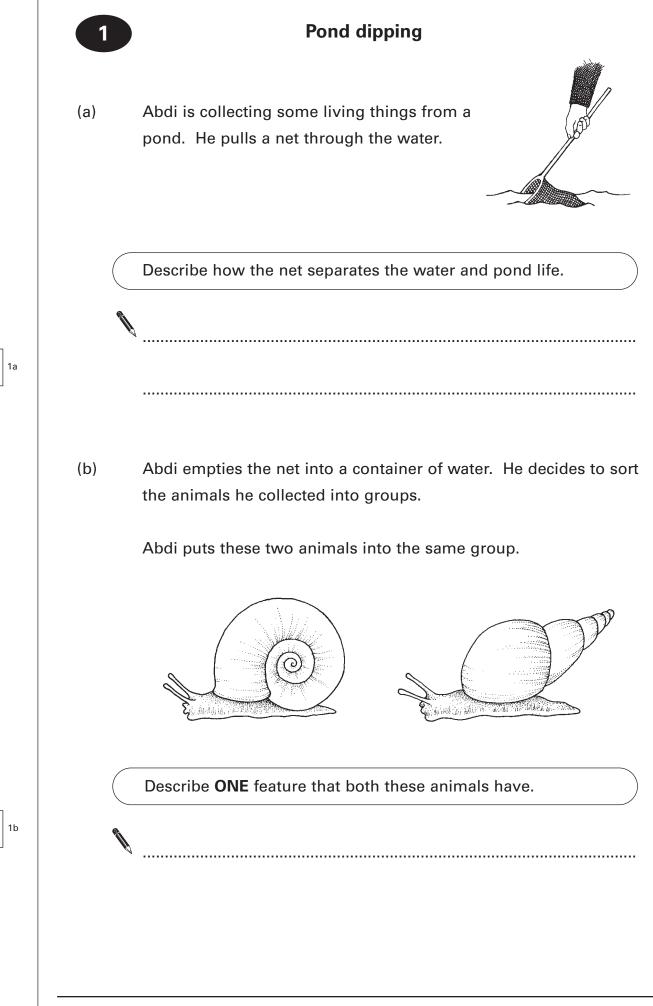
# INSTRUCTIONS

Read this carefully.

You have 45 minutes for this test.

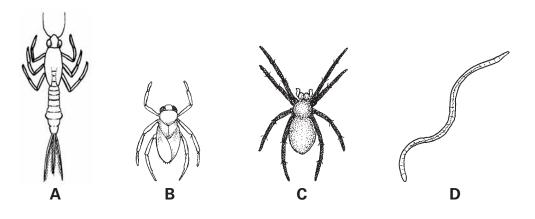






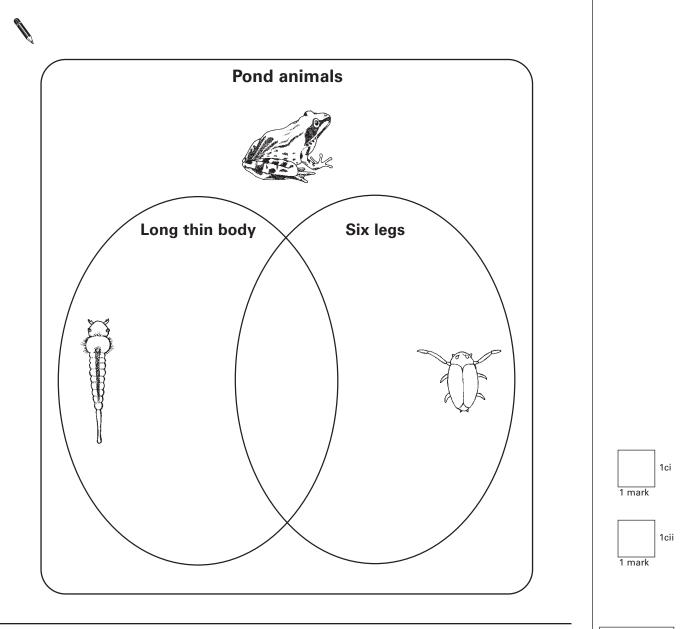
1 mark

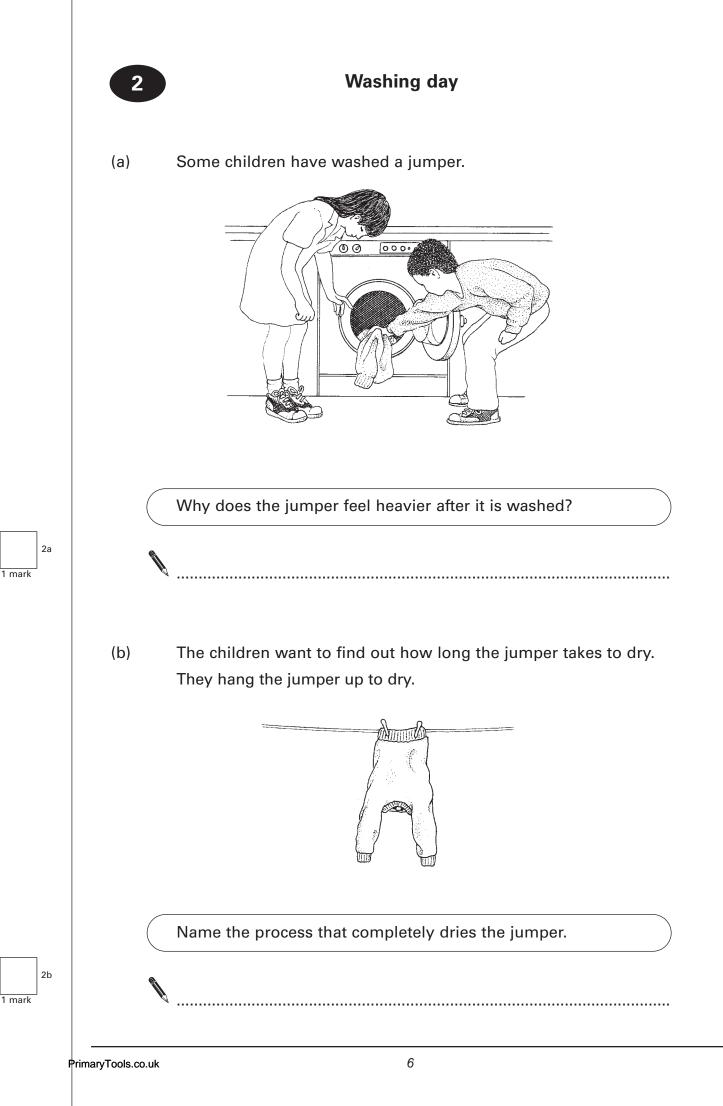
(c) Abdi sorts four more of the pond animals into groups.



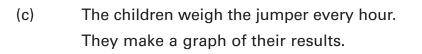
Write **A**, **B**, **C** and **D** to show which group each animal belongs to in the diagram below.

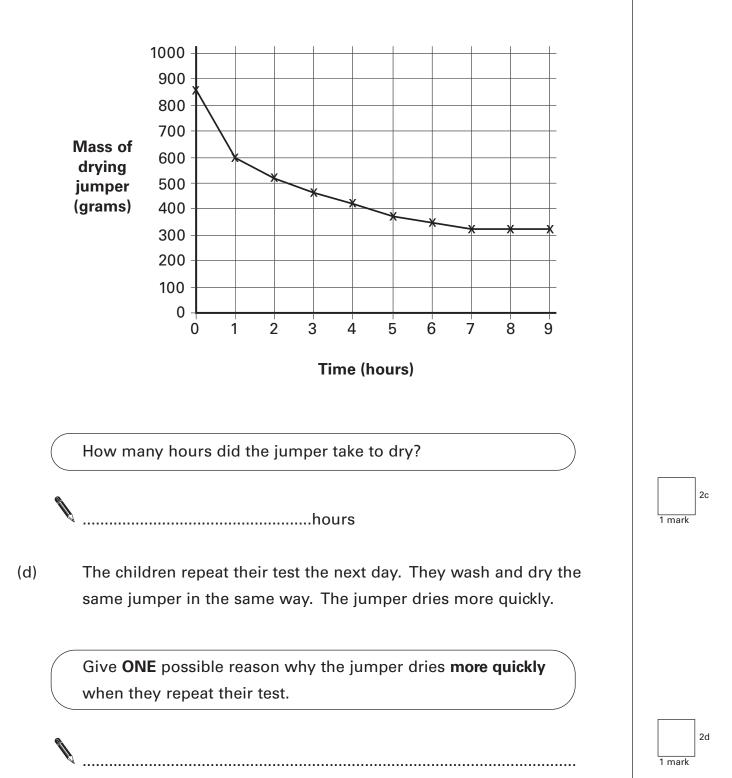
Some different animals have already been sorted.

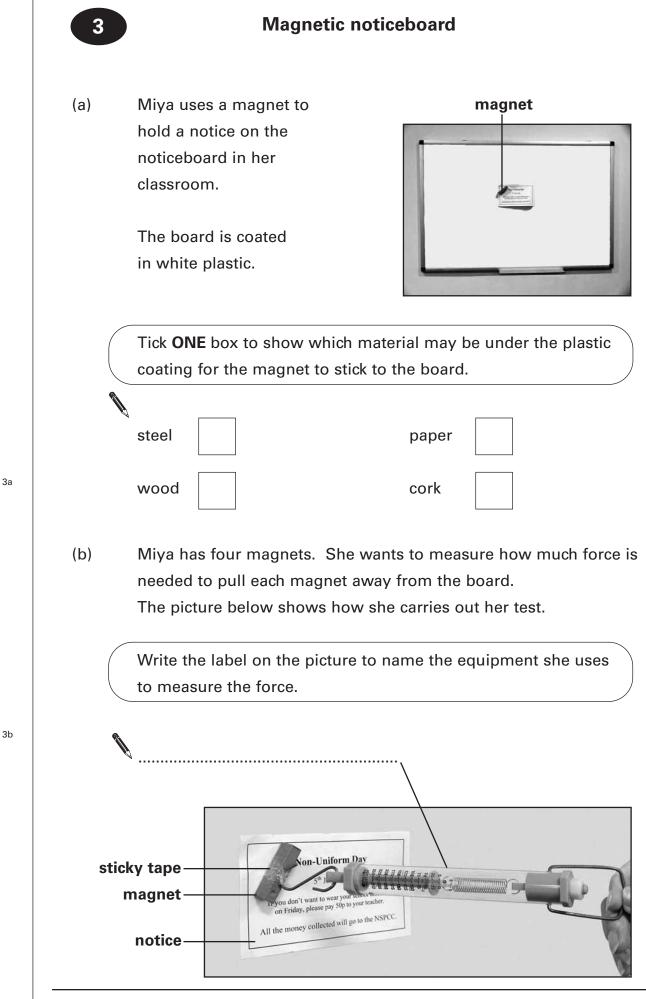












1 mark

3c

1 mark

(c) Miya measured the force for each magnet three times to calculate the average force.

Magnet	Average force needed to pull the magnet away (N)
А	2
В	10
С	5
D	6

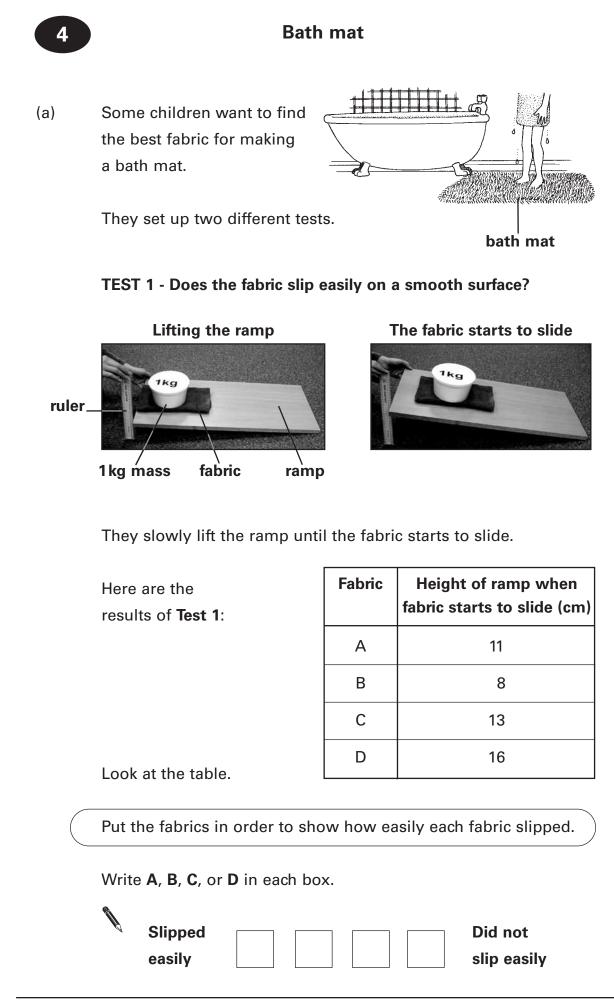
The table below shows her results.

Which magnet is the strongest?

N .....

(d) Miya observes that as she pulls on the magnet the force reading increases until the magnet comes away from the board.

Tick ONE box to show when Miya should take the force reading. before she starts just after she starts pulling on the magnet pulling on the magnet just before the after the magnet 3d magnet pulls away is pulled away 1 mark from the board from the board Give **ONE** reason why it is better to measure the force for each (e) magnet three times instead of just once. ..... 3e 1 mark



4a

What is the name of the force that makes it hard for the fabric to start moving?

.....

TEST 2 - Does the fabric absorb water? (c)

> The children pour the same amount of water onto each fabric. They hold up the fabric to let the water drip off.

Fabric **Observations** Here are the Α Almost no water drips off. results of Test 2: Nearly all the water drips off. В С Some of the water drips off. D No water drips off.

Look at the table.

(b)

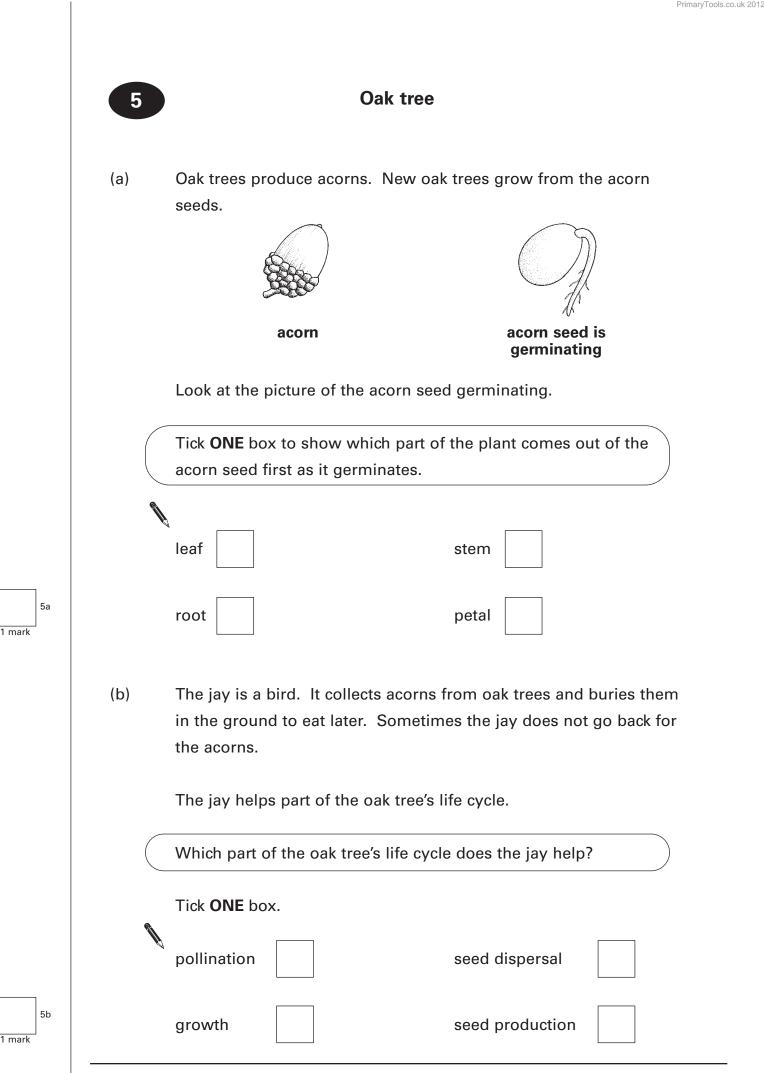
Put the fabrics in order to show how absorbent each fabric was.

Write **A**, **B**, **C**, or **D** in each box.

Most absorbent Least absorbent	4c 1 mark
(d) Look at the results of <b>Test 1</b> and <b>Test 2</b> .	
(i) Which fabric will make the best bath mat?	
	4di 1 mark
(ii) Give <b>TWO</b> reasons why the fabric you chose is better	
than the other fabrics.	4dii1
1.	1 mark 4dii2
2	1 mark

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4b



(c) The blue tit is a small bird.



The blue tit eats **one** of the four **animals** below.

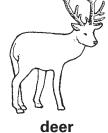


These four animals eat

parts of the oak tree.



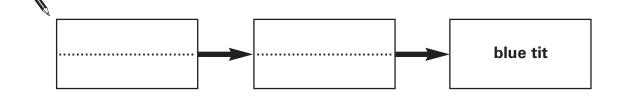






oak tree

Use the information given above to help you complete the food chain for the blue tit.



(d) The oak tree needs to take in light for healthy growth.

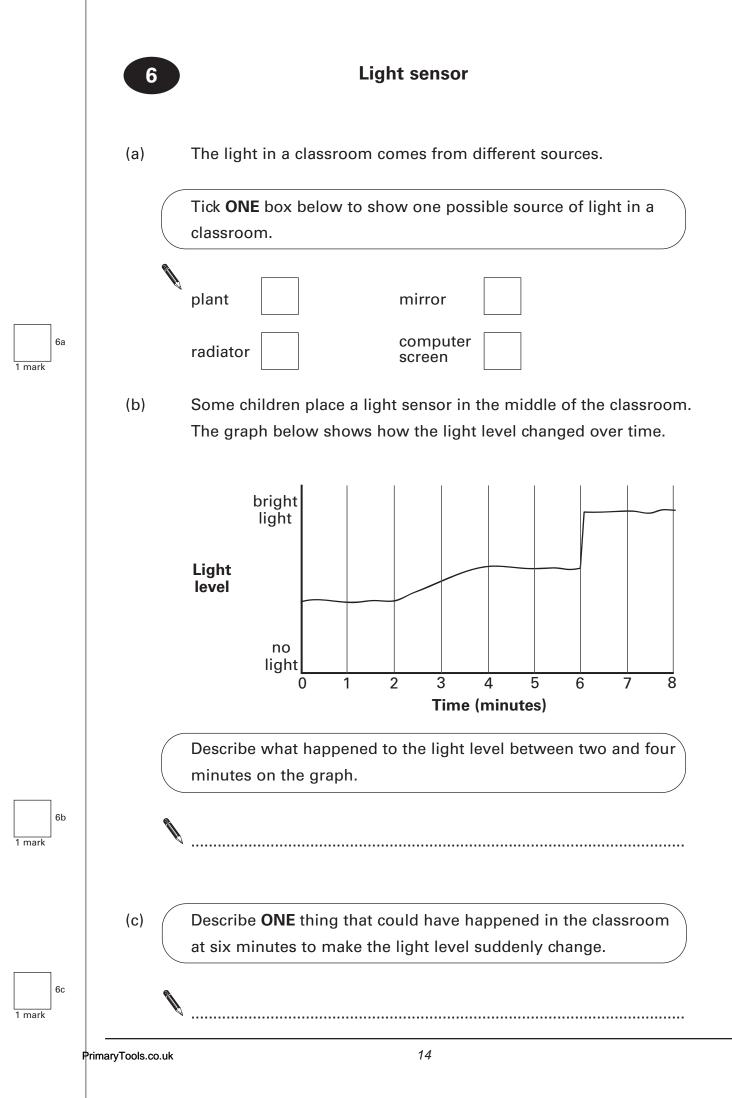
.....

Name **ONE** other thing the oak tree needs to take in for healthy growth.

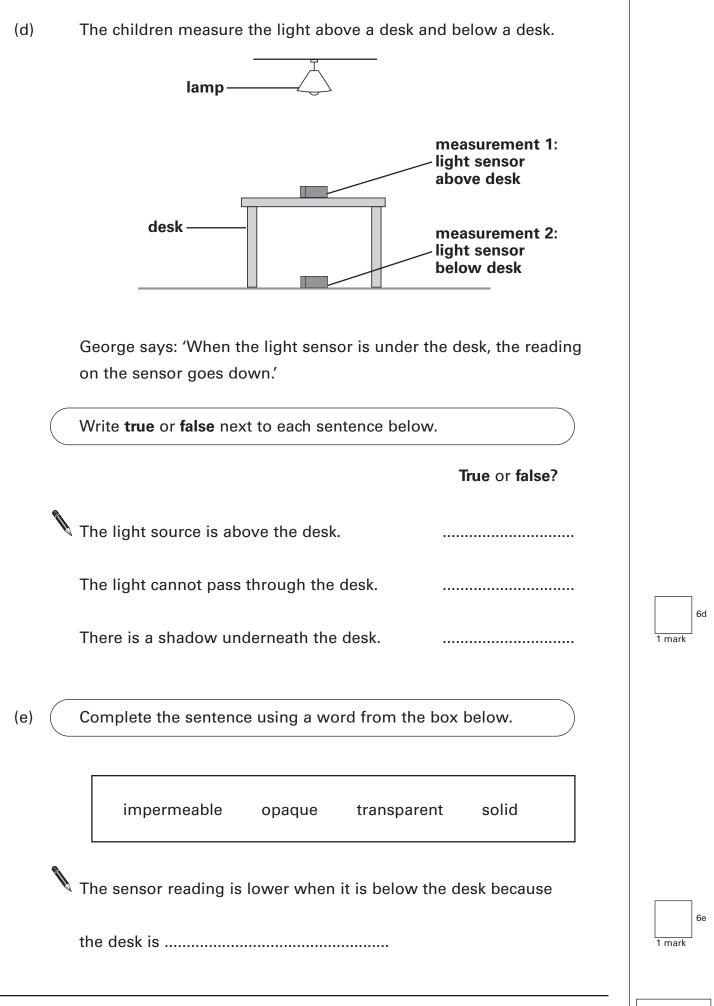
5d

1 mark

5c

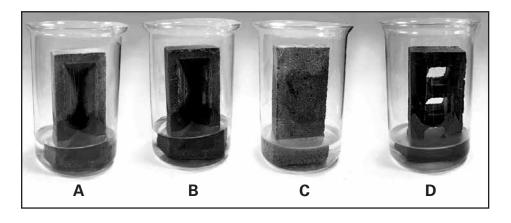






#### **Building materials**

Some children put 4 bricks made of different materials into (a) 1000 cm<sup>3</sup> of water and left them overnight.



They removed each brick and measured the amount of water left in each container.

Here is a table of their results.

	Amount of water in each container (cm <sup>3</sup> )	Amount of water left in the container (cm <sup>3</sup> )	Amount of water absorbed (cm <sup>3</sup> )
Brick A	1000	900	100
Brick B	1000	810	190
Brick C	1000	750	250
Brick D	1000	770	230

What question were the children investigating?

7

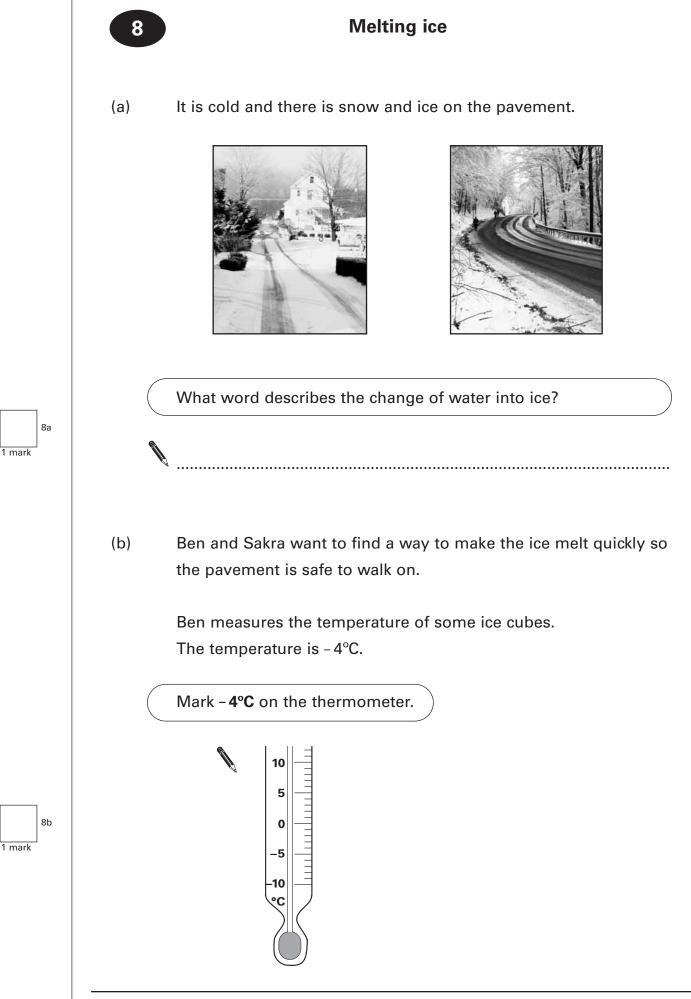
1 mark

.....

.....

(b)	What was the factor they changed as they carried out their	
	investigation?	
		7b 1 mark
(c)	Write <b>TWO</b> factors they should keep the same at the start to make their test fair.	7ci
	1	1 mark
	2	1 mark
(d)	Suggest <b>another</b> set of data they could collect to compare these bricks.	
		7d
		1 mark

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8c

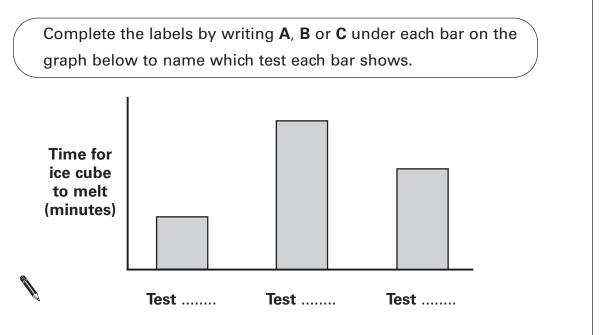
1 mark

(c) Sakra puts three ice cubes on three separate dishes. She leaves one uncovered, she covers one with a tablespoon of salt and one with a tablespoon of flour.

Test	Α	В	С
Description	uncovered ice cube	ice cube with <b>salt</b>	ice cube with <b>flour</b>
Time for ice cube to melt (minutes)	100	40	130

Ben and Sakra record how long it takes each ice cube to melt.

Sakra and Ben draw a graph of their results.



(d) Ben says that flour seems to make the ice melt more slowly.

Tick ONE box to show a possible reason for flour making ice

melt more slowly.

Flour lets heat pass

through quickly.

Flour dissolves ice.

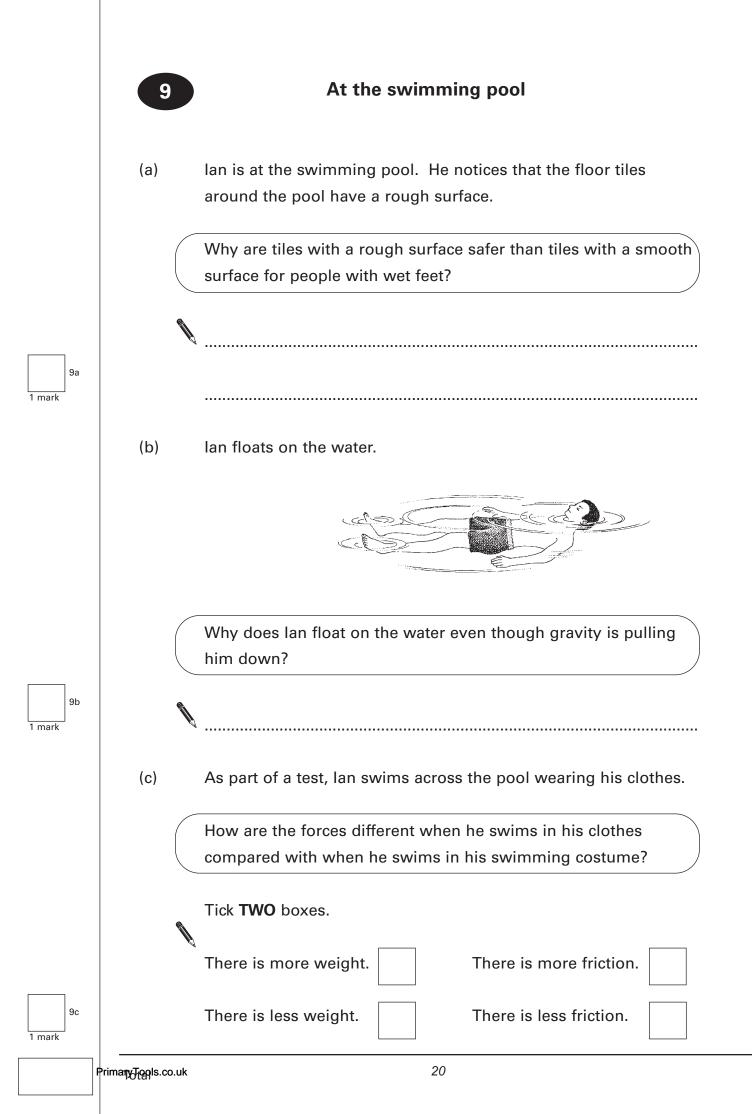
Flour is at a lower

temperature than ice.

Flour insulates ice.

Imark





## **END OF TEST**

Please check your answers

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QCA key stage 2 team, 83 Piccadilly, London W1J 8QA

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