## States of Matter Revision Term 3

Name:-\_\_\_\_\_ Date:-\_\_\_\_ Class/Sec:-\_\_\_\_

Q1. (a) It is cold and there is snow and ice on the pavement.





What word describes the change of water into ice?

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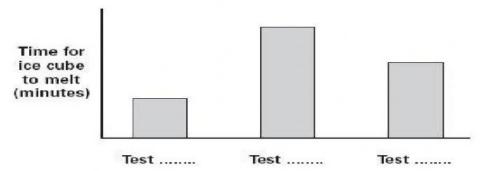
(b) Sakra puts three ice cubes on three separate dishes. She leaves one uncovered, she covers one with a tablespoon of salt and one with a tablespoon of flour.

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

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

Sakra and Ben draw a graph of their results.

Complete the labels by writing  ${\bf A},\,{\bf B}$  or  ${\bf C}$  under each bar on the graph below to name which test each bar shows.



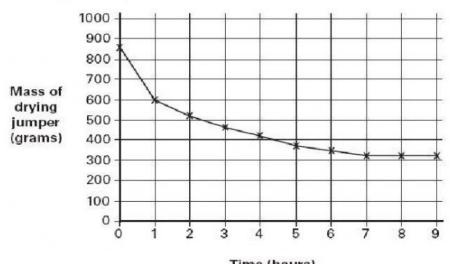
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	Tick <b>ONE</b> box to show a possible reason for flour making ice melt more Flour lets heat pass through quickly.  Flour dissolves ice.	re slowly.
	Flour is at a lower temperature than ice. Flour insulates ice.	
<b>Q2.</b> (a)	Some children have washed a jumper.	
4	Why does the jumper feel heavier after it is washed?	
(b)	The children want to find out how long the jumper takes to dry.	
	They hang the jumper up to dry.	
	Name the process that completely dries the jumper.	
4.		

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(c) The children weigh the jumper every hour.

They make a graph of their results.



Time (hours)

How many hours did the jumper take to dry?

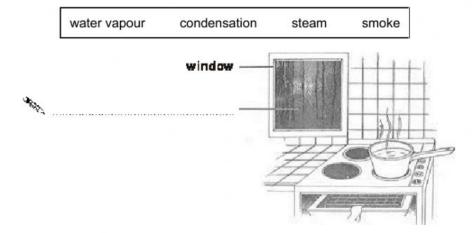
h
hours

(d) The children repeat their test the next day. They wash and dry the same jumper in the same way. The jumper dries more quickly.

Give **ONE** possible reason why the jumper dries **more quickly** when they repeat their test.

**Q3.** Layla watches some water boiling near a window. The picture shows what she can see on the window.

 Write the missing label for the picture below by choosing from the words in the box below.



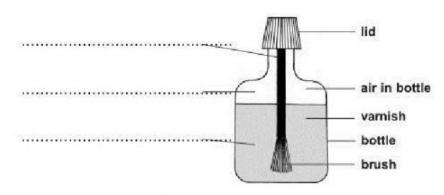
(ii)	Why does the level of the water inside the saucepan go down if the water
	continues to boil?



## Q4. (a) Lorna has a bottle of nail varnish.

Write solid, liquid or gas to label each part of the diagram.





(b) Lorna stands at the front of the classroom. She takes the lid off the nail varnish bottle.

The table below shows the time it took for the smell of the varnish to reach different children.

Child	Time taken to smell varnish (seconds)
A	20
В	5
С	12

Complete the diagram below by writing  ${\bf A},\,{\bf B}$  or  ${\bf C}$  on each line to show the position of each child.



Lorna with

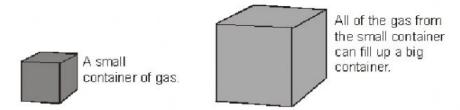




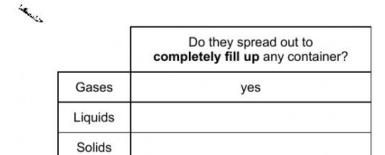


	Draw <b>THREE</b> lines to ma a gas.	tch the name g	iven to	water when	it is a sol	id, a liquid a
	ice				solid	
	water				liquid	
	water vapour				gas	
(d)	Answer the questions in	the table by tio	cking the	e correct bo	ox in each	row.
*Ca	Questio	n :	Solid	Liquid	Gas	
	Which forms during evaporation?	9				
	Which keeps its ov	vn shape?				
	Which forms during condensation?	9				
	Which spreads out sized container?	to fill any				
<b>Q5.</b> (a)	Megan has three cups.T	here is a solid	in one c	cup, liquid ir	n another,	and gas in
	Megan writes a description	on of what is in	each cu	ıp.		
	Draw <b>THREE</b> lines to ma each cup.	tch solid, liquid	and ga		st descript	ion of what
	solid			annot see a ide the cup	nything	
					the materi	

(b) Megan's teacher says gases spread out to completely fill up any container.



Write yes or no in each row to complete the table.

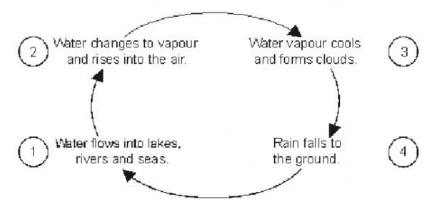


Q6. (a) Evaporation and condensation are changes that happen in the water cycle.
Are evaporation and condensation reversible? Write yes or not on each row.

4

Change	Is the change reversible?
evaporation	
condensation	

(b) This diagram shows the water cycle.



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	1 2 3 4
	If the temperature is very cold, the rain cools down and changes.
1	What change will happen to the rain if it gets very cold?
	<ul> <li>Jamal is thinking about how to keep ice cubes from changing into water on a hot day.</li> </ul>
	Jamal says 'I think if you put the ice cubes inside lots of plastic bags they will stay frozen for longer.'
	Tick ONE box to show what sort of statement Jamal has made.
	an observation a prediction
	a conclusion a measurement
	Jamal puts four ice cubes in different numbers of plastic bags.
	4 ice cubes 4 ice cubes 4 ice cubes with no bag in 1 bag in 2 bags in 3 bags
	He records the time it takes the ice cubes to change to water.

Number of plastic bags	Time for ice to change to water (minutes)		
0	140		
1	160		
2	205		
3	225		

Choose **ONE** word from the box below to complete the sentence about the plastic bags.

	8			
نورد	The table shows that the ice change		lowly.	by the plastic bags so
(d)	Tick <b>ONE</b> box to	show the tempera	ture of water when	it changes to ice.
4				
	-10°C	0°C	10°C	100°C

dissolved condensed heated insulated evaporated

Q8. (a) When a candle is lit, some changes happen.



Some of the wax melts.

Some of the wax burns.

Are the changes in the table reversible? Write **yes** or **no** in each row.

Change	Is the change reversible?
The wax melts.	
The wax burns.	

	(b)	Write true or false next to each statement below	
			True or false?
	4	The wax must be heated to melt.	
		When a solid melts it changes into a gas.	
		Temperature shows how hot or cold something is.	
<b>Q</b> 9.	. (a)	Scott makes ice cubes.	
		He pours water into an ice cube tray.	
		Scott puts the ice cube tray into the freezer.	
		The temperature of the water changes when it is in the freezer.	
		What happens to the temperature of the water after it is put in the freezer?	
	4		
	(b)	Name <b>ONE</b> piece of equipment Scott could use to measure the temperature of the water.	
	ie.		
	(c)	The water in the ice cube tray freezes and becomes ice.  Write <b>true</b> or <b>false</b> next to each statement about freezing.  True or <b>false</b> ?	
		Water freezes at 100°C.	
		Freezing water is a reversible change.	
		Freezing is a change from solid to liquid.	