Anglo-Chinese School (Junior)

BITE-SIZED ASSESSMENT THREE (2025)
PRIMARY 5

SCIENCE

Monday 18 AUGUST 2025 45 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 10 questions in this booklet.

Answer ALL questions.

Name: _____ ( )

Class: 5. ( )

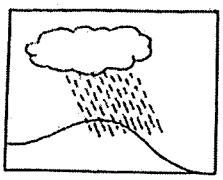
Parent's Signature: _____

	Possible Marks	Marks Obtained
TOTAL	25	

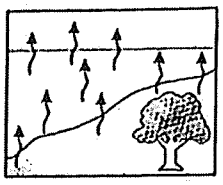
This question paper consists of 11 printed pages. (Inclusive of cover page)

Answer questions 1 to 10. The number of marks available is shown in the brackets [ ] at the end of each question. (25 marks)

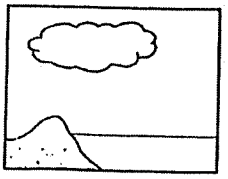
1. The diagrams show the various stages of the water cycle.



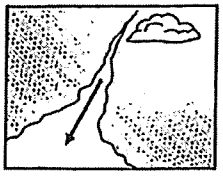
W : Rain falls.



X : Water evaporates from various water bodies.

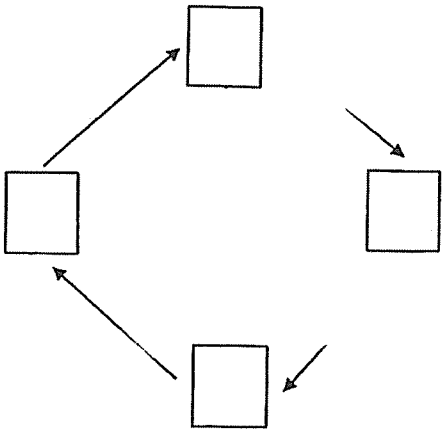


Y : Clouds form.



Z : Water flows to various water bodies.

(a) Arrange the stages in the correct order by filling in the boxes with the letters W, X, Y and Z. [1]



(b) Name the two processes that take place in the water cycle. [1]

_____

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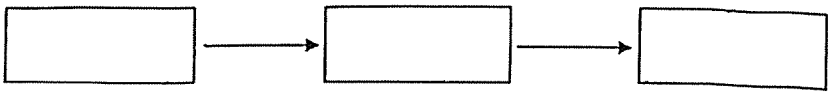
SCORE	2

2. The diagram shows Mr Daniel drinking a cup of hot coffee. His spectacles became misty as he drank his hot coffee as shown.

(a) What were the changes of state of water for the above observation? [1]



(b) His spectacles became clear again after a while. Explain why. [1]

_____

_____

(Go on to the next page)

SCORE	2

3. The diagram shows Andy hanging his wet clothes on the clothesline in the morning. He did not finish hanging all the clothes and left some in the basket.

(a) He came back in the evening and realised that the clothes in the basket were still wet. Explain why. [2]

_____

_____

_____

(b) Name two other factors which affects the rate of evaporation. [1]

_____

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SCORE	3

4. Shamir placed a glass of cold water and ice cubes in a sealed transparent box as shown in the diagram. He then waited for 10 minutes.

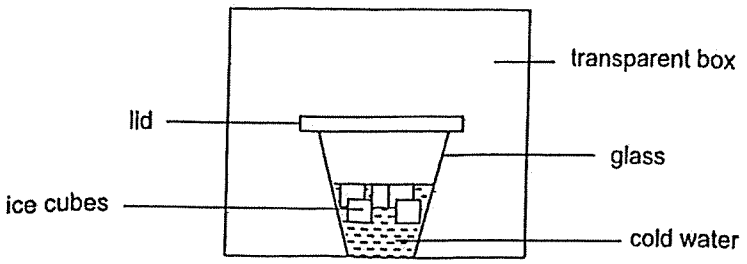


Diagram 1

(a) The amount of water vapour in the air decreased in the box after 10 minutes. Explain why. [2]

Shamir then placed a hot glass of water in another similar box.

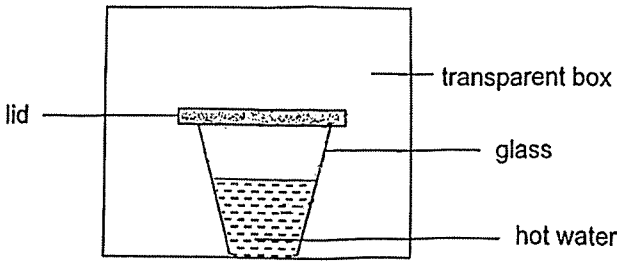


Diagram 2

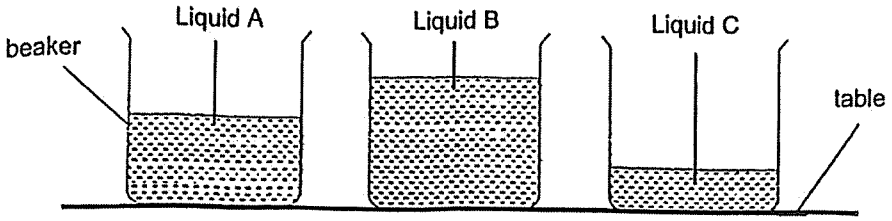
(b) What would happen to the amount of water vapour in the air in the box after 10 minutes? [1]

(c) In diagram 2, **draw** where water droplets will be formed. [1]

(Go on to the next page)

SCORE	4

5. Danny wanted to find out which type of liquid, A, B or C, evaporated the fastest. He prepared three beakers each with 500 ml with each type of liquid and left them on a table in the science lab. At the end of three hours, the volume of each liquid left was as shown.



(a) Based on Danny's observations, what can he conclude about liquid B? [1]

_____

(b) Name two other variables Danny should keep constant in his experiment for a fair test. [1]

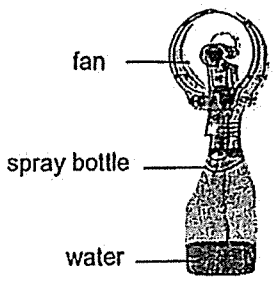
_____

_____

(Go on to the next page)

SCORE	2

6. Daniel used a handheld mist fan to cool himself down on a hot day. He usually turns on the fan which cools him down. However, on some days, he also turns on the mist, causing water to be sprayed on him, which helps him cool him down further.



(a) Explain why he cools himself down further when he turns on the mist in the fan. [2]

_____

_____

_____

_____

(b) Suggest one change Daniel can make to the water so that it can help to cool him down faster. [1]

_____

7. All living things need water for their life processes. Suggest one way we can help to conserve water at home. [1]

_____

_____

(Go on to the next page)

SCORE	4

8 The melting points and boiling points of three substances, P, Q, and R are shown in the table.

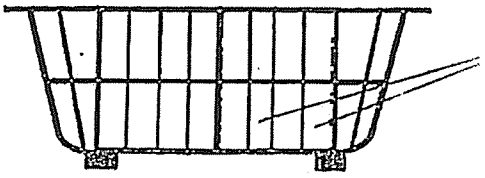
Substance	Melting Point (°C)	Boiling Point (°C)
P	Below 0	10
Q	4	70
R	40	200

Chris has a closed container of volume 200 cm^3. He stored 250 cm^3 of a substance in the container at 30°C.

(a) State which substance, P, Q or R did he store in the container. Explain your answer.

[2]

Chris has a plastic tray as shown.



gaps in tray

(b) State if he can store substance Q in the tray at 30°C. Explain your answer.

[1]

SCORE	/ 3

9. List the procedure to carry out an investigation using only the following materials to find out how the presence of wind affects the rate of evaporation of water. The final step has been done for you. [2]

Materials:

2 similar paper towels
Syringe
Beaker with 10ml of water
Electronic balance
Hair dryer

1. _____

_____

2. _____

_____

3. _____

_____

4. _____

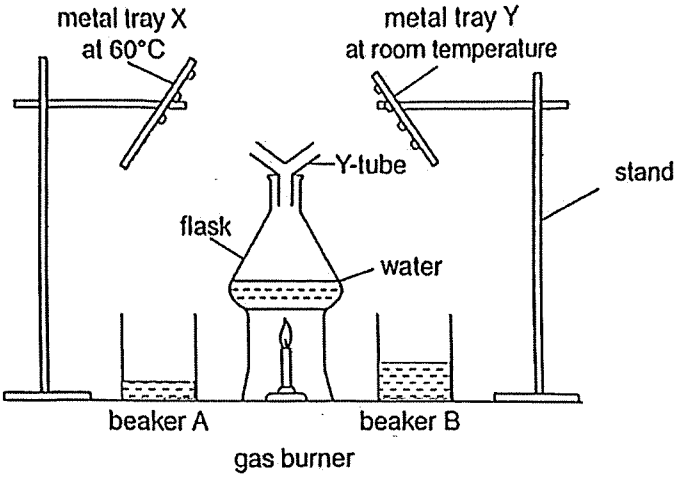
_____

5. Compare the results.

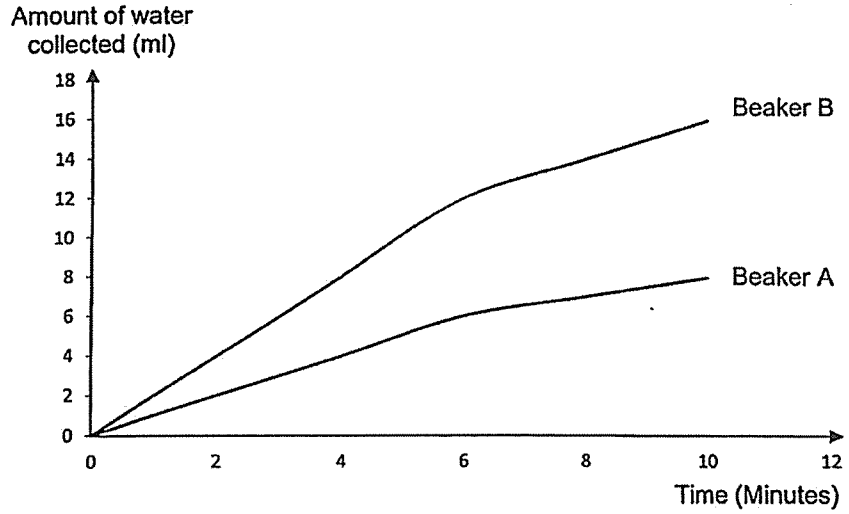
(Go on to the next page)

SCORE	/ 2

10. Tim set up the experiment with two identical trays, X and Y, as shown. Tray X was at 60°C and tray Y was at room temperature. Water droplets formed on each tray and were collected in beakers A and B.



He then measured the amount of water collected in each beaker at the end of 10 minutes and plotted graph as shown.



(a) State the aim of Tim's experiment. [1]

_____

_____

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SCORE	/ 1

(b) Explain why more water was collected in beaker B than beaker A. [1]

_____

_____

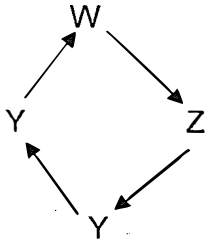
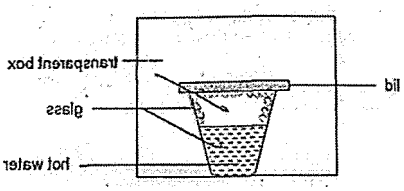
(c) Suggest one change Tim can make to Tray Y to collect water faster with beaker B. [1]

_____

End of Paper

SCORE	/ 2

SCHOOL : ACS (J) SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : WA3 2025

1)	a)  b)Evaporation and condensation
2)	a)Liquid → Gas → Liquid b)Gained heat and evaporated.
3)	a)The clothes in the basket has smaller exposed surface area and so they could not dry in time as the water evaporated slower, so the water did not gain heat slower. b)The presence of wind and the temperature of the surrounding air.
4)	a)The water vapour in the box came into contact with the outer surface of the glass where the cold water was touching, lost heat to it and condensed into water droplets and so the water vapour decreased as it turned into water droplets. b)The amount of water vapour will remain the same. c 
5)	a)B evaporate the slowest. b)The material of the beaker and the temperature of the liquids before

6)	a) The mist is tiny water droplets and when the tiny water droplets touch his skin his body will lose heat to the tiny water droplets and he will feel cooler, and the water droplets will evaporate. b) Add ice cubes to the water.
7)	Turn off the tap when we are brushing our teeth.
8)	a) P. He could store more then 200 cm^3 of a substance inside showing that it would be in it's gaseous state and substance P would be in it's gaseous state at 30 C so it could be compressed. b) No. Substance Q will flow through the gaps as at 30 C it will be in it's liquid state and it has no definite shape.
9)	1) Wet the two paper towels with 5 ml of water each using syringe. 2) Measure mass of each paper towels using electronic balance. 3) Turn on the hair dryer and put it in front of a paper towel and leave the other only and wait for 5 minutes. 4) Weigh each paper towel using an electronic balance.
10)	a) To find out how the temperature of the metal trays affect the amount of water collected. b) The temperature difference was higher between the metal tray and water vapour and condensation occurred at a faster rate. c) Add ice on tray Y.