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Henry Park Primary School
P5 Science
2024 Weighted Assessment 2 – Paper 1

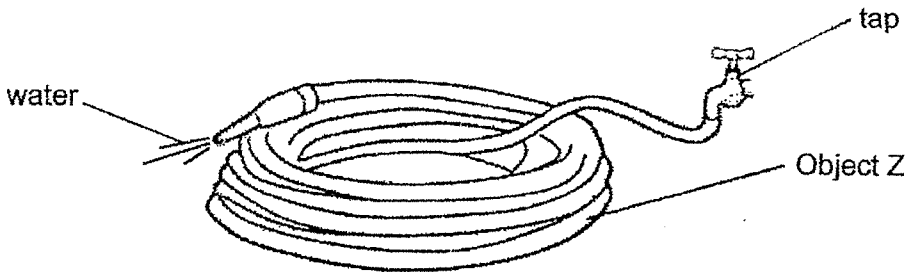
**Duration of Paper : 25 min**

Name: _____ (  )

Class: Primary 5 (  )  Parent's Signature: _____

**Task 1 (4 marks)**

(a) You are given 3 materials, P, Q and R.




(i) Which one of the materials, P, Q or R, can be used to make object Z as shown in the diagram above? Give a reason for your choice of the answer. [1]

_____

_____

(ii) Object Z can be coiled and water can flow inside it.

Using the property of liquids, explain how water is able to flow through it. [1]

_____

_____



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**Task 1 (Continue)**

(b) You are given 2 materials, A and B, and 2 beakers of water.

Dip each of the materials into each beaker of water.

(i) Based on your observation, which material, A or B, is the most suitable for cleaning any liquid spillage on the table after a meal? [1]

_____

(ii) Give a reason for your choice of the answer in (b)(i) [1]

_____

_____

**Task 2 (4 marks)**

You are given the following items:

- A ruler
- A cup
- A measuring cylinder
- Objects X and Y
- Water

(a) (i) Which one of the following items is the most appropriate to use to find the volume of object X?

ruler cup measuring cylinder

Give a reason for your answer. [2]

_____

_____

(ii) Using the water provided, find the volume of object X and write the answer in the space below. [1]

+he volume , then

_____

(b) Place object Y into the water in the measuring cylinder.

Based on your observation, explain why you cannot use the method you used in (a)(ii) to find the volume of object Y. [1]

_____

_____



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**Henry Park Primary School**
**P5 Science**
**2024 Weighted Assessment 2 – Paper 2**

**Duration of Paper : 25 min**

Name: _____ (  )

Class: Primary 5 (  )  Parent's Signature: _____

**Section A (6 marks)**

For each question from 1 to 3, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write the answers in the boxes given below.

| 1. | | 2. | | 3. | |
|---|---|---|---|---|---|

**1** Diagram 1 below shows a ring magnet lowered into a tray of steel pins. Diagram 2 shows the bottom view of the ring magnet.

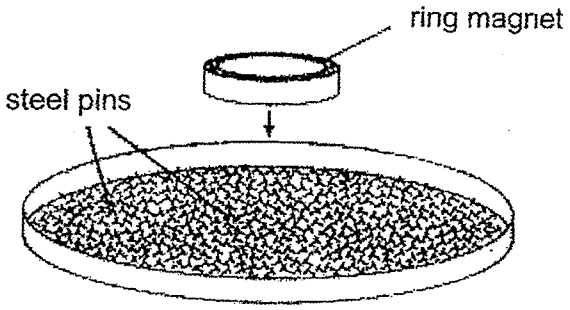



**Diagram 1**

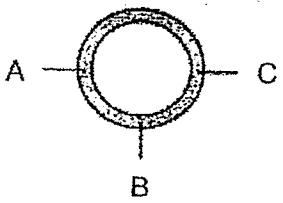



**Diagram 2**

Which of the following most likely shows the number of pins attracted to the bottom of the ring magnet at positions A, B and C?

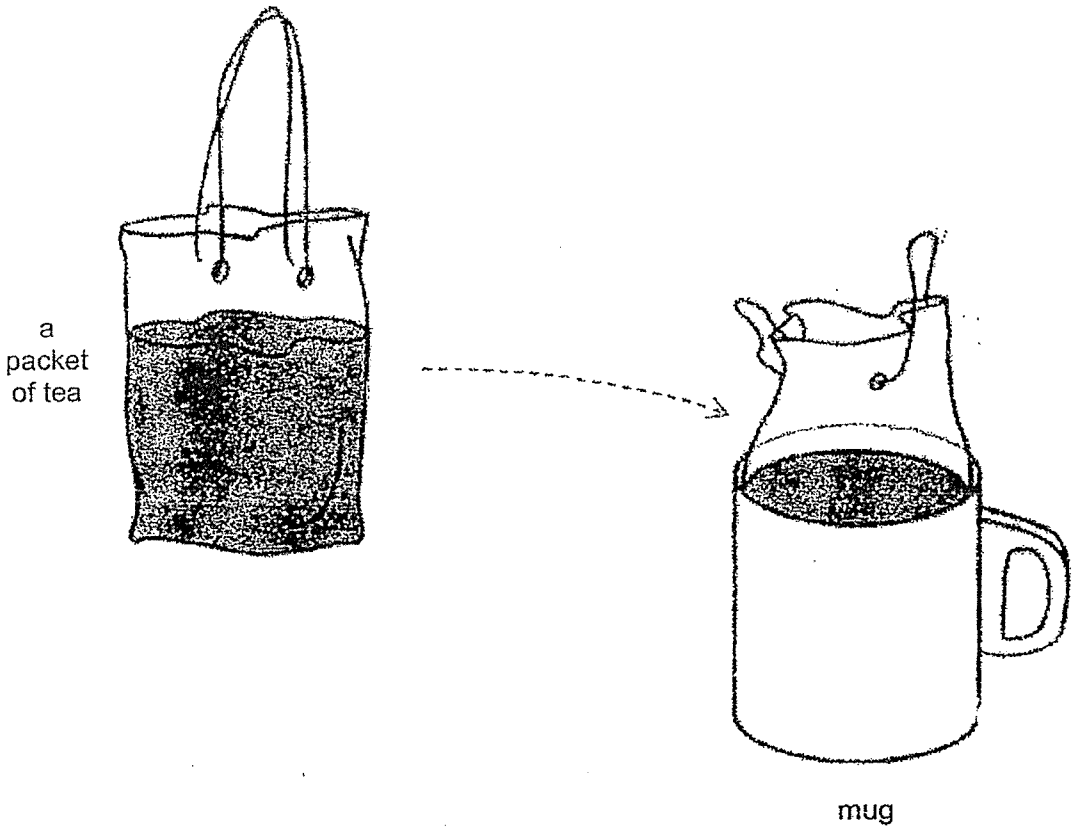
| | A | B | C |
|---|---|---|---|
| (1) | 15 | 10 | 5 |
| (2) | 10 | 10 | 10 |
| (3) | 12 | 6 | 12 |
| (4) | 6 | 18 | 6 |

(  )



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2 Jonathan placed a packet of tea into a mug without spilling it as shown in the diagram below.




Which of the following about the packet of tea is correct?

(1) Both the shape and volume of the tea changed.
(2) The shape of the tea changed but the volume did not.
(3) The volume of the tea changed but the shape did not.
(4) Both the shape and volume of the tea did not change.

(  )



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3 Gopal set up four experiments, W, X, Y and Z, using water in containers made of the same material.

The table below shows the different conditions at the start of each experiment.

| Variable | Experiment | | | |
|---|---|---|---|---|
| | W | X | Y | Z |
| Room temperature (°C) | 28 | 28 | 31 | 28 |
| Exposed surface area of water ($cm^2$) | 60 | 120 | 60 | 60 |
| Volume of water ($cm^3$) | 500 | 500 | 500 | 400 |

Gopal wanted to investigate how the rate of evaporation of water was affected by the room temperature.

Which of the following two experiments should Gopal compare?

(1) W and Y

(2) X and Z

(3) Y and X

(4) Z and Y

( )

End of Section A

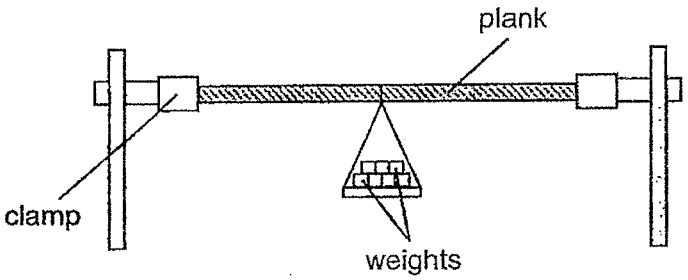


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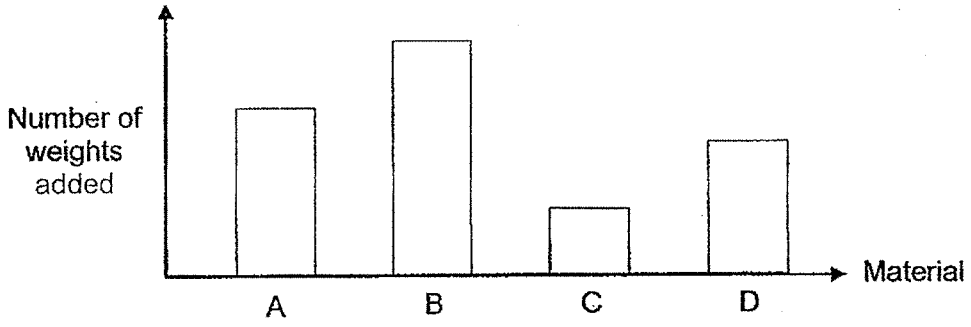
## Section B (6 marks)

For questions 4 to 5, write your answers in the spaces provided.

**4** James set up the following experiment to investigate four similar planks of different materials, A, B, C and D.




For each material, he added weights until the plank broke. The graph below shows the results of James' experiment.




a) Which property of the materials was James trying to investigate in his experiment? [1]

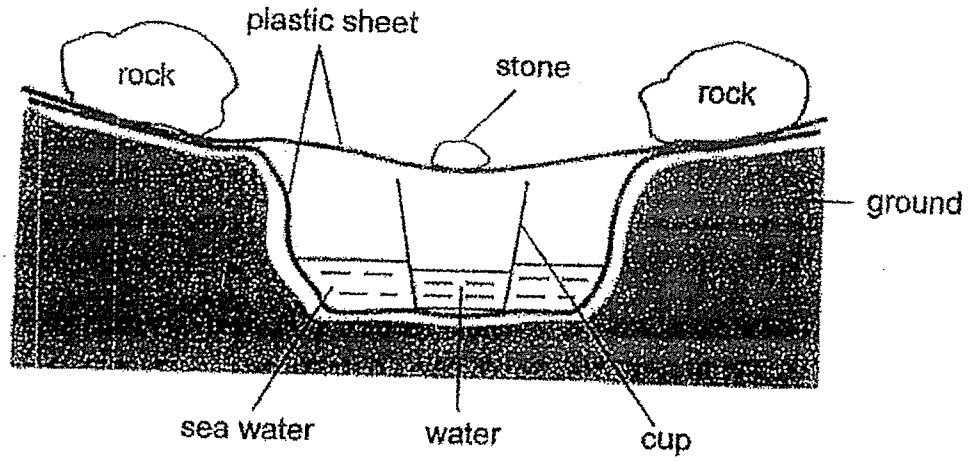
b) State a variable that James had to keep the same in order for him to carry out the experiment fairly. [1]

c) Based on the results, which material, A, B, C or D, should James use if he wants to make a bookshelf that can hold heavy books. [1]
Give a reason for your answer.



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5 On a hot day, a group of scouts went camping at a beach. To obtain fresh water from the sea water, they constructed a set-up as shown in the diagram below.




a) What is the purpose of the plastic sheet used in the above set-up? [1]

b) After a few hours, fresh plain water was collected in the cup. [2]

Describe how fresh plain water was obtained.

End of Section B



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SCHOOL: HENRY PARK PRIMARY SCHOOL

SUBJECT: SCIENCE

LEVEL: PRIMARY 5

PAPER: 2024 Weighted Assessment 2

PAPER 1

Task 1:

(a) (i) Material Q. It does not absorb water and is flexible.

(ii) Liquids do not have a definite shape, thus it can flow through object Z easily.

(b) (i) Material B

(ii) B absorbs the most amount of water, thus it is an absorbent material.

Task 2:

(a) (i) Measuring cylinder. It is the most accurate in measuring volume.

(ii) 2ml

(b) Object Y is able to float on the surface of the water, thus the measurement for the volume of Y will not be accurate.

PAPER 2

Section A:

| Q1 | Q2 | Q3 |
|---|---|---|
| 2 | 2 | 1 |

Section B:

Q4. (a) Strength

(b) The thickness of each plank

(c) B. It needed the greatest number of weights to break, so it can support heavy books without breaking.

Q5. (a) To act as a cooler surface for the water vapour to condense into water droplets



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(b) The seawater gained heat from the surrounding and evaporated into water vapour. When the water vapour touched the cooler plastic sheet, the water vapour lost heat and condensed into water droplets. The water droplets then flowed into the cup.

END 2

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