8

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

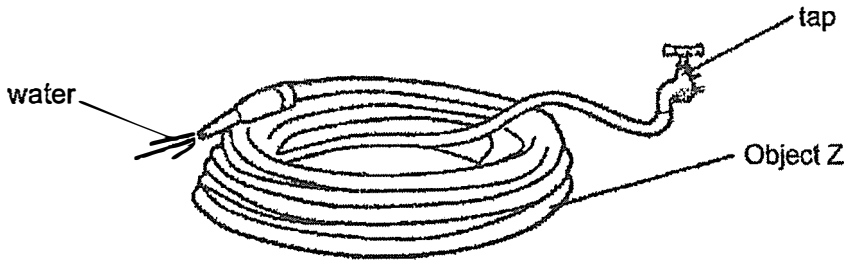
Duration of Paper : 25 min

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]

_____

_____

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]

_____

(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]

_____

_____

12

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.

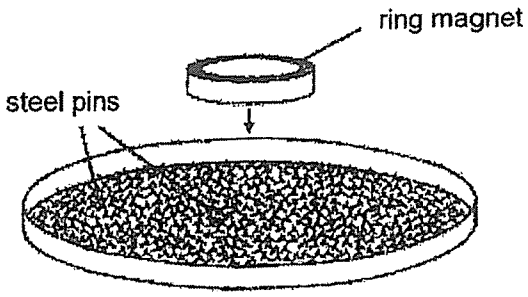


Diagram 1

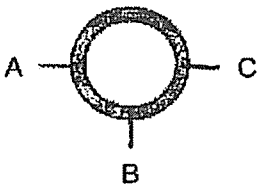


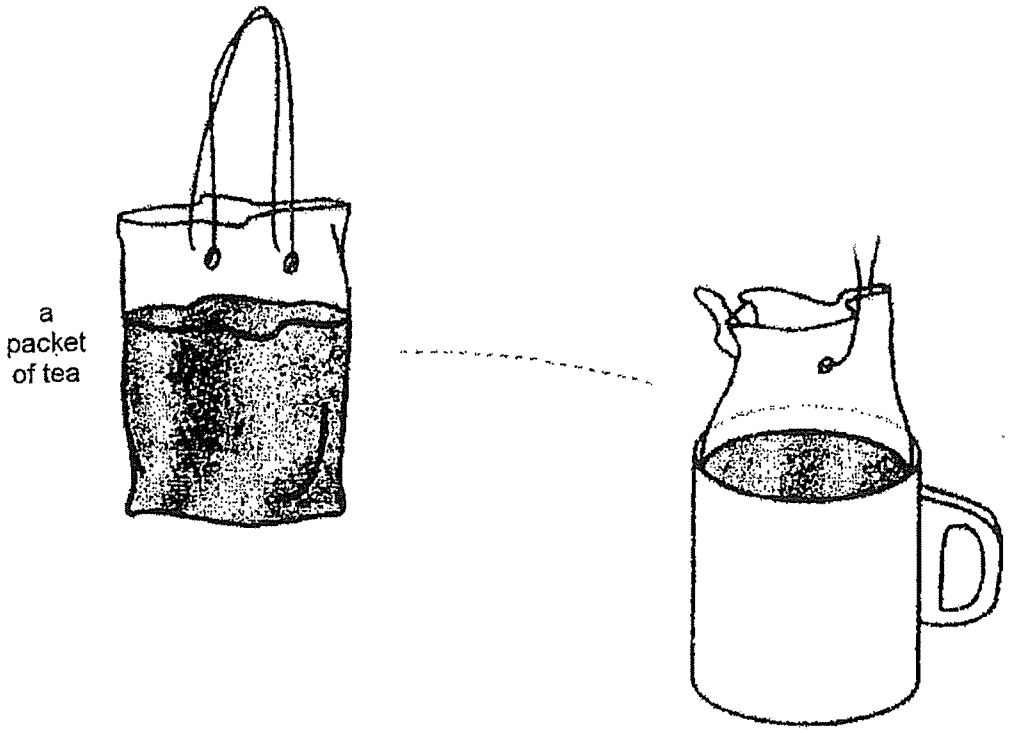
Diagram 2

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

( )

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.

( )

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

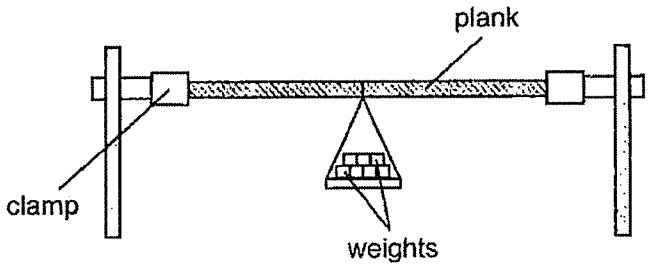
( )

End of Section A

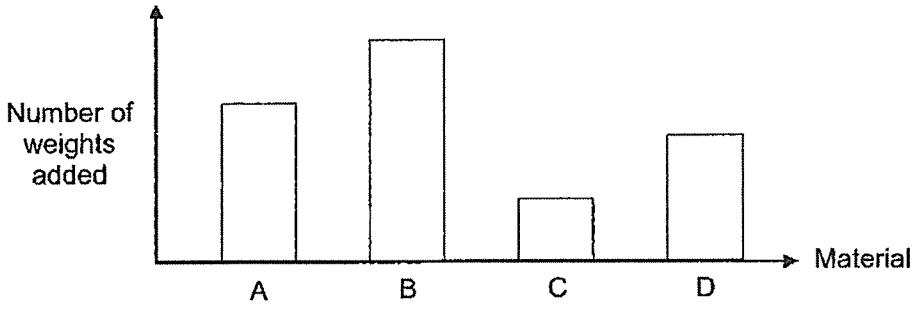
Section B (6 marks)

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.

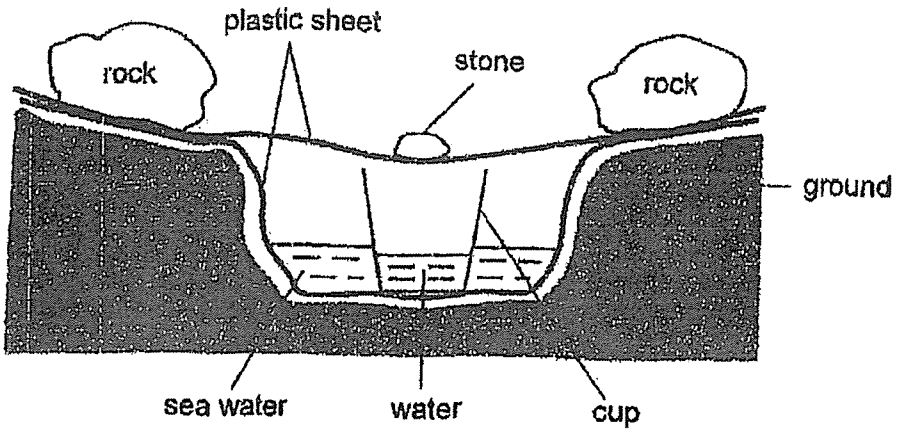


a) Which property of the materials was James trying to investigate in his experiment? [1]

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.

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

2024P5 Science WA2: Correction Worksheet

PAPER 1

Answer	Correction
Task 1 (a)(i) Q. It is flexible [½] & can be stretched without breaking.[½] (ii) Water has no definite shape / takes the shape of the object it is contained. [1] (b)(i) B [1] (ii) Material B is more absorbent.[1]	**Task 1** (a)(i) (ii) (b)(i) (ii)
Task 2 (a)(i) Measuring cylinder [1] More accurate since it has more markings [1] (a)(ii) 2 ml to 3 ml (Do not accept 1 ml) (Note : Minus [½] if unit is omitted) (b) Y floats on the surface of the water / cannot be fully submerged or immersed in water. [1]	**Task 2** (a)(i) (a)(ii) (b)

PAPER 2

SECTION A 1. 2 2. 2 3. 1	1. 2. 3.
SECTION B 4(a) Strength [1] 4(b) Any one of the following : [1] Length of the plank / Thickness of the plank / Width of the plank / Mass of the weight / Size of the weight (Reject: same plank/ same weight) 4(c) Material B. B needs greatest number of weights to break / is the strongest [½] and so, it can withstand / support heavy books without breaking. [½]	4(a) 4(b) 4(c)
5(a) To allow water vapour to condense [½] into water (droplets) [½] OR The seawater will not seep / flow into the soil / sand / ground [1] 5(b) The seawater gained heat [½] and evaporated [½] and lost heat [½] to the cool plastic sheet and condensed [½] into water droplets which then fell into the cup.	5(a) 5(b)