



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

12

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.	
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- 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.

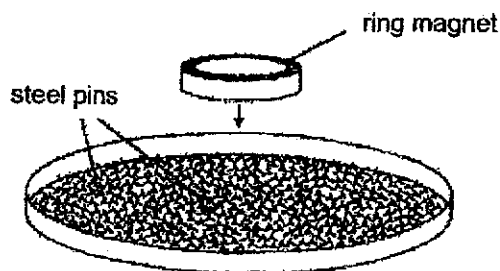


Diagram 1

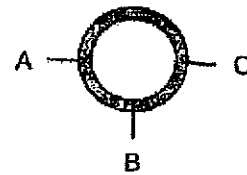


Diagram 2

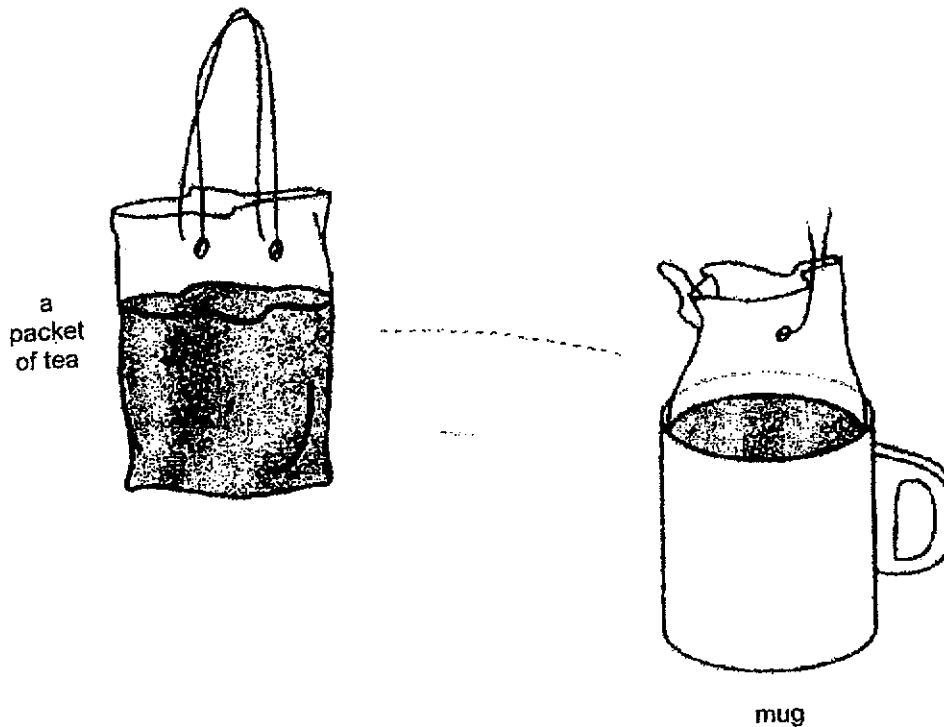
Which of the following most likely shows the number of pins attracted to the bottom of the ring magnet at positions A, B and C?

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

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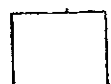
- 2 Jonathan placed a packet of tea into a mug without spilling it as shown in the diagram below.



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 ($^{\circ}\text{C}$)	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

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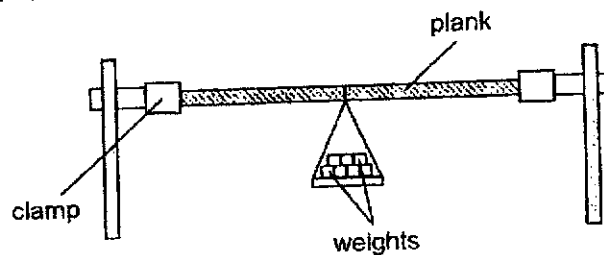
End of Section A



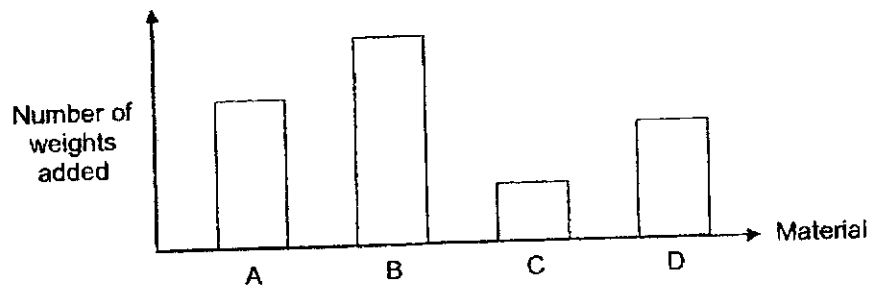
Section B (6 marks)

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.



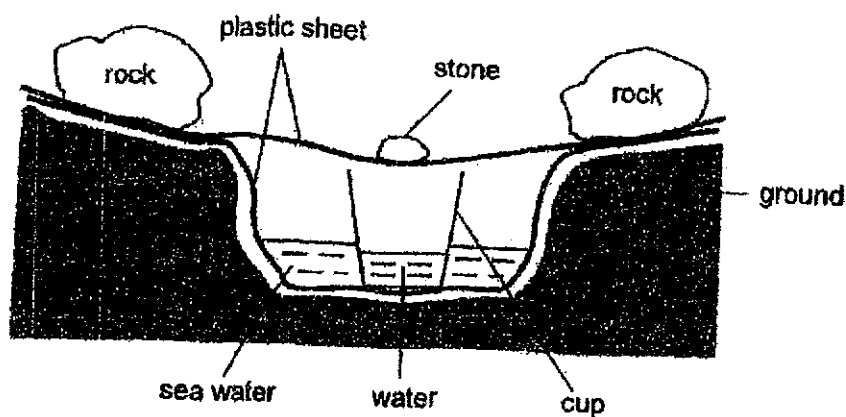
- a) Which property of the materials was James trying to investigate in his experiment? [1]

- 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. Give a reason for your answer. [1]



- 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



2024 P5 Science WA2: Correction Worksheet**PAPER 1**

Answer	Correction
Task 1 (a)(i) Q. It is flexible [$\frac{1}{2}$] & can be stretched without breaking. [$\frac{1}{2}$] (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 [$\frac{1}{2}$] 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(a)					
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(b)					
4(c) Material B. B needs greatest number of weights to break / is the strongest [$\frac{1}{2}$] and so, it can withstand / support heavy books without breaking. [$\frac{1}{2}$]						4(c)					
5(a) To allow water vapour to condense [$\frac{1}{2}$] into water (droplets) [$\frac{1}{2}$] OR The seawater will not seep / flow into the soil / sand / ground [1]						5(a)					
5(b) The <u>seawater</u> gained heat [$\frac{1}{2}$] and <u>evaporated</u> [$\frac{1}{2}$] and <u>lost heat</u> [$\frac{1}{2}$] to the cool plastic sheet and <u>condensed</u> [$\frac{1}{2}$] into water droplets which then fell into the cup.						5(b)					

