

PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)  
WEIGHTED ASSESSMENT 2 2025  
PRIMARY 4 SCIENCE

Name: \_\_\_\_\_ ( )

Total

/10

Class: Primary 4 \_\_\_\_\_

Date: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

For each task, please read the instructions carefully.

**Task 1**

**Materials:**

- Beam balance
- Shapes (square, triangle, circle)

Circle the correct answer.

[1]

(a) All the shapes are in ( *solid* / *liquid* / *gas* ) state.

(b) Number **Steps 2** and **3** to compare the mass of the shapes.

[1]

Steps 1, 4 and 5 are shown below.

| Number | Steps                                                                                          |
|--------|------------------------------------------------------------------------------------------------|
| 4      | Repeat steps 1 to 3 comparing two shapes at a time.                                            |
| 5      | Based on your observation, arrange the shapes from the least mass to the greatest mass in (c). |
|        | Check that the beam balance is level (not tilted) when both pans are empty.                    |
|        | Place the beam balance on the table.                                                           |
|        | Put one shape at the centre of each pan and observe the beam balance.                          |

(c) Arrange the shapes (square, triangle, circle) from the **least mass to the greatest mass**. [1]

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
(least mass)

(d) Based on your observation, what evidence suggests that the three shapes have different volumes? [1]

(e) Name another apparatus that can be used to measure the mass of the shapes. [1]

## Task 2

### Materials:

- A 250 cm<sup>3</sup> bottle containing 50 ml of water with two holes on its lid
- Beaker

(a) State the volume of air in the bottle.

[1]

\_\_\_\_\_ cm<sup>3</sup>

### Steps:

1. Leave both holes on the lid open and pour out some water into the beaker. Observe how the water flows.
2. Use your finger to cover one of the holes and pour out some water into the beaker through the other hole. Observe how the water flows.
3. Record your observations.

Circle the correct answer.

[1]

(b) When both holes are open, the water flows out

( *faster than* / *slower than* / *as fast as* ) when one of the holes is covered.

(c) Explain your observation in (b).

[1]

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(d) Without damaging the bottle or the lid, what is another way to make the water flow out of the bottle faster?

[1]

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(e) State a property of water that can be observed when you pour out all the water from the bottle into the beaker.

[1]

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