Nan Hua Primary School
Primary 4 Science
Term 2 Weighted Assessment 2025

Marks	
Section A:	/ 10
Section B:	/ 10
Total:	**/ 20**

Name: _____ ( )

Class: Primary 4S ____

Date: _____

Duration: 30 minutes

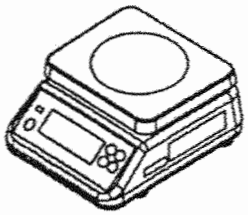
_____
Parent's Signature

Answer all questions

Section A: (5 x 2 marks = 10 marks)
For each question from 1 to 5, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets provided.

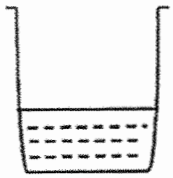
1 Ali wants to find the volume of a stone. He is given the items shown below.

(A)



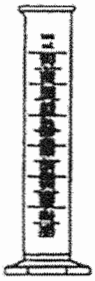
electronic balance

(B)



container of water

(C)



measuring cylinder

Which item(s) should Ali use to measure the volume of the stone?

(1) A only
(2) B only
(3) B and C only
(4) A, B and C

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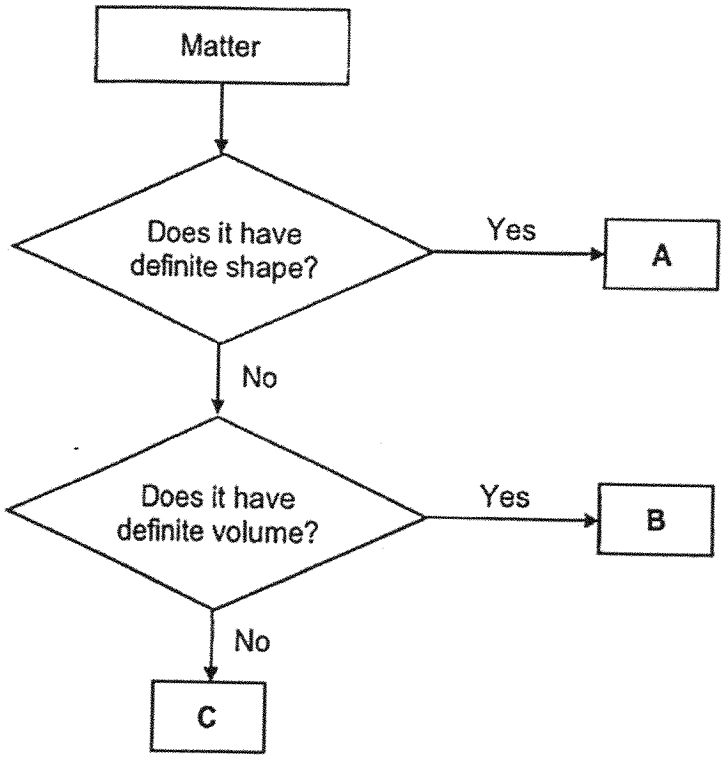
2 Which one of the following is **not** matter?

(1) ice
(2) oil
(3) light
(4) mushroom ( )

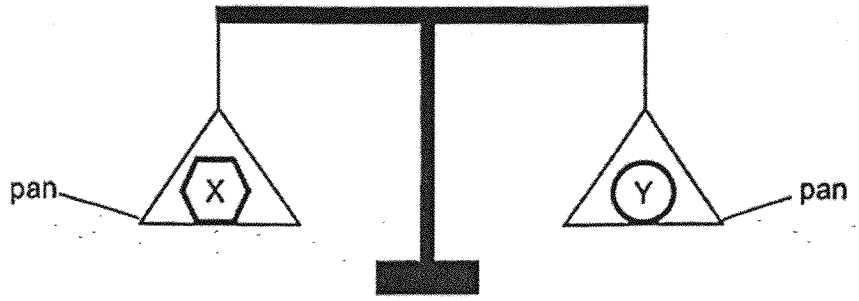
3 Study the flow chart.



Which of the following correctly represents A, B and C?

	A	B	C
(1)	air	milk	marble
(2)	milk	marble	air
(3)	marble	air	milk
(4)	marble	milk	air

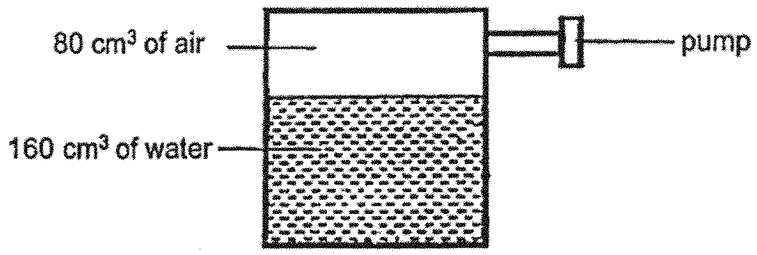
4 Object X and object Y were placed on a lever balance. The pans were balanced as shown.



The pans were balanced because objects X and Y have _____.

(1) equal mass
(2) equal volume
(3) definite shape
(4) definite volume ( )

5 The diagram below shows a sealed metal box containing 160 cm^3 of water and 80 cm^3 of air at first. Then 20 cm^3 of water and 20 cm^3 of air were pumped in.



How would the final volume and mass of water and air in the box change?

	Volume of water	Volume of air	Mass of water	Mass of air
(1)	decrease	remain the same	decrease	increase
(2)	increase	increase	increase	increase
(3)	increase	decrease	increase	decrease
(4)	increase	decrease	increase	increase

( )

(Go on to the next page)

Section B: Structured questions (10 marks)

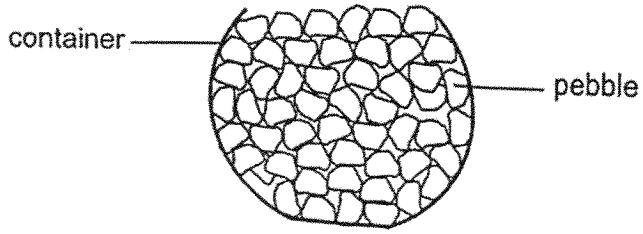
For questions 6 to 8, write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

6 **(a)** State what matter is. [1]

_____

_____

Susan filled a container to its brim with 150 cm^3 of pebbles as shown below.



(b) Identify the state(s) of matter found in the container. [1]

_____

(c) Tick (✓) the box that shows the most likely volume of the container. [1]

Volume of Container	Tick (✓) the correct volume
Less than 150 cm^3	
Equals to 150 cm^3	
More than 150 cm^3	

SCORE	3

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7 Sam put a piece of plasticine into a beaker of water. The water level of the beaker rose to 300 mℓ. He took the plasticine out of the beaker and cut it into four smaller pieces. The four smaller pieces were then put back into the beaker of water.

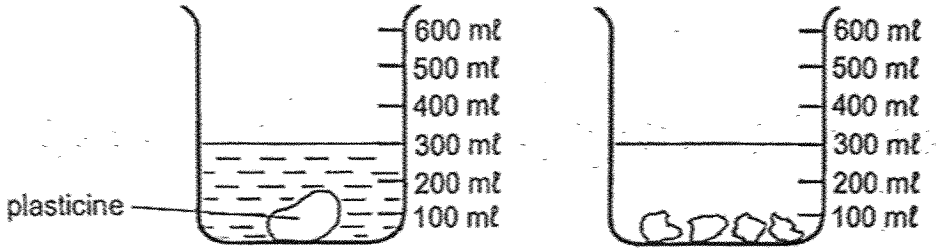
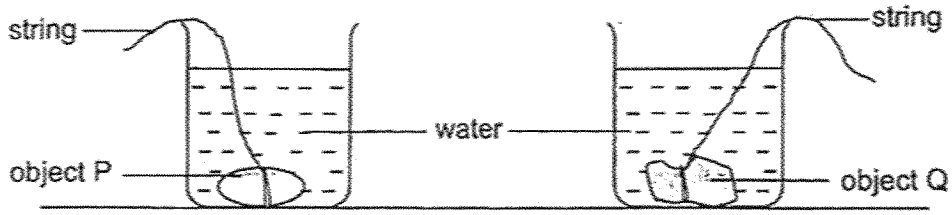


Diagram A Diagram B

(a) Draw a line in Diagram B to show the water level after the four smaller pieces of plasticine were put back into the beaker of water. [1]

Sam conducted another experiment. He put two objects, P and Q, of different sizes into two identical empty beakers. He then poured water into both beakers to the same level as shown below.

<u>At the start of experiment</u>



Beaker P Beaker Q

(b) Without using any other apparatus, what could Sam do to find out which object has a bigger volume? [1]

_____

_____

(c) Based on your answer in (b), what observation would Sam make if object P has a bigger volume? [1]

_____

_____

SCORE / 3

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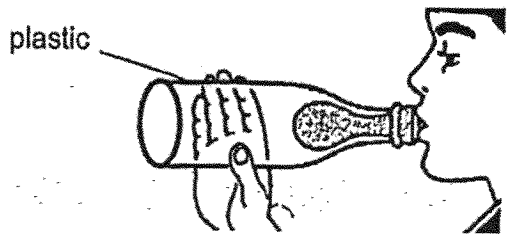
8 Ravi pushed a deflated balloon into a plastic bottle and folded the edge of the balloon over the opening of the plastic bottle.



(a) When he blew the balloon, he found it difficult, and he could only inflate the balloon a little. Explain why. [1]

(b) Ravi then made some holes at the side of the plastic bottle. He realised that it was easier to blow the deflated balloon. Explain why it was easier to blow the balloon. [2]

(c) Ravi was curious to find out if the size of the bottle affects the size of the inflated balloon.

Put a tick (✓) in the boxes below to show the variable(s) that Ravi must keep the same to conduct a fair test. [1]

Variable	Keep the same (✓)
Size of bottle	
Size of inflated balloon	
Size of deflated balloon	

End of Paper

SCORE	/ 4

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PRIMARY 4 SCIENCE
TERM 2 WEIGHTED ASSESSMENT 2025
MARK SCHEME

Section A

Qn	Answer
1	3
2	3
3	4
4	1
5	4

Section B

Qn	Correct/Acceptable Answers
6a	Matter is anything that **has mass** and **occupies space**.
6b	**solid** and **gas**
6b	**More than 150 cm^3**
7a	Draw a line at 300 mℓ.
7b	**Remove both objects** and **check which beaker has less water**
7c	The **water level in beaker P was lower**.
8a	There is **air in the bottle** and **air occupies space.**
8b	The air in bottle can **escape through the holes**. So balloon can inflate as it can **occupy the space previously occupied by the air** that escaped.
8c	

Variable	Keep the same (✓)
Size of bottle	
Size of inflated balloon	
Size of deflated balloon	✓