NANYANG PRIMARY SCHOOL
Term 2 Weighted Assessment
Science
Primary 4

15

Name: _____( ) Date: _____

Class: 4____ Parent's signature: _____

Dear Parent/Guardian,

Please sign the Weighted Assessment paper and have your child/ward return it the next day. Any query should be raised at the same time when returning the paper.

Section A: Multiple Choice Questions (10 marks)

For each question from 1 to 5, four options (1, 2, 3 and 4) are given. One of them is the correct answer. ***Indicate your choice in the brackets provided.***

1. Study the table below.

Light sources	Non-light sources
Sun	Book
Stars	Mirror
Moon	Fire

Which two examples have been placed in the wrong group?

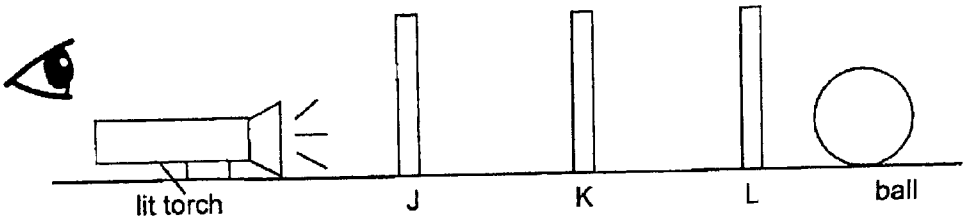
(1) Stars and fire
(2) Moon and fire
(3) Stars and mirror
(4) Moon and mirror

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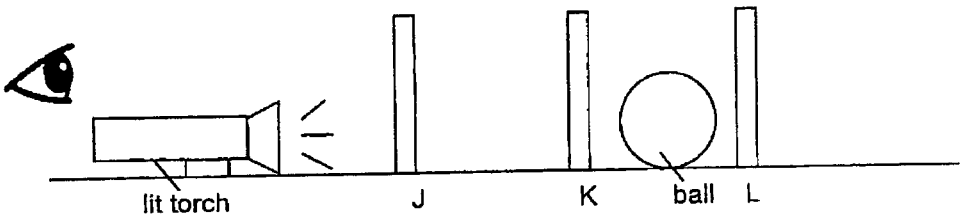
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2. Mary had three sheets of materials, J, K and L, made of different materials. She observed that when she placed the ball behind the three sheets, she could not see the ball.



However, when she placed the ball between sheets K and L, she could see the ball and its shadow on sheet L only.



Based on her observations above, which of the following is correct?

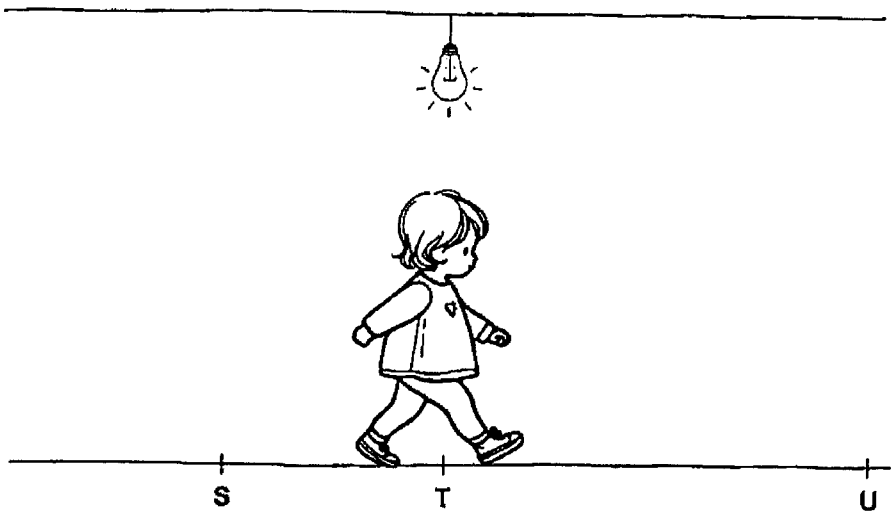
	Sheet J	Sheet K	Sheet L
(1)	Allow light to pass through	Allow light to pass through	Does not allow light to pass through
(2)	Allow light to pass through	Does not allow light to pass through	Allow light to pass through
(3)	Does not allow light to pass through	Does not allow light to pass through	Allow light to pass through
(4)	Does not allow light to pass through	Allow light to pass through	Does not allow light to pass through

( )

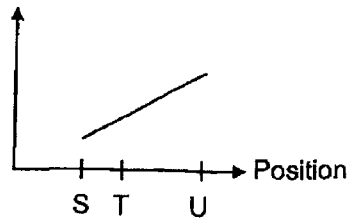
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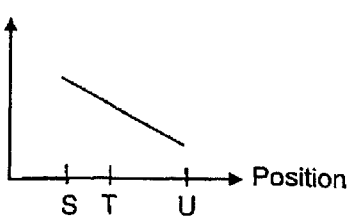
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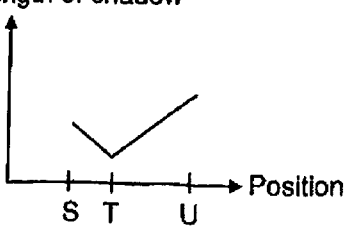
3. Kathy walked from position S to position T, and then walked to position U in a straight line under the light bulb.

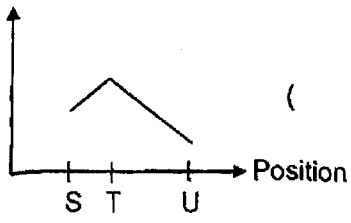


Which one of the following graphs shows how the length of her shadow changed as she walked from S to T then to U?

(1)


(2)


(3)


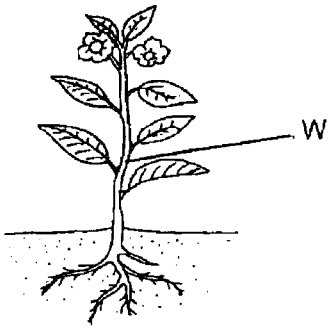
(4)


( )

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4. The diagram below shows a plant.



Which of the following statements represent the function of part W?

A Holds the plant upright
B Absorbs water and mineral salts
C Holds the plant firmly to the ground
D Transports food, water and mineral salts to different parts of the plant

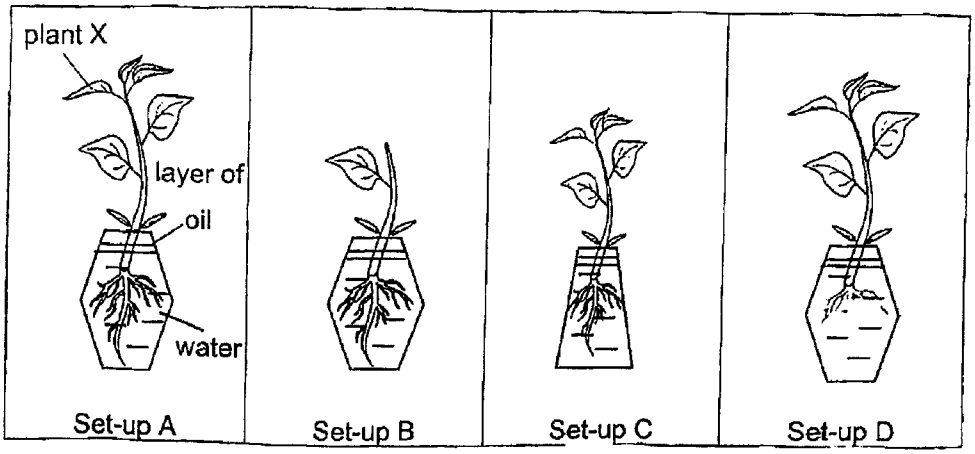
(1) A and B only
(2) A and D only
(3) B and C only
(4) C and D only

( )

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5. Sue wanted to find out if the amount of roots affect the amount of water a plant absorbs. She placed 4 of plant X in four different set-ups, as shown below.



Which two set-ups should she choose to find out if the amount of roots will affect the amount of water absorbed by the plant?

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

( )

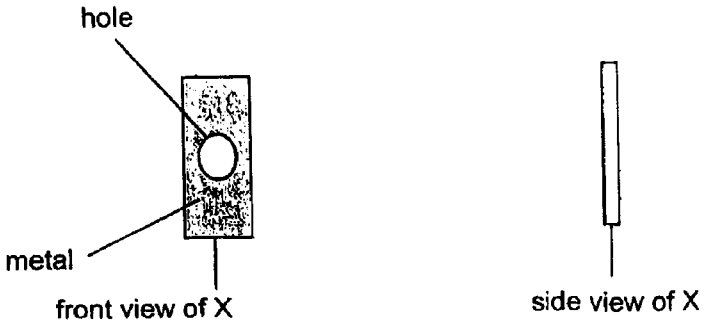
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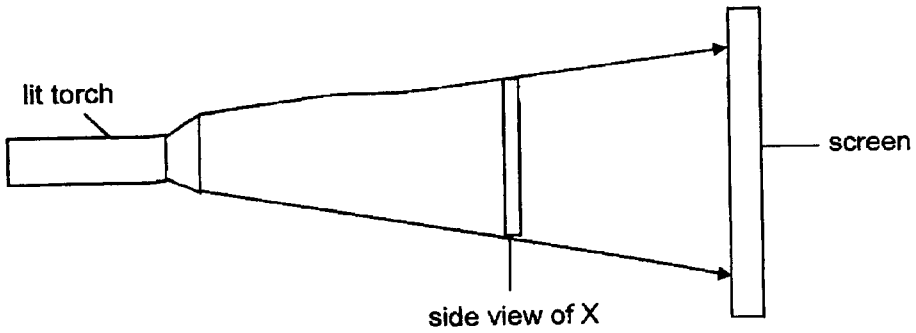
Section B: Open-Ended Questions (5 marks)

For questions 6 and 7, fill in your answers in the spaces provided.

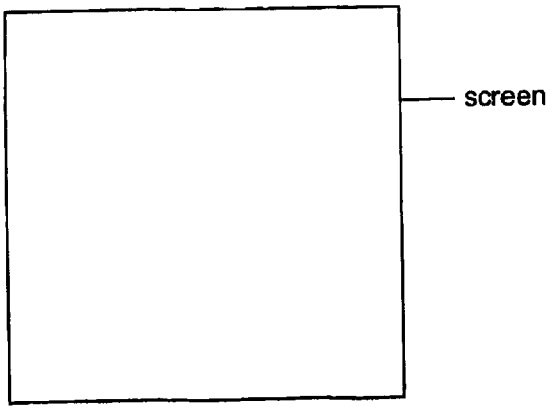
6. Sarah has an object, X, as shown below.



She placed X in between the torch and the screen as shown below.



(a) Using a pencil, draw and shade the shadow that will be formed on the screen when the torch is switched on. [1]



1

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(b) Based on the experiment above, state a property of light that allows the shadow of object X to be formed. [1]

_____

_____

(c) State one way in which the size of the shadow of object X formed on the screen can be smaller. [1]

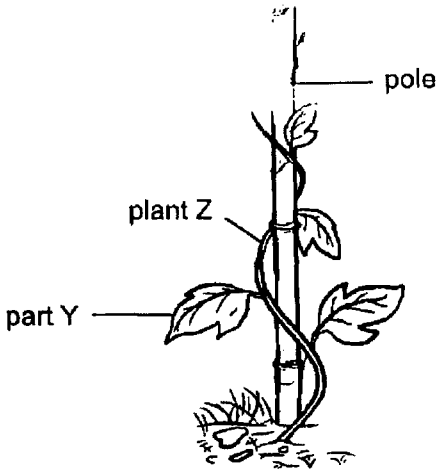
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7. James and Peter observed plant Z growing on a pole as shown below.



(a) State two functions of part Y. [1]

_____

_____

(b) How does growing upwards around the pole help plant Z to grow better? [1]

_____

_____

- End of Paper –

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P4 SCIENCE WA2 2025
Suggested Answer Key

Section A

1.	2	2.	1	3.	3	4.	2	5.	2

Section B

Qn No	Acceptable Answers
6a.	
6b.	Light travels in straight lines **OR** Light cannot pass through an opaque object/ object X. **OR** Light can be blocked by an opaque object/ object X.
6c.	(Changing the distance between the object and the source of light) • Place object X further away from the torch. **OR** (Changing the distance between the object and the screen) • Place the object X nearer to the screen.
7a.	Part Y makes food for the plant and takes in and gives out gases/ carry out gaseous exchange.
7b.	The leaves receive more sunlight to make more food.

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