Red Swastika School
Primary 4 Science 2025
Class Test 2

30

Name: _____ ( ) **Parent's Signature:** _____

Class: Pr. 4 _____ **Date:** _____

Total time for Section A and B: 40 minutes

Section A: Multiple-Choice Questions (9 x 2 = 18 marks)

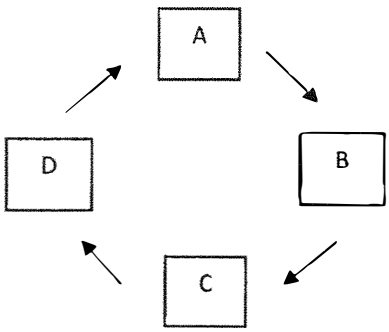
For Questions 1 to 9, choose the most suitable answer and shade its number in the OAS provided.

1. Study diagrams A, B, C and D. Each represents a stage in the life cycle of a butterfly.

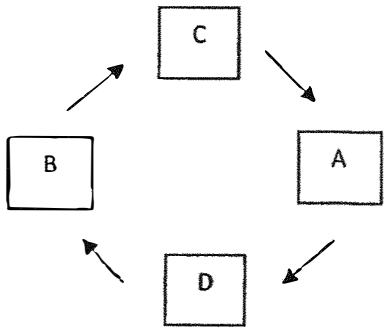
A B C D

Which of the following options shows the correct life cycle of a butterfly?

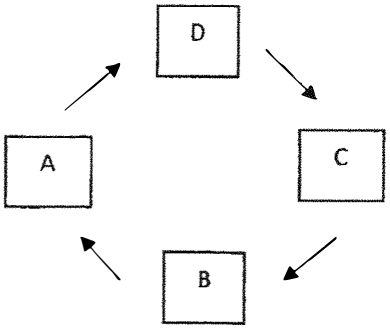
(1)



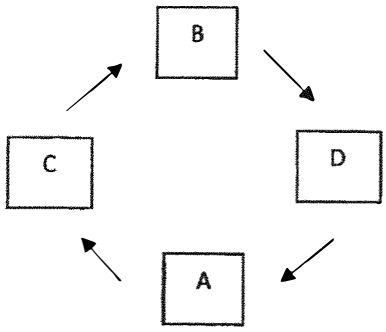
(2)



(3)



(4)



2

2. During a Science lesson, some students observed Animal Z.
The following observations were made about Animal Z.

Observation	Animal Z
Eggs are laid in water.	X
Has a pupa stage.	✓
The young looks like its adult.	X
The adult has wings.	✓

Key
✓ = Yes
X = No

Based on their observations above, what could Animal Z be?

A: Mosquito

B: Beetle

C: Cockroach

D: Bird

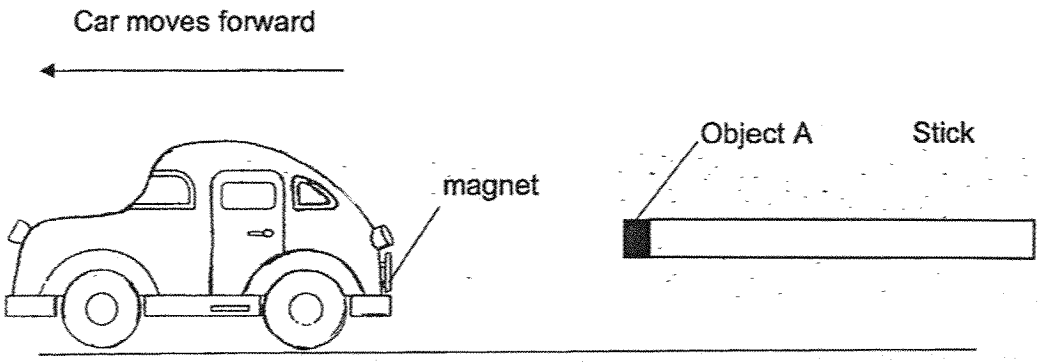
(1) B only
(2) A and B only
(3) B and C only
(4) A and D only

3. A magnet can be made from _____.

(1) iron and copper
(2) plastic and steel
(3) iron and steel
(4) any metal

4

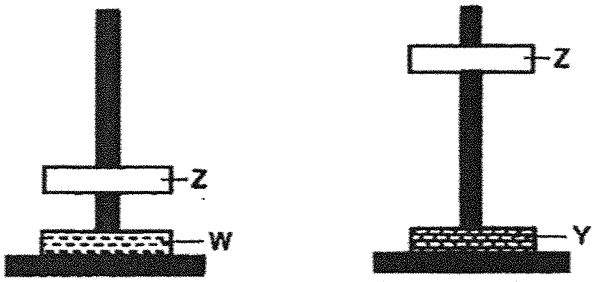
4. The diagram below shows a toy car with a magnet attached to its back. Object A is attached to a stick. When the stick is placed near the back of the car, the car moves forward and away from the object.



What could Object A be?

(1) Battery
(2) Magnet
(3) Steel button
(4) Eraser

5. The diagram below shows two setups. Observe the interaction between Z, W and Y.



Which of the following statements is correct?

(1) W, Y and Z must be made from iron.
(2) Y has a stronger magnetic strength than W.
(3) Z has a stronger magnetic strength than Y.
(4) W has a stronger magnetic strength than Z.

4

6. Which of the following is/are a source(s) of light?

A: Star

B: Sun

C: Moon

D: Unlit candle

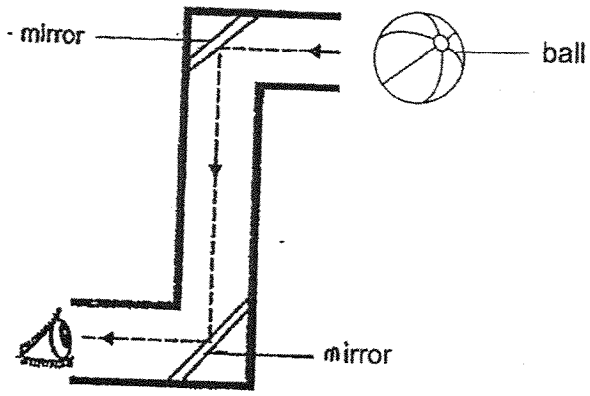
(1) A only

(2) A and B only

(3) A, B and C only

(4) B, C and D only

7. A periscope is used to see items at a greater height.



Which of the following explains why the user can see the ball?

A: Light travels in straight lines.

B: Light can be reflected.

C: Light travels from a higher place to a lower place.

D: Light can pass through transparent objects.

(1) A only

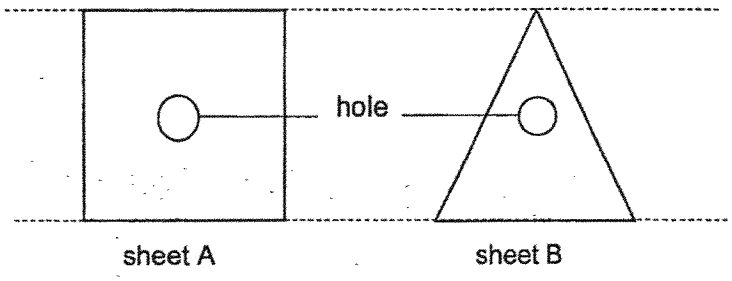
(2) B only

(3) A and B only

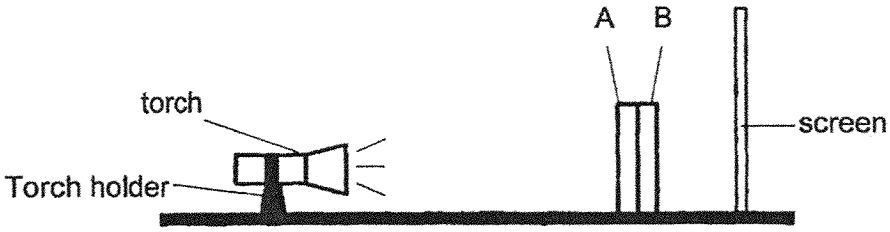
(4) B, C and D only

4

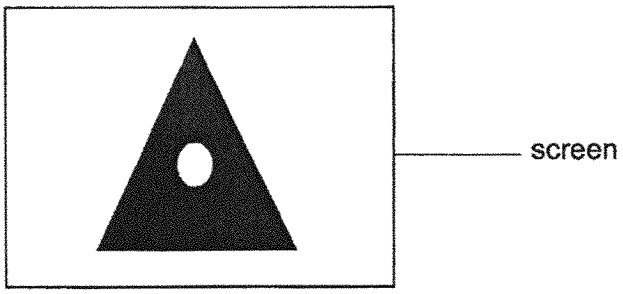
8. Holes are cut in sheets A and B as shown in the diagram below. Both sheets are of the same thickness and height.



Sheets A and B are then pasted together and a light is shone on them.



A shadow is cast on the screen as seen below.



Based on the shadow formed, which of the following correctly represents the materials used to make Sheets A and B?

	Sheet A	Sheet B
(1)	frosted glass	cardboard
(2)	clear plastic	clear glass
(3)	metal plate	wooden board
(4)	clear glass	rubber sheet

2

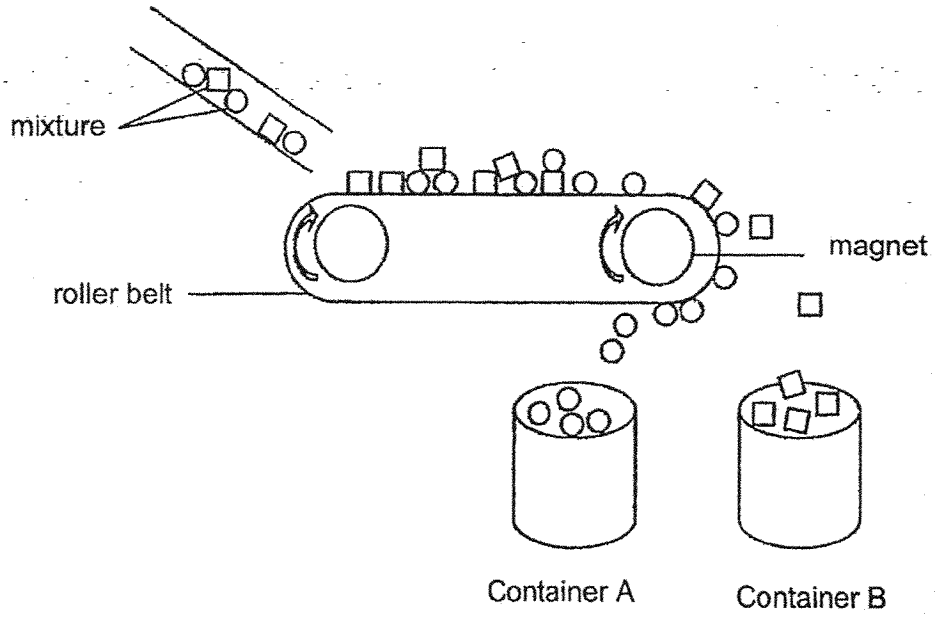
9. Which of the following is not a source of heat?

(1) A lit bulb
(2) A lighted match
(3) A lighted candle
(4) A ceramic cup

2

Section B: Open-ended Questions (3 x 4 = 12 marks)

10. The setup below can separate magnetic materials from non-magnetic materials. A mixture is poured down onto the roller belt. As the roller belt rolls to the right, the magnetic and non-magnetic materials are separated.



(a) Give an example of a non-magnetic material. (1m)

_____

(b) What will containers A and B contain?

Fill in the table with 'magnetic materials' or 'non-magnetic materials'. (1m)

Container	Material
Container A	
Container B	

(c) Can this setup separate iron nails and steel blocks? Explain your answer. (2m)

_____

_____

_____

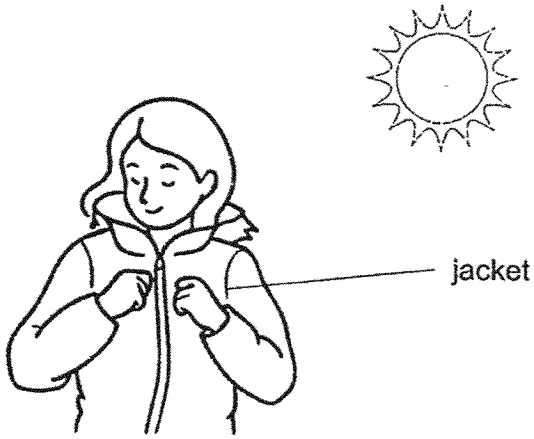
4

11. (a) What is the difference between heat and temperature? (2m)

_____

_____

(b) Anita was outdoors during winter. She felt very cold and decided to put on a jacket. She felt warmer after putting on a jacket.



Anita said that the jacket was a source of heat, thus she felt warm. Is she correct? Explain your answer. (2m)

_____

_____

_____

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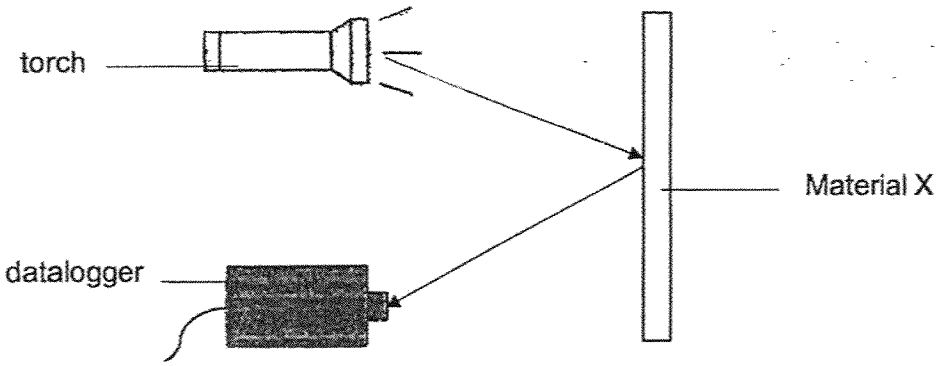
12. (a) How is a shadow formed? (1m)

_____

(b) Mr Tan wanted to find out which material, X, Y or Z, reflects the most light. He did a setup as shown below. He turned on the torch and measured the amount of light reflected by Material X. He repeated the experiment using Material Y and Z.



Material	Amount of light measured by datalogger (lux)
X	0
Y	100
Z	1800

Based on the results, which material reflects the most light? (1m)

_____

(c) Which material is the most suitable to make a safety vest used by workers at night? Explain your answer. (2m)

_____

_____

4

End of Paper
Please check your answer.

SCHOOL : RED SWASTIKA PRIMARY SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2025 WEIGHTED ASSESSMENT 2

Q1	2
Q2	1
Q3	3
Q4	2
Q5	2
Q6	2
Q7	3
Q8	4
Q9	4
Q10)	a) Aluminium b) A: magnetic materials B: non-magnetic materials c) No. Both the iron and steel are magnetic materials. They will both be attracted by the magnet and fall into container A.
Q11)	a) Heat is a form of energy but temperature of an object is a measurement of how hot or cold something is. b) The jacket does not give off its own heat, so it is not a source of heat.
Q12)	a) A shadow is formed when light is complete or partially blocked by object. b) Z. c) Z. Z reflects the most light, so the safety vest on the worker will be seen the most clearly at night.