Henry Park Primary School
Primary 4 Science
2019 Term Review 2

25

Duration of Paper : 40 min

Name : _____ ( )

Class : Primary 4 ___ Parent's Signature : _____

Section A : Multiple-Choice Questions (14 marks)

For each question from 1 to 7, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and write the correct answer (1, 2, 3 or 4) in the table provided.

Q1	Q2	Q3	Q4	Q5	Q6	Q7

1. The ring and the ball below are made of the same material.



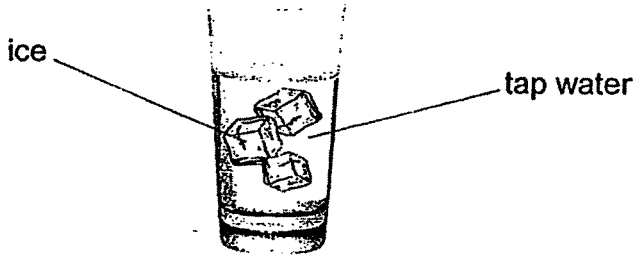
ball ring

At room temperature, the ball was not able to pass through the ring.

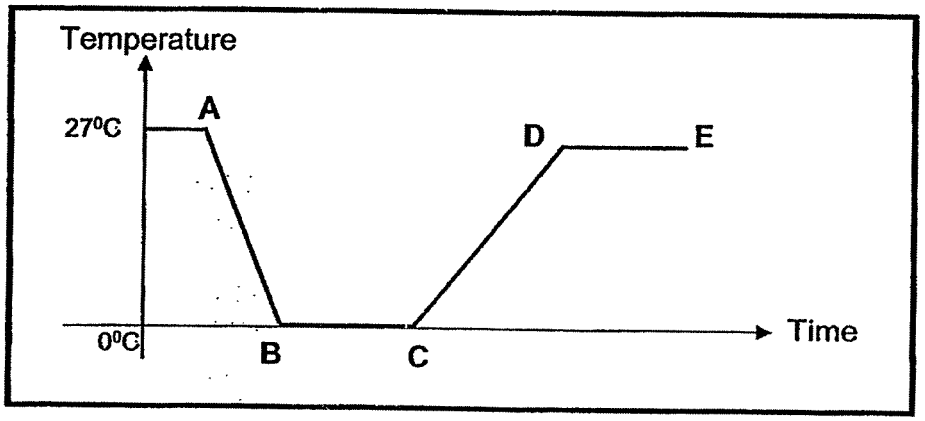
Which one of the following should Ben do so that the ball is able to pass through the ring?

(1) Put the ring in the freezer.
(2) Put the ball in boiling water.
(3) Put the ring in boiling water.
(4) Put both the ball and the ring in boiling water.

2. Anna wanted to drink a glass of cold water.
She filled a glass with tap water with a temperature of 24°C.
She then put some ice cubes into the glass of tap water as shown in the diagram below.



The line graph below shows how the temperature of the tap water in the glass changes.



Which one of the followings correctly explains the different parts of the graph?

	Part of the graph	Reason
(1)	AB	All ice have melted
(2)	BC	The tap water becomes hotter
(3)	CD	Most ice have melted
(4)	DE	The tap water started to boil

3. Claire placed a wooden cylinder on a wooden block as shown in Diagram 1 below.

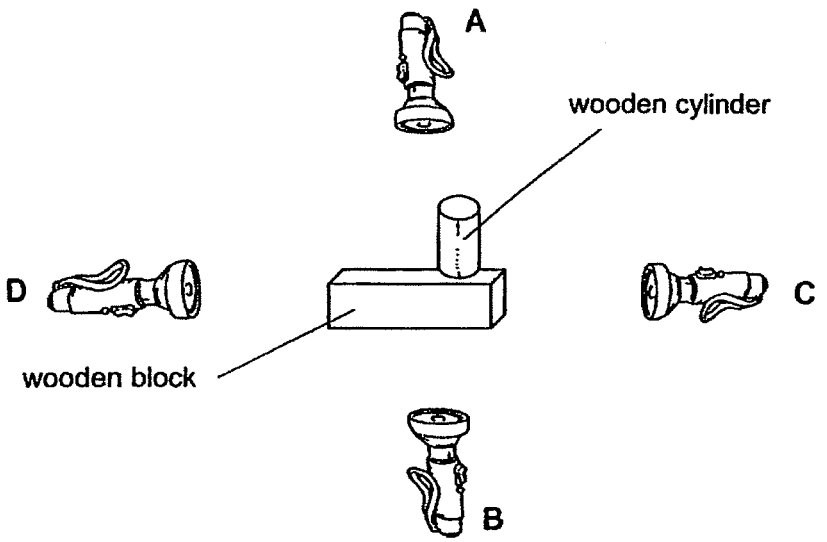


Diagram 1

The torchlight at position C was switched on and a shadow was cast.
Which one of the following diagrams below could be the shadow casted?

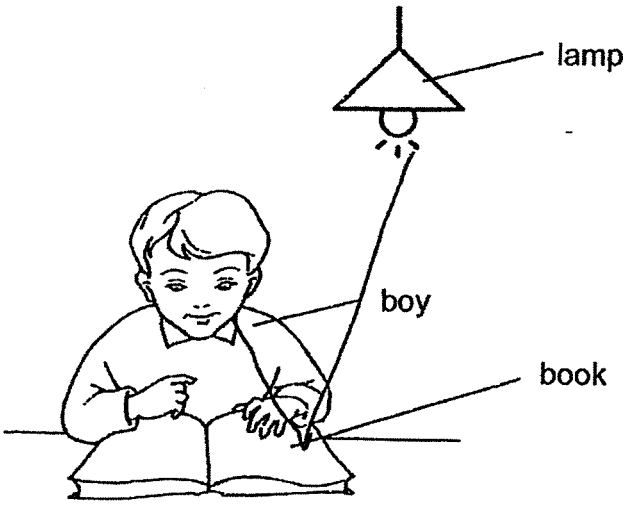
(1) 

(2) 

(3) 

(4) 

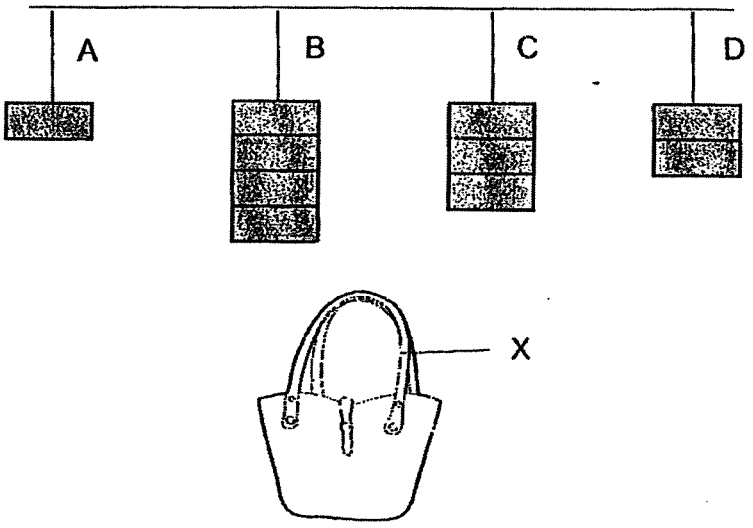
4. The diagram below shows a boy who is reading a book.



Which one of the following shows correctly the path of light that makes it possible for the boy to read the book?

(1) From lamp to boy to book
(2) From lamp to book to boy
(3) From boy to lamp to book
(4) From book to boy to lamp

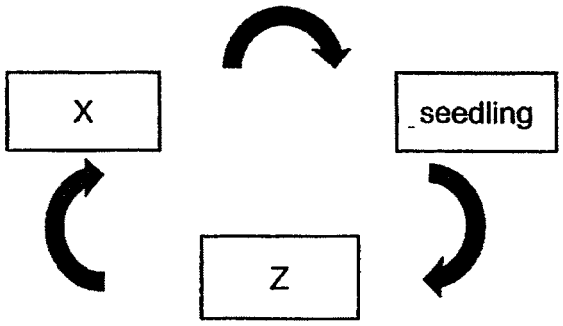
5. Strings A, B, C and D are made of different materials.
The diagram shows the greatest number of identical wooden blocks each string can support without breaking.



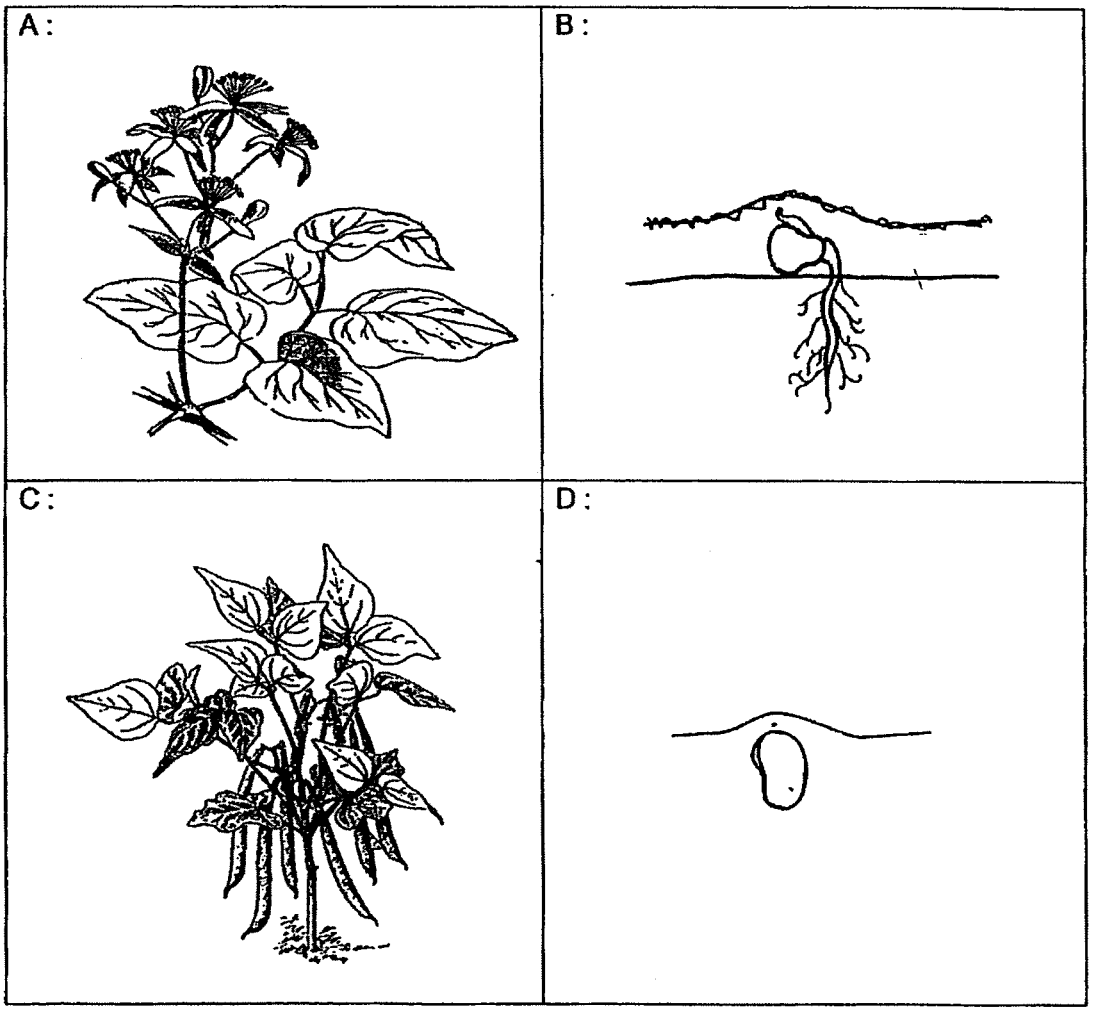
The diagram above shows a lady's handbag. Which string is most suitable to be used to make Part X?

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

6. This is a diagram of a life cycle of a plant.



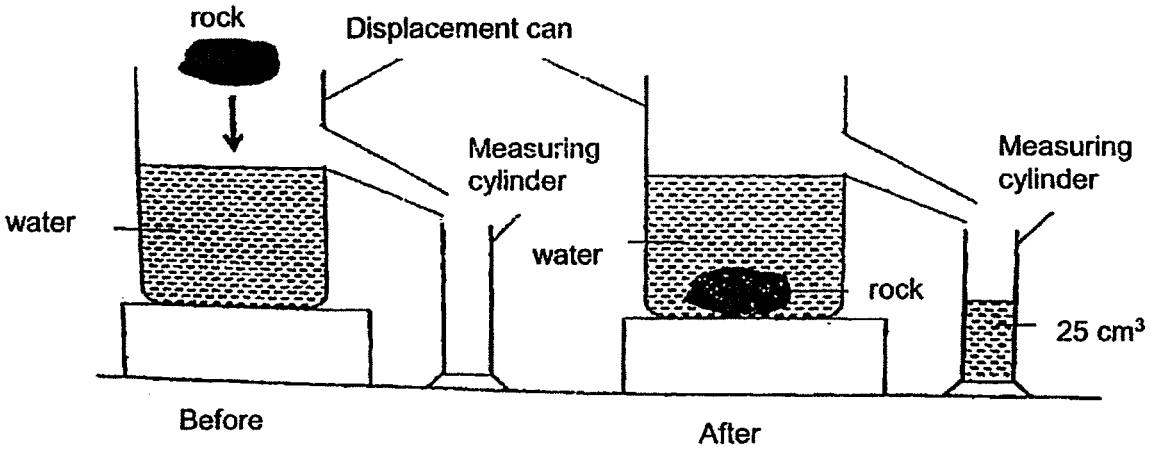
The diagrams below show the growth of plant.



Which one of the following correctly identify the stages X and Z in the life cycle of a plant?

	X	Z
(1)	B	A, D
(2)	B	C, D
(3)	D	A, C
(4)	D	B, C

7. The diagram below shows a setup that is used to find the volume of a piece of rock.



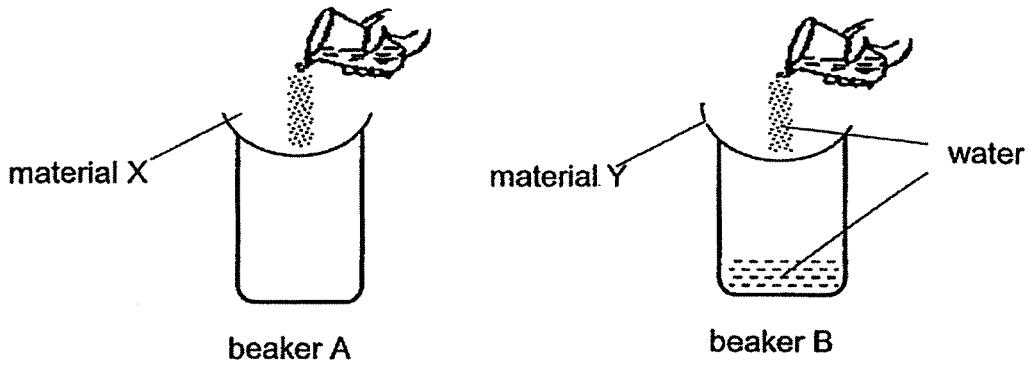
What does the experiment show you about the property of water?

(1) Water has a definite shape and occupies space.
(2) Water has no definite shape but occupies space.
(3) Water has a definite shape but do not occupy space.
(4) Water has no definite shape and do not occupy space.

Section B : Open-Ended Questions (11 marks)

For each question from 8 to 11, write your answers in the spaces given.

8. Mr Lim carried out the following experiment below.

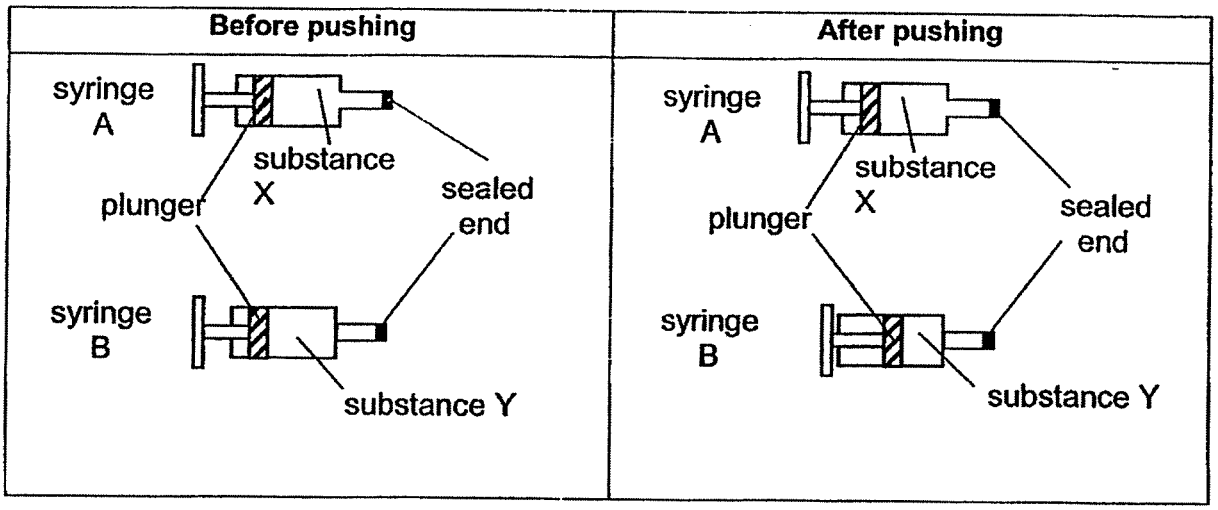


He poured some water over material X and material Y. After 5 minutes, he found beaker A remained dry but found some water in beaker B.

(a) What could Mr Lim conclude about the property of Material Y? *[1]*

(b) Based on the experiment above, Mr Lim chose material X to make a raincoat. Explain why. *[1]*

9. Two syringes, A and B, contain equal amount of substances X and Y respectively. One end of each syringe is sealed. The plunger in syringe A could not be pushed in while the plunger in syringe B could be pushed in slightly as shown in the diagram below.



(a) The plunger in syringe A could not able to be pushed in. What does this tell you about one property of substance X? *[1]*

_____

(b) Which state of matter is substance Y in? Explain why. *[1]*

_____

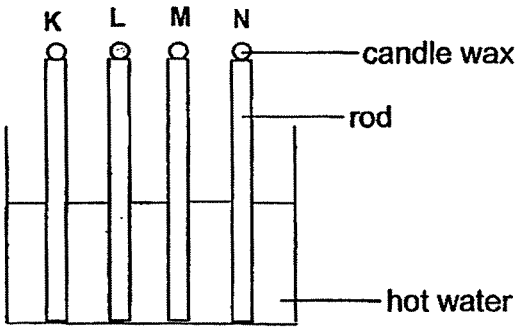
(c) Give an example of substance X and Y. *[1]*

Substance X : _____

Substance Y : _____

10. Benny wanted to find out which material can keep his food warm for as long as possible. He conducted an experiment by using 4 rods made of different materials, K, L, M and N.

He dripped candle wax on one end of the rod and immersed the other end in a container of hot water.



Benny then recorded the results in the table below.

Materials	Time taken for wax to melt completely
K	42 seconds
L	39 seconds
M	11 seconds
N	26 seconds

(a) Arrange the rods according to how well they can prevent the food from losing heat quickly, **starting** with the poorest conductor of heat. *[1]*

Material _____ , Material _____ , Material _____ , Material _____

(b) Which material will be the most suitable to keep food warm for the longest time? Explain your answer.

[2]

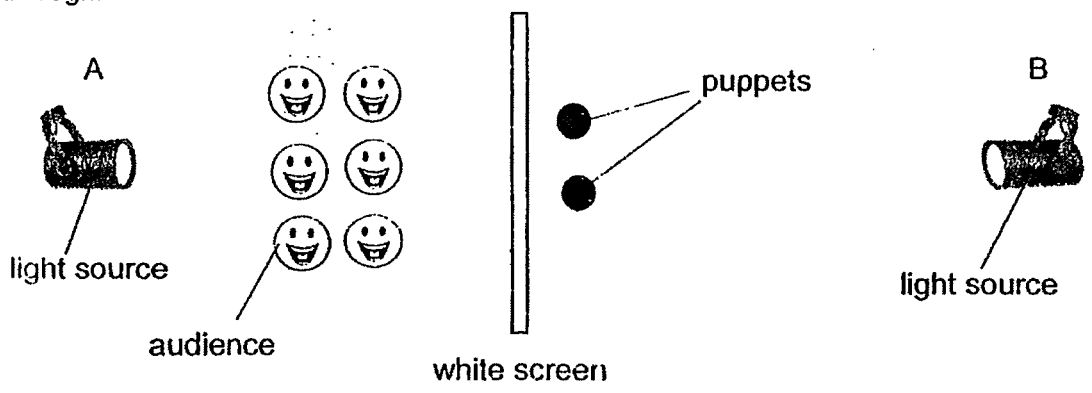
_____

_____

11. Class 4J has put up a performance on Shadow Puppets during assembly.



The diagram below shows how the shadow puppets were placed behind the white screen. Fill in the blanks below with either 'A' or 'B' to show where the light source should be in order for the shadows to be formed on the white screen which allow some light to pass through. *[1]*



(a) Position of light source: _____

(b) Which one of the properties describes the material used to make the puppets so that shadows could be formed on the white screen? *[1]*

Tick (✓) the correct property of the material below.

Allowed light to pass through	Does not allowed light to pass through	Allowed some light to pass through

(c) Without moving the screen and using the same puppets, what should the students do if they wanted the shadows formed on the screen to be bigger? *[1]*

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~ **End of Term Review** ~

CORRECTIONS SHEET FOR P4 SCIENCE 2019 TR2

Q1	3	**Q5**	2
Q2	3	**Q6**	3
Q3	1	**Q7**	2
Q4	2		

8a	Material Y is not waterproof	
b	Material X is waterproof so it will prevent the wearer's body from getting wet.	
9a	Substance X has a definite volume.	
b	Substance Y is in gaseous state and it has no definite volume.	
c	X – water, orange juice (any liquid/solid) Y – air, oxygen, carbon dioxide (any gas)	
10a	K, L, N, M	
10b	(C) Material K. **(E)Time taken for the wax** to melt is the longest. (R) It is the poorest conductor of heat so heat from the **food** is conducted to the **surroundings** the slowest.	
11a	B	
b	Does not allow light to pass through or allow some light to pass through.	
c	They should move the puppets closer or nearer to the light source.	