

**SINGAPORE CHINESE GIRLS' SCHOOL**  
**PRIMARY 5 SCIENCE**  
**Term 1 Weighted Assessment**  
**Topics: Reproduction in Plants & Heredity and Reproduction**

Term 1 WA

Name: \_\_\_\_\_ (      )

Date: 23 Feb

Class: Primary 5 SY

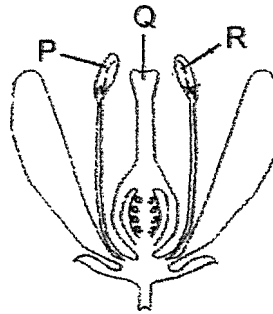
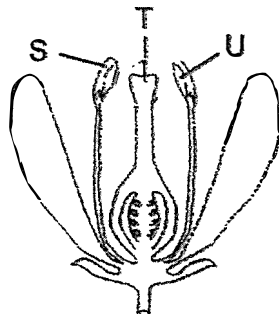
	Total Actual Marks	Total Possible Marks
<b>Section A</b>		<b>14</b>
<b>Section B</b>		<b>11</b>
<b>Total</b>		<b>25</b>

\_\_\_\_\_  
Parent's signature

**Section A (14 marks)**

For each question from 1 to 7, four options are given. One of them is the correct answer. Choose the correct answer and write its number in the Answer Sheet on Page 4.

1. The diagram below shows 2 flowers.



Pollination takes place when pollen grains are transferred from \_\_\_\_\_.

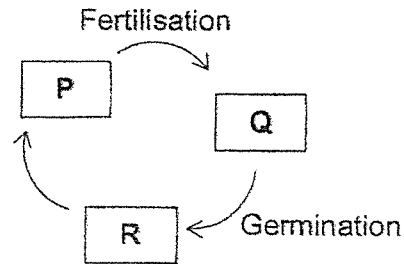
- 1) S to P  
2) R to T

- 3) Q to U  
4) T to Q

2. Which one of the following statements best describes why plants disperse their seeds?

- 1) To avoid overcrowding  
2) To ensure pollination take place  
3) To ensure fertilisation take place  
4) To pass on characteristics to their young

3. The diagram below shows the life cycle of a plant.



Which one of the following correctly represents P, Q and R?

	P	Q	R
1)	Seed	Adult plant	Young plant
2)	Seed	Young plant	Adult plant
3)	Adult plant	Seed	Young plant
4)	Young plant	Adult plant	Seed

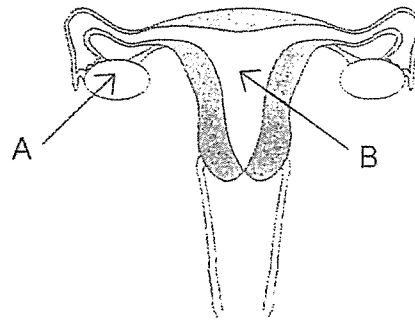
4. The table below shows the characteristics of 3 fruits, P,Q,and R.

Fruit	Characteristics
P	Is light and has hooks
Q	Carries many seeds in its pod
R	Is edible and has fibrous husk

Which of the following shows how P, Q and R are dispersed?

	P	Q	R
1)	By wind	By splitting	By Man / animals
2)	By water	By water	By Man / animals
3)	By wind	By Man / animals	By splitting
4)	By Man / animals	By splitting	By water

5. The diagram below shows one of the human reproductive systems.



Which of the following correctly describes parts A and B respectively?

	A	B
1)	Where the eggs are stored	Where the baby develops
2)	Where the baby develops	Where the eggs are stored
3)	Where the sperms are stored	Where the sperms are released
4)	Where the sperms are released	Where the sperms are stored

6. Which of the following statements about **sexual reproduction in both plants and animals are true?**

A: Pollination must take place before fertilisation.  
 B: Characteristics are passed down to their young.  
 C: During fertilisation, the male sex cell fuses with the female sex cell.

- |                 |                 |
|-----------------|-----------------|
| 1) A and B only | 3) B and C only |
| 2) A and C only | 4) A, B and C   |

7. Which of the following parts belong to the **male** reproductive system?

A: Penis	C: Ovary
B: Testes	D: Vagina

- |                 |                 |
|-----------------|-----------------|
| 1) A and B only | 3) B and D only |
| 2) A and C only | 4) C and D only |

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Term 1 WA

Name: \_\_\_\_\_ ( ) Date: \_\_\_\_\_  
 Class: Primary 5 SY

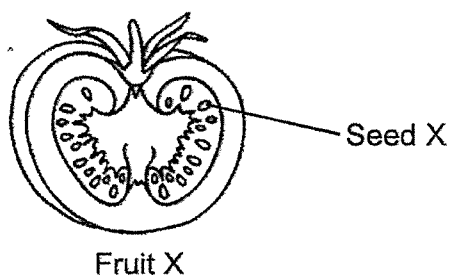
**Answer Sheet for Section A**

- |        |        |
|--------|--------|
| 1. ( ) | 5. ( ) |
| 2. ( ) | 6. ( ) |
| 3. ( ) | 7. ( ) |
| 4. ( ) |        |

**Section B (11 marks)**

For Questions 8 to 10, write your answers in the space provided.

8. Sumin cut open Fruit X as shown below.



- a) For the adult plant to produce the fruit above, which 2 processes must take place? (1m)

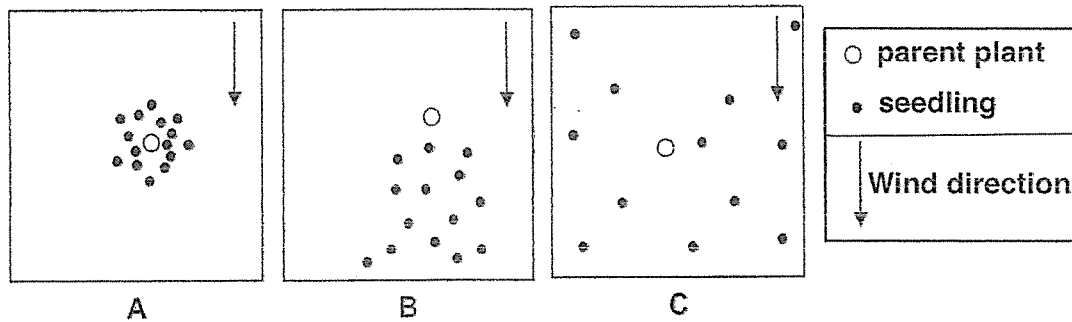
\_\_\_\_\_

- b) Fruit X and Seed X were developed from Flower X.

Fruit X was developed from the \_\_\_\_\_ of Flower X. (½ m)

Seed X was developed from the \_\_\_\_\_ of Flower X. (½ m)

9. Study the dispersal of seeds by Plants A, B and C IN 3 plots of land below.



- a) How were their seeds dispersed? (3m)

Plant A: \_\_\_\_\_

Plant B: \_\_\_\_\_

Plant C: \_\_\_\_\_

- b) The seedlings of Plant A are closer to each other as compared to the seedlings of Plant B and Plant C.

List the 4 factors seedlings of Plant A will have to compete more for. (2m)

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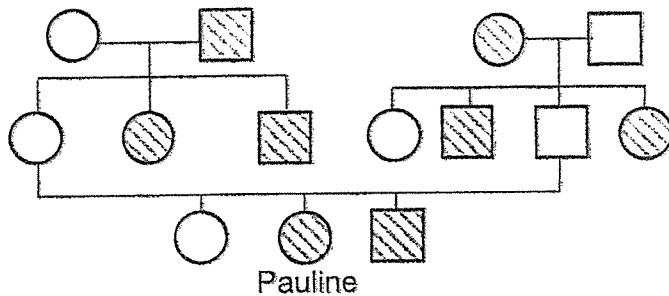


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10. Study the family tree below.



Key



Male with Characteristic P



Male without Characteristic P



Female with Characteristic P



Female without Characteristic P

Based on the family tree above, indicate if each of the statements is true, false or not possible to tell putting a tick (✓) in the correct column. (3m)

	True	False	Not possible to tell
a) Pauline inherited Characteristic P from her aunt.			
b) If both parents have Characteristic P, their children will definitely have characteristic P.			
c) If both parents do not have Characteristic P, their children will definitely not have characteristic P.			

d) Using the information given in the family tree, explain your answer for (c). (1m)

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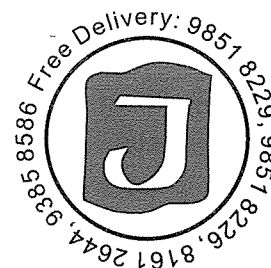


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## ANSWER KEY

YEAR : 2021  
 LEVEL : PRIMARY 5  
 SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL  
 SUBJECT : SCIENCE  
 TERM : TERM 1 WEIGHTED ASSESSMENT



## SECTION A

Q1	2	Q2	1	Q3	3	Q4	4	Q5	1
Q6	3	Q7	1						

## SECTION B

Q8	a)	Pollination and Fertilisation		
	b)	ovary		
		ovule		
Q9	a)	Plant A: Splitting		
		Plant B: Wind		
		Plant C: Animals		
	b)	Water		
		Space		
Sunlight				
Mineral Salts				
Q10	a)	False✓		
	b)	Not possible to tell✓		
	c)	False✓		
	d)	Both Pauline's parents do not have characteristic P but P <sup>1</sup> and her brother have characteristic P.		

1  
END





WA2

Singapore Chinese Girls' School  
Primary 5 Science  
Weighted Assessment 2  
Topics: Water and Changes of States

<b>A</b>	
<b>B</b>	
<b>Total</b>	

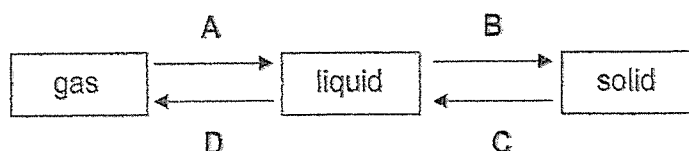
Name: \_\_\_\_\_ ( ) Date: \_\_\_\_\_

Class: 5SY \_\_\_\_

**SECTION A [14 marks]**

Choose the correct answer and write its number in the Answer Sheet on Page 5.

1.



A substance goes through the 4 changes of states, A, B, C and D. In which of the 4 processes is there heat gain?

1) A and D only

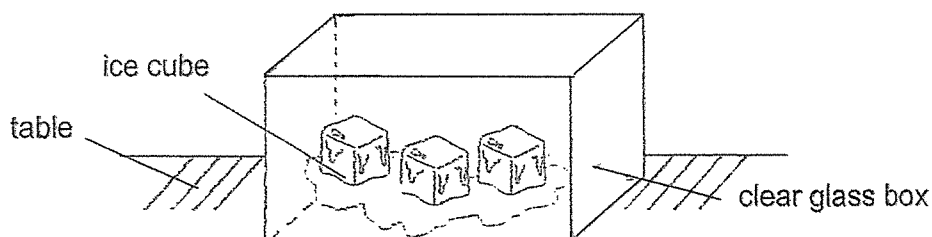
3) A and B only

2) B and C only

4) C and D only

2.

Some ice cubes were placed in a clear glass box as shown in the diagram below. The ice cubes started to melt after a while.



Based on the set-up above, which one of the following statements is correct?

(1) The table gained heat from the ice cubes.

(2) The ice cubes lost heat to the clear glass box.

(3) The ice cubes gained heat from the clear glass box.

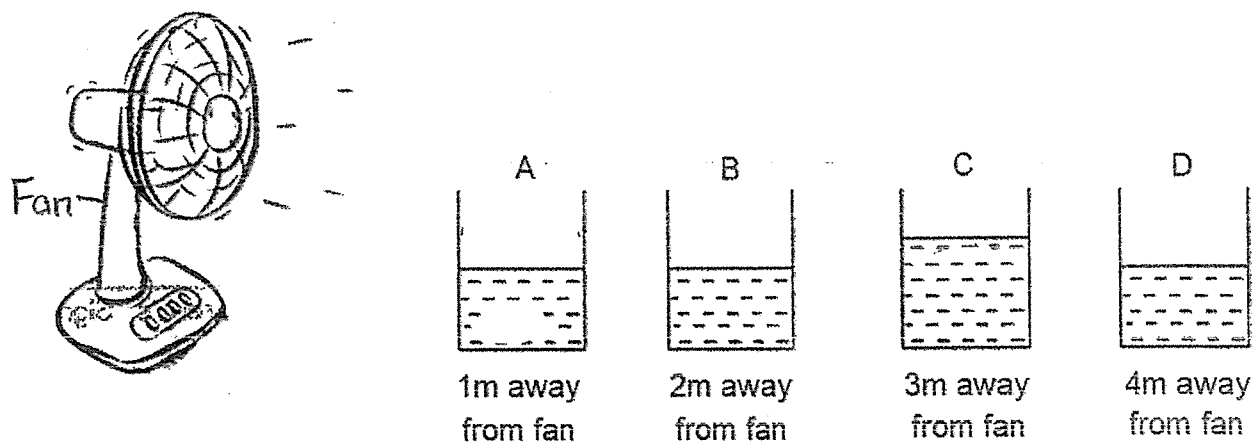
(4) The clear glass box gained heat from the ice cubes.

3.

In which of the following situations will condensation take place?

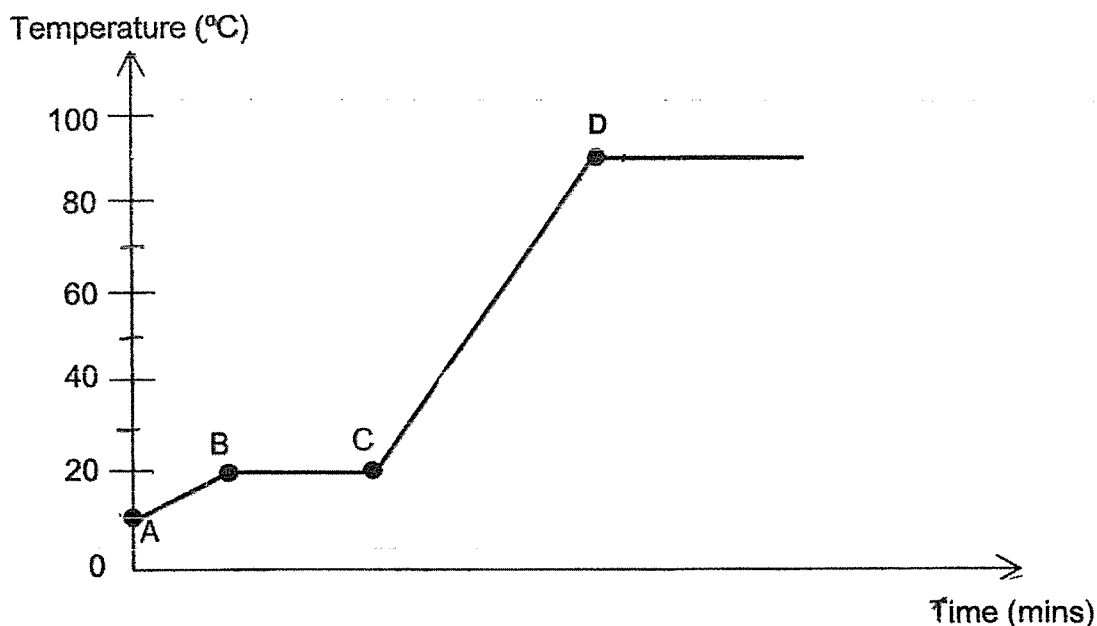
	Temperature of	
	Surface (°C)	Water Vapour (°C)
(1)	0	0
(2)	40	0
(3)	0	40
(4)	40	40

4. Study the diagram below.



Which container will have the least water left after 5 hours?

- (1) A  
(2) B  
(3) C  
(4) D
5. Some Substance X was in its solid state and was heated over a flame continuously. The changes in the temperature of Substance X was recorded in the graph below.



At which point did substance X start to boil ?

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

6.

Object K

Substance A

Substance B



Substance	Melting point
A	110 °C
B	60 °C

Object K is made of 2 solid substances A and B. To what temperature should Object K be heated up to allow A and B to be separated by making only one of them a liquid?

- 1) 55 °C**
- 2) 70 °C**
- 3) 110 °C**
- 4) 115 °C**

7. The table below shows the states of 4 substances E, F, G and H at different temperatures.

Substance	State of substances at		
	25 °C	50 °C	75 °C
E	solid	solid	solid
F	liquid	liquid	gas
G	solid	liquid	liquid
H	liquid	gas	gas

Based on the table above, which substance has the **lowest** boiling point?

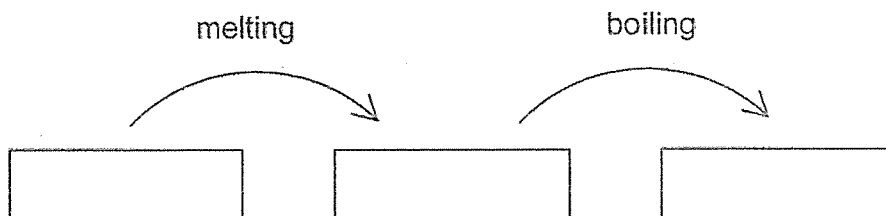
- (1) E                                  (3) G  
(2) F                                  (4) H

### Answer Sheet for Section A [14 marks]

1. ( )
2. ( )
3. ( )
4. ( )
5. ( )
6. ( )
7. ( )

**SECTION B [16 marks]**

8. Fill in the boxes with the correct states of matter. (3m)



9. Olivia wants to conduct an experiment.  
The table below shows 4 possible set-ups J, K, L and M that she can use.

	J	K	L	M
Volume of water (ml)	200	200	200	200
Exposed surface area of water (cm <sup>2</sup> )	100	100	200	200
Temperature of room (°C)	28	20	28	28
Temperature of water (°C)	40	60	40	60

- ai) Which 2 set-ups should she use to find out how the temperature of water affects the rate of evaporation? (1m)

Set-up \_\_\_\_\_ and set-up \_\_\_\_\_

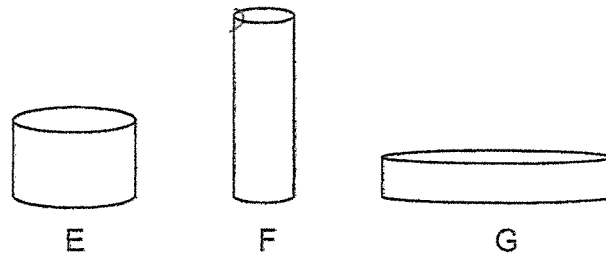
- aii) Which 2 set-ups should she use to find out if the exposed surface area of water affects the rate of evaporation? (1m)

Set-up \_\_\_\_\_ and set-up \_\_\_\_\_

- b) State one pair of 2 set-ups which cannot be compared in a fair test. (1m)

\_\_\_\_\_

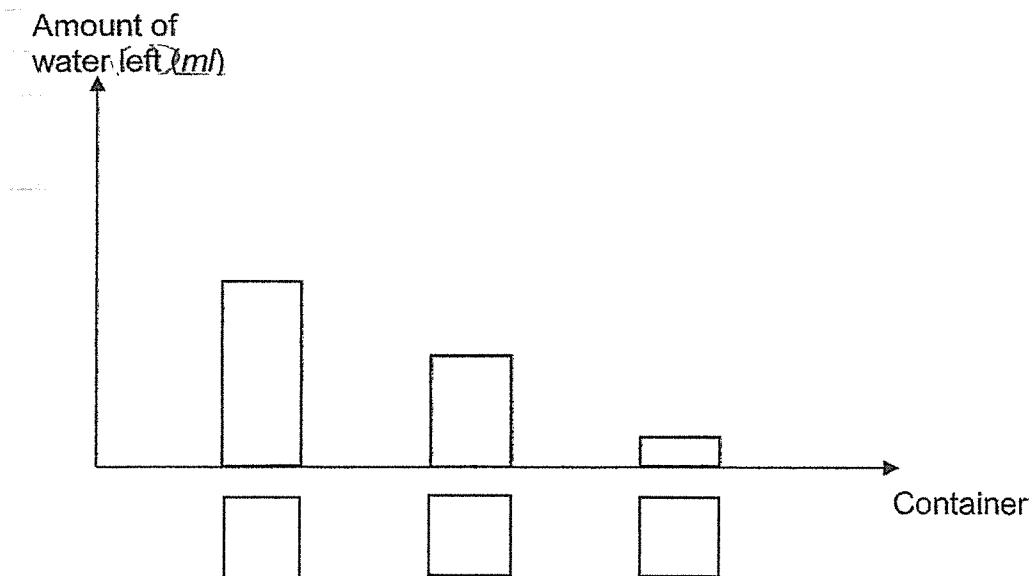
10. An equal amount of water was poured into containers E, F and G as shown below. They are then placed in an open field for 3 hours.



- a) In the table below, tick (✓) the changed variable in this experiment. (1m)

Variable	
Exposed surface area of container	
Exposed surface area of water	
Temperature of water	
Amount of sunlight	

- b) Fill in the boxes below to show the amount of water left in Containers E, F and G at the end of the experiment. (3m)



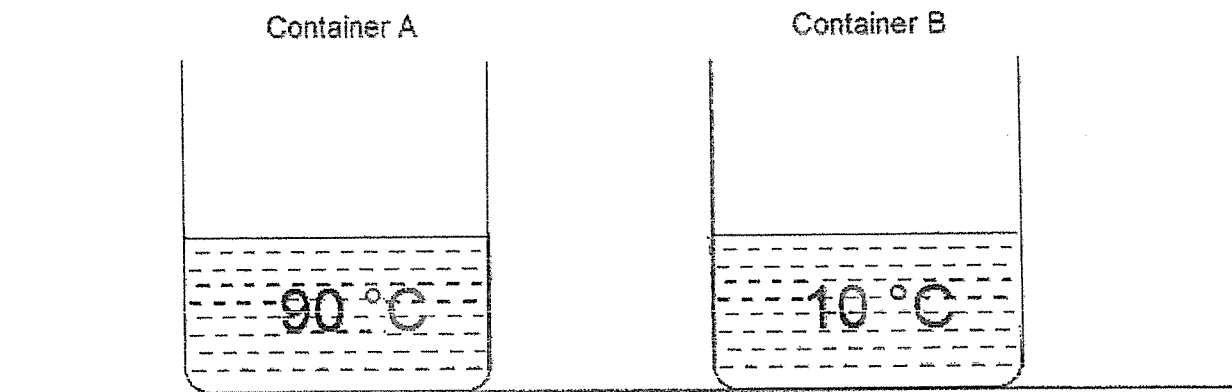
- c) Based on the results of the above experiment, what can you conclude? (1m)

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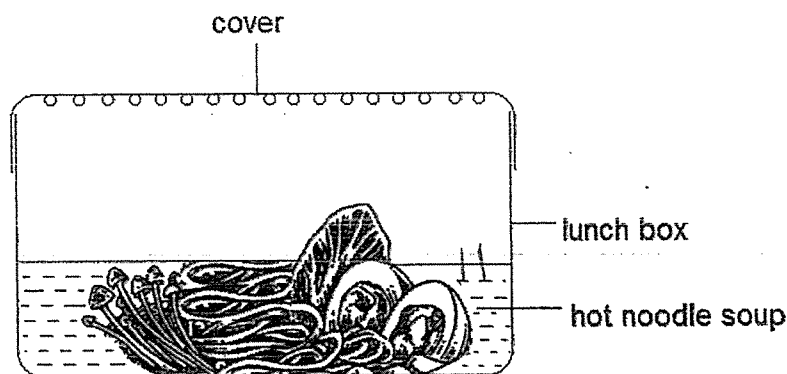
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11. Both containers A and B are placed in the Science room. Hot water at  $90^{\circ}\text{C}$  is poured into container A and cold water at  $10^{\circ}\text{C}$  is poured into container B.



- a) In the diagram above, draw the water droplets which appear 5 minutes later. (2m)
- b) What can you add to the water in container B to make the water droplets appear faster? (1m)

12. Tim bought hot noodle soup in a lunch box as shown in the diagram below. He found water droplets on the underside of the cover of the lunch box later.



Explain how water droplets are found on the underside of the lunchbox cover. (2m)

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End of paper

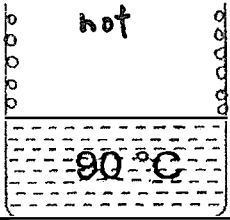
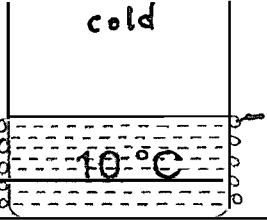
## ANSWER KEY

YEAR : 2021  
 LEVEL : PRIMARY 5  
 SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL  
 SUBJECT : SCIENCE  
 TERM : WEIGHTED ASSESSMENT 2

### SECTION A

Q1	4	Q2	3	Q3	3	Q4	1	Q5	4
Q6	2	Q7	4						

### SECTION B

Q8	solid→ liquid→ gas		
Q9	a)	ai)	Set-up L and set-up M
		aii)	Set-up J and set-up L
	b)	Set-up K and Set-up L	
Q10	a)	Exposed surface area of water ✓	
	b)	F, E, G	
	c)	The larger the exposed surface area of water, the greater the rate of evaporation.	
Q11	a)	<div><div><p>Container A</p><p>hot</p></div><div><p>Container B</p><p>cold</p></div></div>	
	b)	You can add ice cubes	
Q12	The water vapour in the lunchbox gained heat from the hot soup and rose, came into contact with the lunchbox cover lost heat and condensed, forming water droplets.		

1

END