

 **Primary 6 Science (Prelim) - Red Swastika (Y0)** [Add Questions](#)[Assign](#)[Settings](#)[Review](#)[Duplicate](#)[Print](#)[Delete](#)[Assign Test](#)**Test Introduction**[+ Add Introduction](#)**61 Questions** (35 Points)Question Bank: 12,655 Questions 

Test Questions

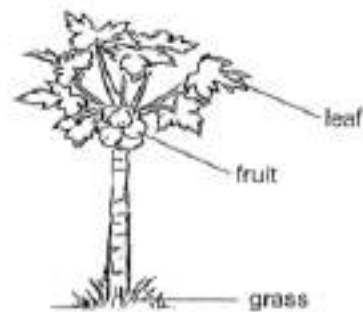
0 Test Assignments

**Question 1**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows a tree.



Which of the following statements about the tree is/are correct?

- A: It makes its own food.
- B: It is a flowering plant.
- C: It has a strong stem.

- A. B only
- B. A and C only
- C. B and C only
- D. A, B and C

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A

QID#: 29,457,485

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[Remove From Test](#)**Question 2**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

What is the similarity between mammals and reptiles?

- A. They have legs
- B. They live only on land
- ✓ C. They obtain food from other living things
- D. They have the same type of body covering

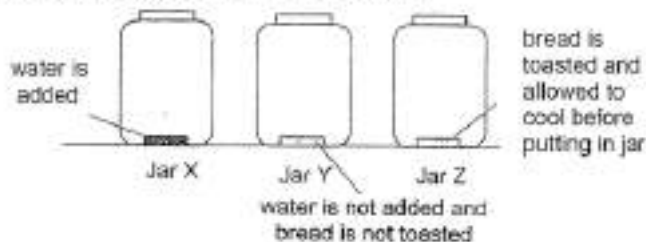
**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,489

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[Remove From Test](#)**Question 3**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Three identical slices of bread were put into three identical glass jars, X, Y and Z. The jars were placed in the Science room.



Which of the following shows the most likely observation after five days?

	Bread is not mouldy	Bread is slightly mouldy	Bread is very mouldy
(1)	Z	Y	X
(2)	Z	X	Y
(3)	Y	Z	X
(4)	Y	X	Z

- ✓ A. 1
- B. 2
- C. 3
- D. 4

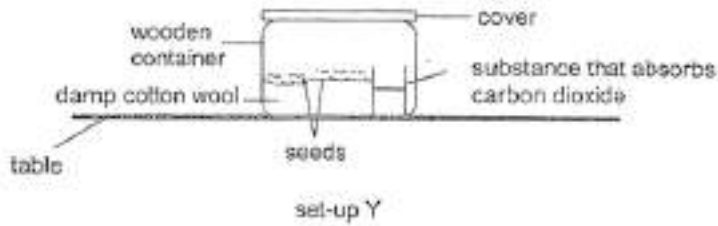
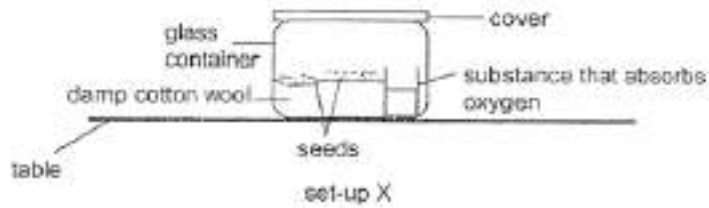
**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,493

### Question 4

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Lynn created the set-ups shown below and left them in the classroom.



In which set-up(s) will the seeds germinate?

	set-up X	set-up Y
(1)	✓	✓
(2)	X	✓
(3)	✓	X
(4)	X	X

- A. 1
- ✓ B. 2
- C. 3
- D. 4

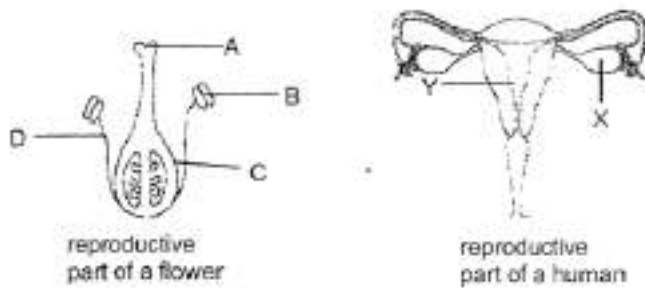
**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,496

### Question 5

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagrams below show the reproductive parts of a flower and a human.



Which parts of the systems shown above have similar function?

- A. A and X only
- B. B and Y only
- ✓ C. C and X only
- D. D and Y only

Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,501

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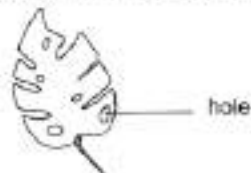
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## Question 6

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Mr Tan has a farm growing both fruit trees and vegetables. He noticed that the leaves of his vegetables were damaged with holes by the young of insect K.



The adults of insect K only collect nectar from the flowers of the fruit trees in the farm and help to pollinate the flowers.

Mr Tan decided to spray pesticide on the leaves of his vegetables so that they will not be damaged.

Which of the following will likely be the result of the use of pesticide after some time?

- A: Less fruits will be collected.
  - B: More fruits will be collected.
  - C: Less vegetables will be collected.
  - D: More vegetables will be collected.
- A. A only
  - B. D only
  - ✓ C. A and D only
  - D. B and C only

Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
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 QID#: 29,457,508

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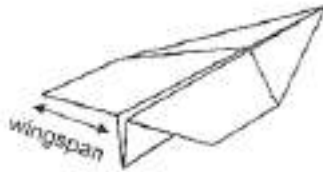
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## Question 7

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Alex made two paper airplanes with different wingspan.



He released each airplane from the same height and location and recorded the results as shown in the table.

Length of wingspan	4 cm	8 cm
Time taken for the airplane to reach the ground	8 s	12 s
Distance travelled by the airplane	32 cm	55 cm



Alex found fruits A and B in a garden. Based on the above experiment, which young plant of the fruits is likely not to experience overcrowding?

	Young plant of fruit	Reason
(1)	A	A has a longer wingspan and will travel a further distance away.
(2)	A	A has a longer wingspan and will take a shorter time to reach the ground.
(3)	B	B has a shorter wingspan and will travel a shorter distance away.
(4)	B	B has a shorter wingspan and will take a longer time to reach the ground.

- ✓ A. 1  
 B. 2  
 C. 3  
 D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,513

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## Question 8

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The table below shows information on organisms M and N.

Characteristic	organism M	organism N
Needs air, food and water to survive	✓	✓
Has a cell wall	✓	✓
Reproduces by spores		✓

Which of the following correctly represents organisms M and N?

	Organism M	Organism N
(1)	non-flowering plant	non-flowering plant
(2)	flowering plant	flowering plant
(3)	flowering plant	non-flowering plant
(4)	non-flowering plant	flowering plant

- A. 1  
 B. 2  
 ✓ C. 3  
 D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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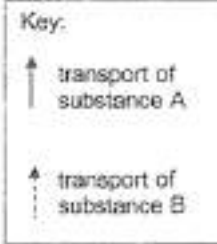
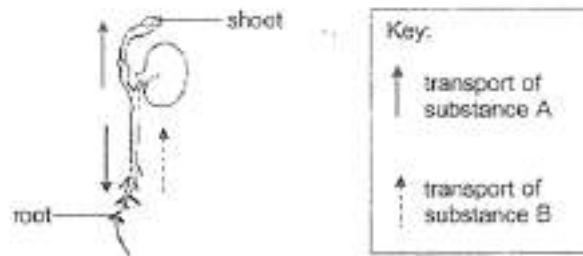
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## Question 9

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows a seedling. The arrows show the transportation of substance A and B inside the seedling.



Based on the diagram, which of the following is correct?

	substance A	substance B
(1)	water	water
(2)	food	food
(3)	food	water
(4)	water	food

- A. 1  
 B. 2  
 ✓ C. 3  
 D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
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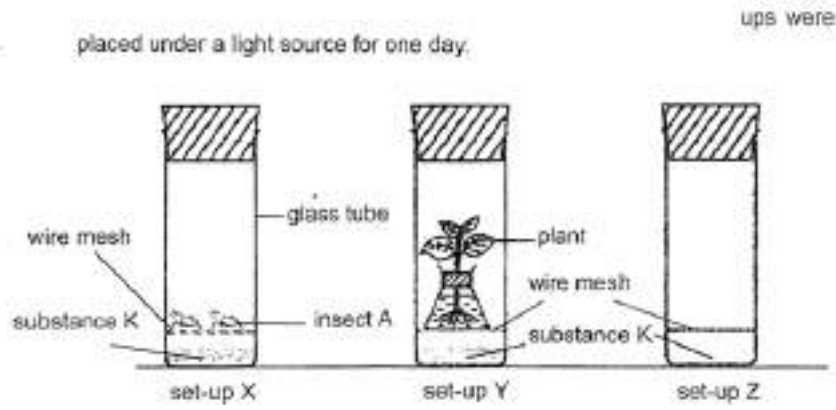
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## Question 10

Primary 6 Science » Primary 6 Science (Prelim)

1 pt



Substance K changes colour when there is a change in the amount of carbon dioxide as shown in the table below.

amount of carbon dioxide	colour
increase	yellow
remain the same	red
decrease	purple

Based on the above set-ups, which of the following is correct at the end of one day?

	set-up X	set-up Y	set-up Z
(1)	yellow	red	purple
(2)	purple	purple	red
(3)	yellow	yellow	red
(4)	yellow	purple	red

- A. 1
- B. 2
- C. 3
- ✓ D. 4

Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,579

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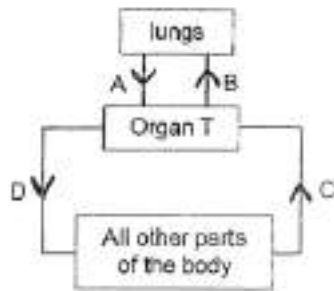
### Question 11

Primary 6 Science » Primary 6 Science (Prelim)

1 pt



The diagram below shows the flow of blood in a human body.



Based on the diagram above, which of the following is correct?

	Organ T	Blood rich in oxygen	Blood rich in carbon dioxide
(1)	heart	A and D	B and C
(2)	nose	B and D	A and C
(3)	heart	B and C	A and D
(4)	nose	A and C	B and D

- ✓ A. 1  
B. 2  
C. 3  
D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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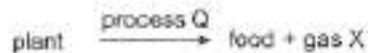
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## Question 12

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The following takes place in plants when there is light.



Identify process Q and gas X.

	process Q	gas X
(1)	germination	carbon dioxide
(2)	fertilisation	oxygen
(3)	pollination	carbon dioxide
(4)	photosynthesis	oxygen

- A. 1  
B. 2  
C. 3  
✓ D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,586

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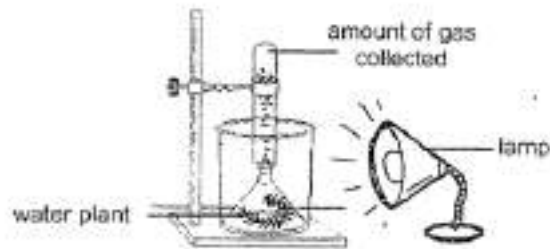
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## Question 13

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Lins created the set-up shown below.



She measured the number of bubbles produced by the plant for one minute. She repeated the experiment with different values of X and recorded her observations in the table below.

variable X (unit)	amount of gas collected (cm <sup>3</sup> )
15	32
25	27
35	18
45	9

Based on the information shown above, which of the following is variable X?

- A. light intensity
- B. number of leaves
- C. amount of carbon dioxide
- ✓ D. distance between the lamp and water plant

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,590

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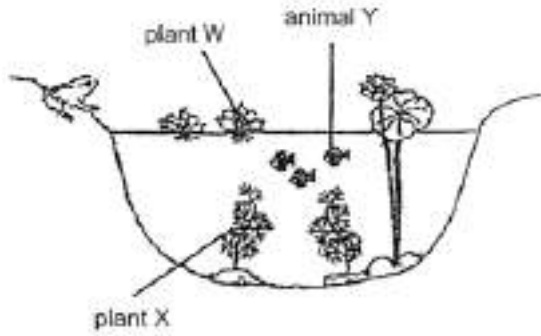
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## Question 14

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

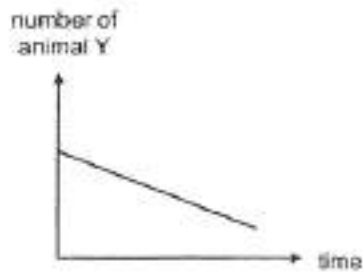
The table below shows the organisms in a pond. Animal Y eats plant X only.



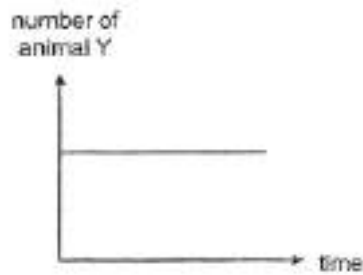
Plant W grew at a very fast rate and covered the surface of the pond within two weeks.

Which of the following graphs correctly shows the change in the number of animal Y after two months?

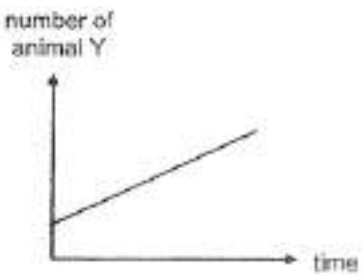
✓ A.



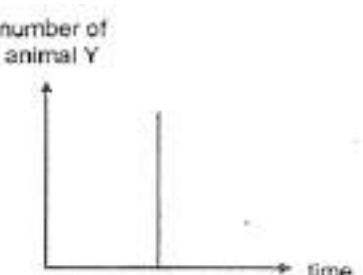
B.



C.



D.



**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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**QID#:** 29,457,605

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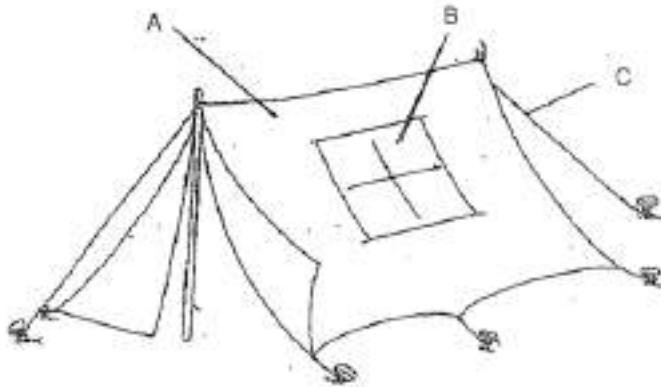
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## Question 15

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The picture shows a camping tent. Part B is a window.



The table below shows the properties of four different materials, W, X, Y and Z.

Material	Properties			
	waterproof	transparent	strong	flexible
W	✓	✓		
X	✓		✓	✓
Y			✓	✓
Z			✓	

Which one of the following shows the most suitable material for parts A, B and C of the camping tent?

	A	B	C
(1)	W	X	Z
(2)	Z	W	X
(3)	X	W	Y
(4)	Y	Z	W

- A. 1  
 B. 2  
 ✓ C. 3  
 D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,611

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## Question 16

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Study the diagram below carefully.



Which of the following shows heat loss during the processes?

- A. B only
- B. A and C only
- ✓ C. B and C only
- D. A and D only

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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**QID#:** 29,457,616

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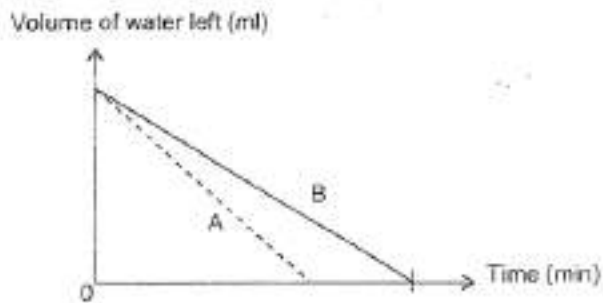
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## Question 17

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

George filled two containers, A and B, with the same amount of water and placed them at two different locations. He measured the volume of water left in each container at regular intervals over some time and plotted the graph below.



Based on the graph, which one of the following statement is most likely correct?

- ✓ A. container A was in a location with a higher temperature than container B
- B. container A has a smaller exposed surface area than container B
- C. container B has a larger exposed surface area than container A
- D. container B was in a location with a higher temperature than container A

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A

QID#:

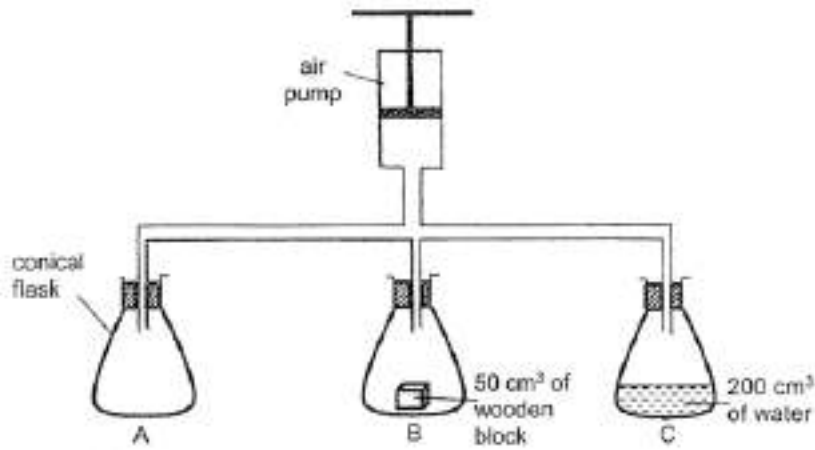
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[Remove From Test](#)**Question 18**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Three 500 cm<sup>3</sup> conical flask, A, B and C are joined to an air pump as shown in the diagram below.



The handle of the air pump is pushed down three times, pushing in 50 cm<sup>3</sup> of air with each pumping action.

What is the final volume of air in each flask at the end of the experiment?

	Flask A (cm <sup>3</sup> )	Flask B (cm <sup>3</sup> )	Flask C (cm <sup>3</sup> )
(1)	650	650	650
(2)	500	450	300
(3)	500	500	350
(4)	650	600	450

- A. 1  
 B. 2  
 C. 3  
 D. 4

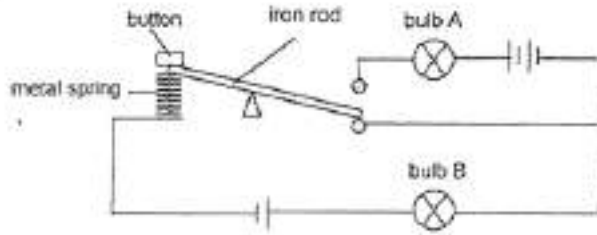
**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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[Remove From Test](#)**Question 19**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Study the circuit below. Bulbs A and B are identical and the three batteries are identical. At the start, bulb A is unlit while bulb B is lit with a brightness of 10 units.



If the button is pressed and held down, what would happen to the brightness of bulbs A and B?

	bulb A	bulb B
(1)	more than 10 units	same as 10 units
(2)	will not light up	will not light up
(3)	more than 10 units	more than 10 units
(4)	will not light up	same as 10 units

- A. 1
- B. 2
- ✓ C. 3
- D. 4

Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,635

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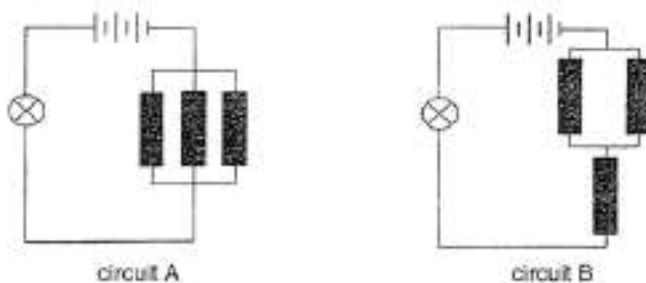
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### Question 20

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows two circuits, A and B. Each of the circuit has a steel rod, a glass rod and a plastic rod which is represented by the black rectangles.



Which observation is correct based on the above circuits?

	bulb in circuit A	bulb in circuit B
(1)	does not light up	does not light up
(2)	does not light up	lights up
(3)	lights up	does not light up
(4)	lights up	lights up

- A. 1
- B. 2
- ✓ C. 3
- D. 4

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
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**QID#:** 29,457,636

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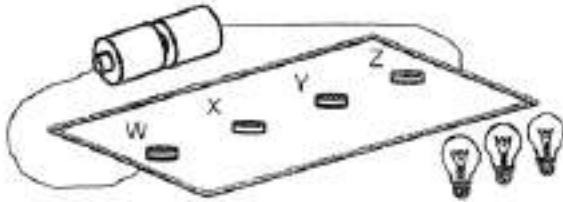
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### Question 21

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

All constructed a game using two batteries and four light bulbs holder W, X, Y and Z. The wires were hidden behind the card.

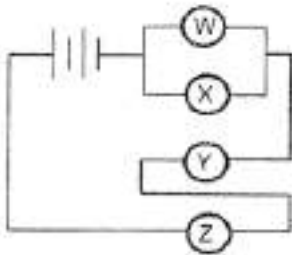


All tried to find out how W, X, Y and Z were connected using three identical light bulbs. His findings are as shown below.

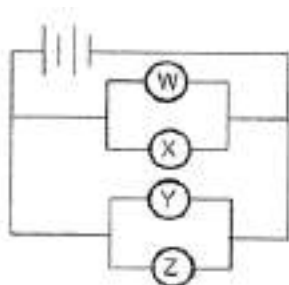
There is no bulb at	Findings
W	bulbs at holder X, Y and Z lit up
X	bulbs at holder W, Y and Z lit up
Y	bulbs at holder W, X and Z did not light up
Z	bulbs at holder W, X and Y did not light up

Which of the following shows the correct circuit of the set-up.

✓ A.

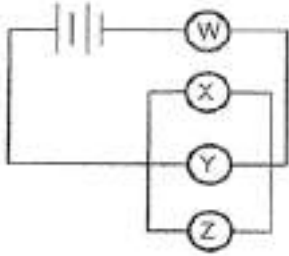


B.

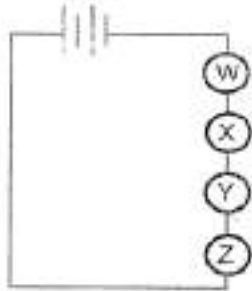


C.





D.



**Question Type:** Multiple Choice  
**Randomize Answers:** No  
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### Question 22

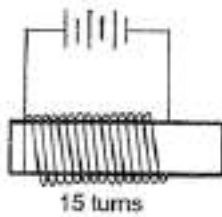
Primary 6 Science » Primary 6 Science (Prelim)

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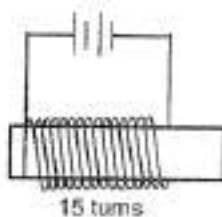
Jane wants to find out whether the number of turns of the wire around the steel rod affects the strength of the electromagnet.

Which two set-ups below should she choose to conduct a fair test?

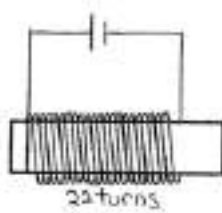
A



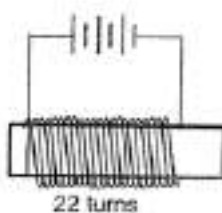
B



C



D



- A. A and C only
- ✓ B. A and D only

- C. B and C only
- D. B and D only

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
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## Question 23

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagrams below show three examples of how forces are used.



A: playing a violin



B: sweeping the floor



C: making a fire by rubbing a stick onto a wooden board

Which of the example(s) involve(s) friction?

- A. A only
- B. C only
- C. B and C only
- ✓ D. A, B and C

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,655

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

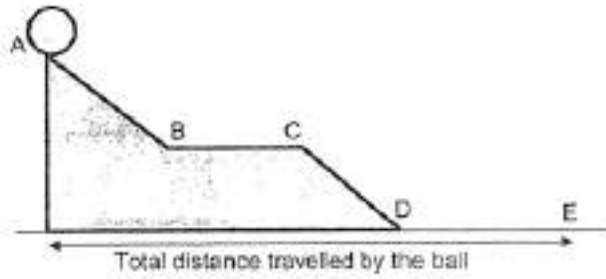
[Remove From Test](#)

## Question 24

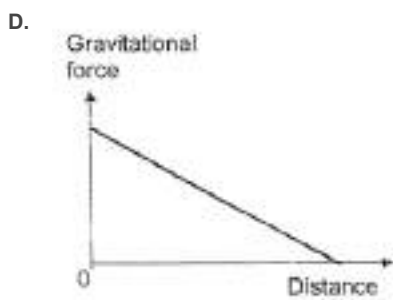
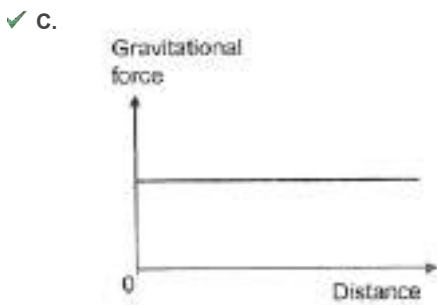
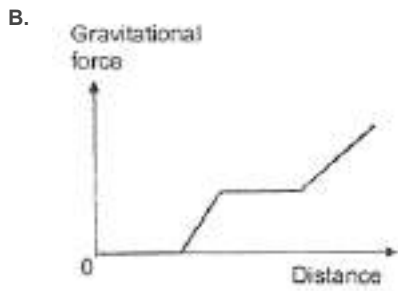
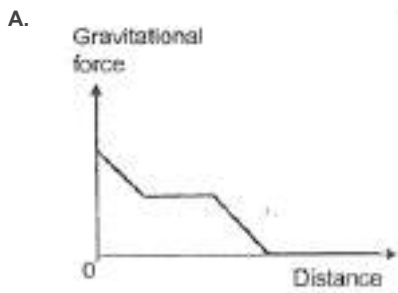
Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Alex releases a ball from the top of the ramp as shown below.



Which one of the following graph shows the gravitational force acting on the ball?



Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,664

Answers | Edit | Duplicate | Used In | Reorder

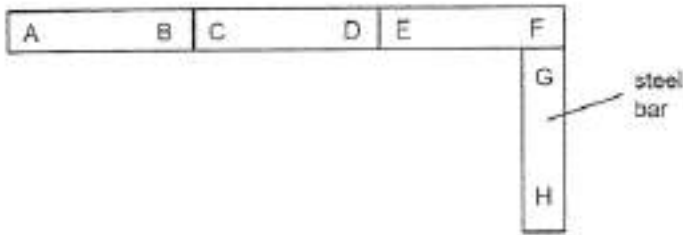
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### Question 25

Primary 6 Science » Primary 6 Science (Prelim)

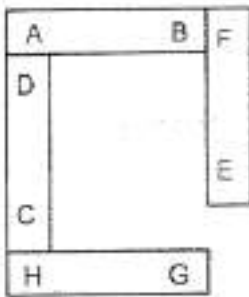
1 pt

Joyce set up three magnets AB, CD, EF and a steel bar GH as shown in the arrangement below.

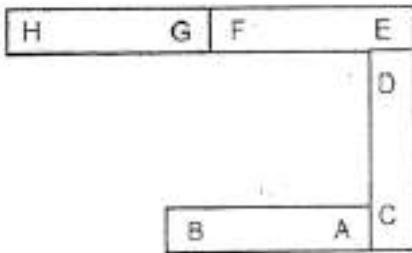


Which of the following is correct?

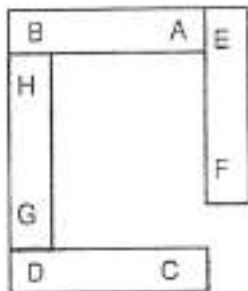
A.



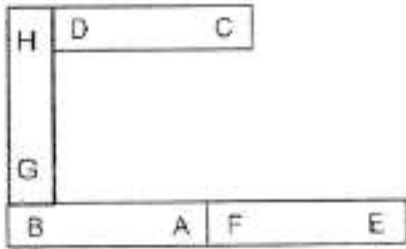
B.



C.



✓ D.



**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,672

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

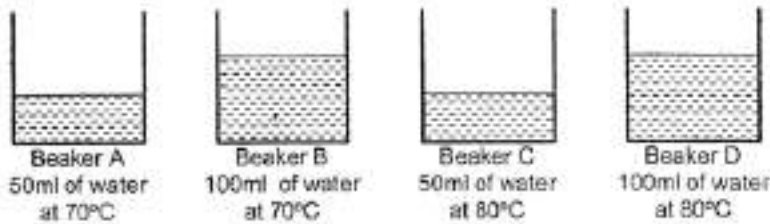
[Remove From Test](#)

## Question 26

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Four identical beakers, filled with different amount of water of different temperatures, are used in an experiment to test the amount of heat in each of them.



Which of the four beakers has the most amount of heat?

- A. Beaker A
- B. Beaker B
- C. Beaker C
- ✓ D. Beaker D

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,729

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

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## Question 27

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

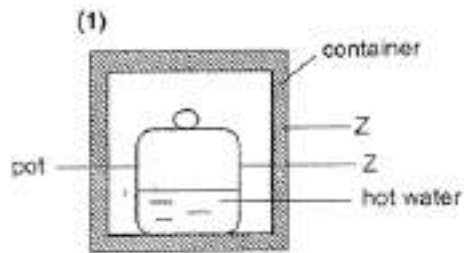
Three materials of the same size, thickness and temperature were heated with the same heater. The time taken for the temperature of the three materials to increase by  $10^{\circ}\text{C}$  were recorded in the table shown.

Material	Time taken to increase the temperature by $10^{\circ}\text{C}$ (min)
X	5
Y	2
Z	8

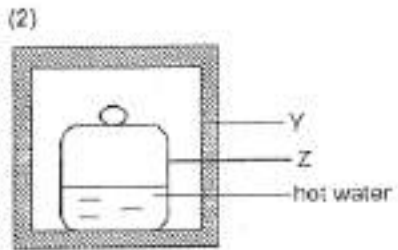
The materials were then used to make the following containers and pots. The same amount of hot water at  $90^{\circ}\text{C}$  was poured into each pot.

Which of the following set-ups would keep the water hottest for the longest time?

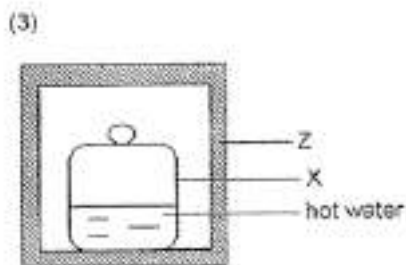
✓ A.



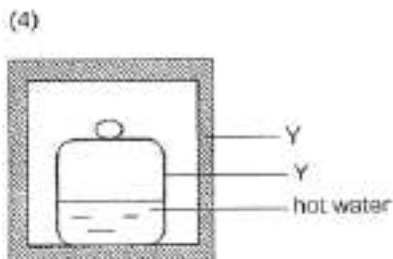
B.



C.



D.



Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021

Last Modified: N/A  
 QID#: 29,457,759

Answers | Edit | Duplicate | Used In | Reorder

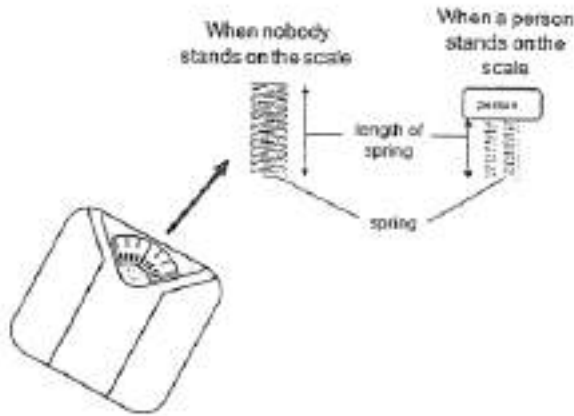
Remove From Test

### Question 28

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows how the spring inside the weighing scale works when a person stands on it.



The table below shows the length of the spring when persons A, B and C stood on the weighing scale, one at a time.

Person	Length of spring (mm)
A	10
B	5
C	15

Based on the information provided, which of the following is correct?

	Person who caused the spring to have the most amount of elastic potential energy when he stepped on the weighing scale	Person with the most mass
(1)	B	B
(2)	B	C
(3)	C	A
(4)	C	B

- ✓ A. 1
- B. 2
- C. 3
- D. 4

Question Type: Multiple Choice  
 Randomize Answers: No  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,763

Answers | Edit | Duplicate | Used In | Reorder

Remove From Test

### Question 29

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Mr Wee is the owner of a fish-farm. He observed that when the temperature of the water in the fish pond is higher, more of the fish died.

He conducted an experiment to measure the amount of oxygen in the water at different temperatures. His results are shown in the graph below.

Amount of oxygen in the water (units)



Based on the graph, what happens to the amount of oxygen in the water when the water is cooler? (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,767

**Correctly answered feedback**

The cooler the water, the more the amount of oxygen in the water.

**Incorrectly answered feedback**

The cooler the water, the more the amount of oxygen in the water.

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 30

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

b) Mr Wee observed that the breathing rate of the fish increased as the temperature of the water increased. Using the results of his experiment, explain why.

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,774

**Correctly answered feedback**

As the temperature of the water increased, the amount of dissolved oxygen in the water decreased. As a result the fish had to breath faster in order to get enough oxygen.

**Incorrectly answered feedback**

As the temperature of the water increased, the amount of dissolved oxygen in the water decreased. As a result the fish had to breath faster in order to get enough oxygen.

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)



## Question 31

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

c) After Mr Wee grew some water plant in the fish pond, he observed that less fish died when the water temperature increased. Based on the experiment, why was this so?

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,790

**Correctly answered feedback**

It was because there was more oxygen in the water as the plants photosynthesised and oxygen was produced, hence, event as the water temperature increased there would be more oxygen to the fish to breath in comparison to thew oxygen in the tank when the temperature increased and did not have water plants.

**Incorrectly answered feedback**

It was because there was more oxygen in the water as the plants photosynthesised and oxygen was produced, hence, event as the water temperature increased there would be more oxygen to the fish to breath in comparison to thew oxygen in the tank when the temperature increased and did not have water plants.

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

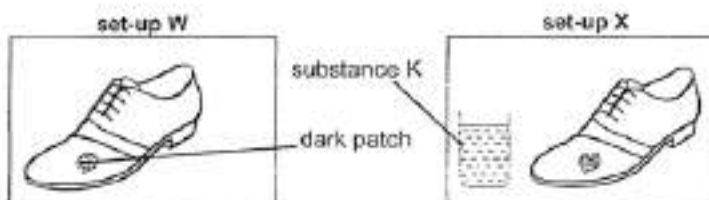
[Remove From Test](#)

## Question 32

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Mr Tan created two set-ups as shown below. Before the experiment, both leather shoes were kept in a cupboard for a long time and as a result, a dark patch grew on each shoe.



What was the dark patch that grew on both shoes? (1m)

**Accepted answers:**

✓ mould

**Question Type:** Free Text  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,794

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 33

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Mr Tan wanted to investigate if substance K can help remove the dark patch. Below is an instruction on how to use substance K.

Place substance K next to leather products with dark patches. The patches will disappear within five days!

After five days, Mr Tan was pleased to see that the dark patch on the shoe in set-up X was gone.

What did substance K remove from set-up X? Explain your answer. (2m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,801

**Correctly answered feedback**

Moisture. Without moisture mould can it grow as it did not have enough water, hence, it will die.

**Incorrectly answered feedback**

Moisture. Without moisture mould can it grow as it did not have enough water, hence, it will die.

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

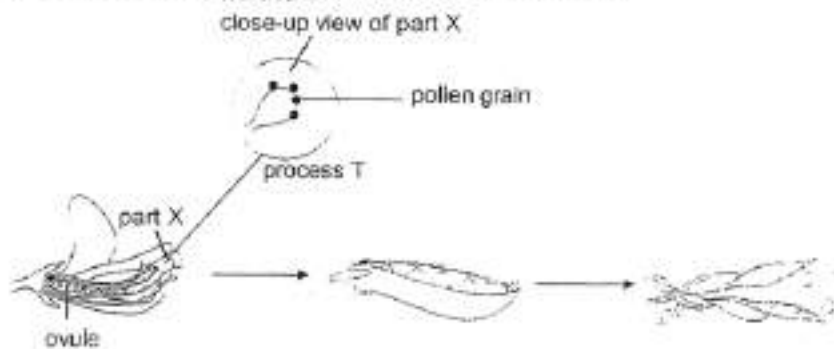
[Remove From Test](#)

## Question 34

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram shows the development of a flower into a fruit.



Base on the close-up view of part X, identify process T. (1m)

**Accepted answers:**

✓ pollination

**Question Type:** Free Text  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,805

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

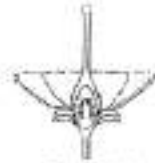
[Remove From Test](#)

## Question 35

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Study the two flowers shown below.



flower K



flower L

On which flower(s) can process T take place? Explain your answer. (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,809

**Correctly answered feedback**

Both they have a stigma for pollen grains to land on

**Incorrectly answered feedback**

Both they have a stigma for pollen grains to land on

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 36

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Flower M shown below is found in the same location as flower L. There is no wind and there are bees flying around.



Flower M

	Flower L	Flower M
Colour of petals	dull	colourful
Scent	no smell	sweet-smelling

Based on the information provided, which flower, L or M, has a higher chance of going through process T with the help of the bees?

Explain your answer. (2m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,814

**Correctly answered feedback**

M. The bees will be attracted to the sweet smell and transport the pollen grain to the flower

**Incorrectly answered feedback**

M. The bees will be attracted to the sweet smell and transport the pollen grain to the flower

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

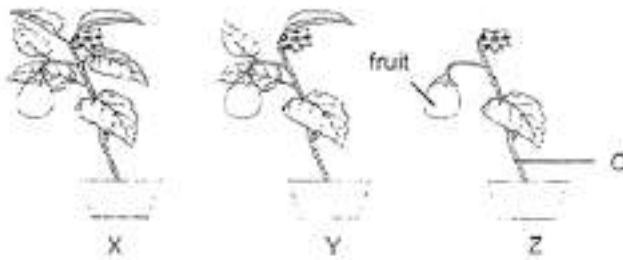
[Remove From Test](#)

## Question 37

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Jason conducted an experiment with three plants, X, Y and Z, as shown in the diagram. The plants were placed in a well-lit area and given the same amount of water daily.



After some time, he measured the mass of the fruit in each set-up. The results are shown in the table below.

Plant	Number of leaves on the plant	Mass of fruit (g)	
		Start of experiment	End of experiment
X	6	8	18
Y	4	8	P
Z	1	8	10

Based on the table, state a possible value for P. (1m)

Accepted answers:

✓ 149

**Question Type:** Free Text  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,819

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 38

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

If all the leaves in plant X are removed, would the mass of the fruit for plant X increase, decrease or remain the same after some time?

A. increase

✓ B. decrease

C. remain the same

---

**Question Type:** Multiple Choice  
**Randomize Answers:** No  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,825

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 39

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

c) Insect E is a pest which eats its way into Part Q of plant X. Explain how this affected the growth of the roots in plant Z

---

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,833

### Correctly answered feedback

The roots will not be able to get food as the food carrying tubes have been eaten by E, hence, it will die

### Incorrectly answered feedback

The roots will not be able to get food as the food carrying tubes have been eaten by E, hence, it will die

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

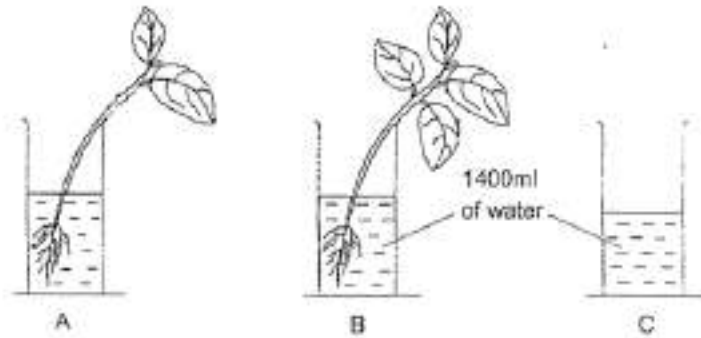
[Remove From Test](#)

## Question 40

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Jia Hao created the set-up shown below. He placed two plants in containers A and B and filled all three containers with the same amount of water.



The three set-ups were placed in the garden for five days.

The table below shows the amount of water in the measuring cylinders at the start and at the end of the experiment.

Day	Set-up A (ml)	Set-up B (ml)	Set-up C (ml)
Day 1	1400	1400	1400
Day 5	1200	1150	1300

Jia Hao concluded that the plant in set-up B took in 250ml of water. Explain whether his conclusion is correct. (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,933

#### Correctly answered feedback

No. The water in the beaker may have evaporated when the water gained heat

#### Incorrectly answered feedback

No. The water in the beaker may have evaporated when the water gained heat

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 41

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

b) Jia Hao would like to find out if the presence of roots would affect the amount of water taken in by the plant using Set-up A and B.

What are the two changes he must do to the plant in set-up B in order to conduct a fair test?

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,942

#### Correctly answered feedback

1. Remove 2 leaves from the plant
2. Remove the roots from one of the plants

**Incorrectly answered feedback**

1. Remove 2 leaves from the plant
2. Remove the roots from one of the plants

[Answers](#) | 
 [Edit](#) | 
 [Duplicate](#) | 
 [Used In](#) | 
 [Reorder](#)

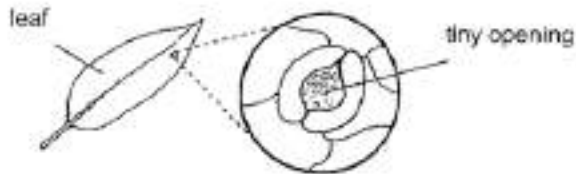
[Remove From Test](#)

**Question 42**

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

A leaf has tiny openings on its surface as shown in the diagram below. The tiny openings allows gaseous exchange to take place for the plant.



Jane measured the changes in the size of the tiny openings of some leaves on a plant. The plant was placed in the school field for a day. She recorded her results in the table below.

Time	4am	8am	12pm	4pm	8pm
Average size of the tiny openings (units)	1	3	5	3	1

Based on the table, how did the size of the tiny openings change from 4am to 12pm? (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,946

**Correctly answered feedback**

The size of the tiny openings increase

**Incorrectly answered feedback**

The size of the tiny openings increase

[Answers](#) | 
 [Edit](#) | 
 [Duplicate](#) | 
 [Used In](#) | 
 [Reorder](#)

[Remove From Test](#)

**Question 43**

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

What is the advantage and disadvantage to the plant when the size of the tiny openings are bigger?

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,952

**Correctly answered feedback**

Advantage: The plant can take in more oxygen for survival  
 Disadvantage: More water in the plant will gain and evaporate

### Incorrectly answered feedback

Advantage: The plant can take in more oxygen for survival  
 Disadvantage: More water in the plant will gain and evaporate

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 44

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Which human body system has a similar function as the tiny openings on the leaf?

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,955

### Correctly answered feedback

Respiratory system

### Incorrectly answered feedback

Respiratory system

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

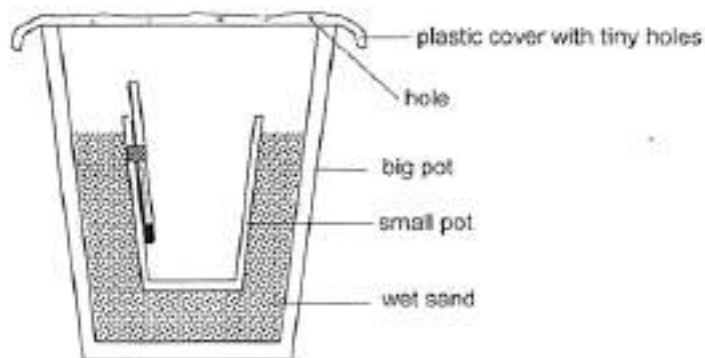
[Remove From Test](#)

## Question 45

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Andy set up the experiment as shown below. He placed the set-up in a dry place.



(a) What will be formed under the plastic sheet after some time? (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,959

### Correctly answered feedback



water droplets

**Incorrectly answered feedback**

water droplets

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 46

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

b) He noticed that there is a drop in the temperature of the air inside the small pot. Explain why

**Question Type:** Essay

**Date Added:** Tue 26th Oct 2021

**Last Modified:** N/A

**QID#:** 29,457,964

**Correctly answered feedback**

Water gains and evaporates. The water vapour escapes, causing the temperature inside the small pot to be lower

**Incorrectly answered feedback**

Water gains and evaporates. The water vapour escapes, causing the temperature inside the small pot to be lower

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

## Question 47

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

c) After several hours, he noticed some water collected at the bottom of the small pot. Without changing the set-up, suggest one way to increase the amount of water collected in the small pot.

**Question Type:** Essay

**Date Added:** Tue 26th Oct 2021

**Last Modified:** N/A

**QID#:** 29,457,967

**Correctly answered feedback**

Place the set-up under hot sun

**Incorrectly answered feedback**

Place the set-up under hot sun

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

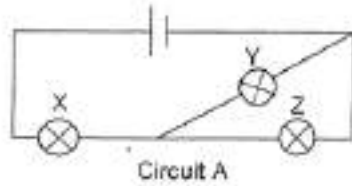
[Remove From Test](#)

## Question 48

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

May constructed circuit A, as shown below. All the bulbs lit up in circuit A.



- (a) May removed one of the bulbs from circuit A and the other two bulbs did not light up. Which bulb did May remove? Explain your answer. (2m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,972

**Correctly answered feedback**

X. When X was removed it caused an open circuit and electricity could not pass through

**Incorrectly answered feedback**

X. When X was removed it caused an open circuit and electricity could not pass through

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

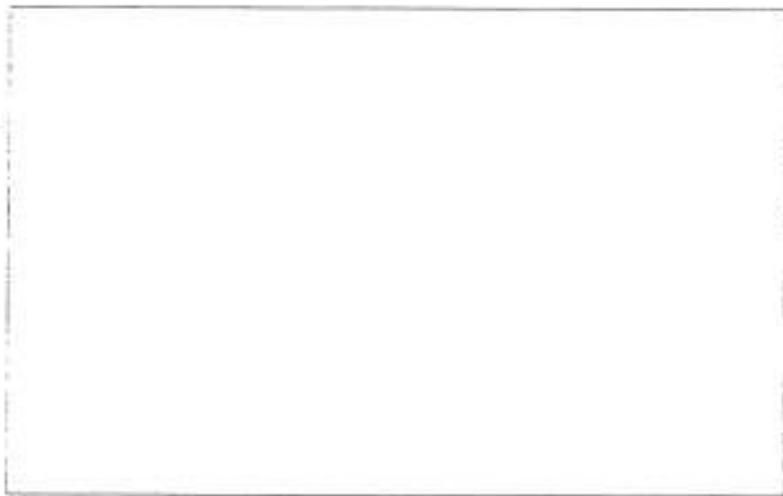
[Remove From Test](#)

## Question 49

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

- (b) May wanted to rearrange bulbs X, Y and Z, such that when one of the bulbs is fused, the remaining two bulbs will continue to light up. Complete the circuit diagram to show this new arrangement. (1m)



**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,974

Correctly answered feedback



Incorrectly answered feedback



[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

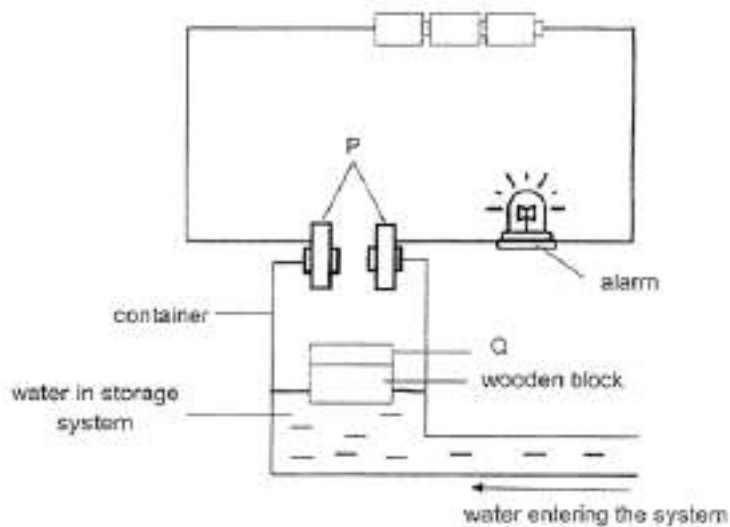
[Remove From Test](#)

## Question 50

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows a model that can detect the amount of water in a storage system. When the amount of water reaches a certain level, the alarm sounds to alert that the storage system is full.



(c) What material must part P and Q be made of? (1m)

Accepted answers:

✓ metal

Question Type: Free Text  
 Date Added: Tue 26th Oct 2021  
 Last Modified: N/A  
 QID#: 29,457,980

**Question 51**

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

d) Explain the answer for part (c)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,987

**Correctly answered feedback**

metal is an electrical conductor and allows electrical to Flow through

**Incorrectly answered feedback**

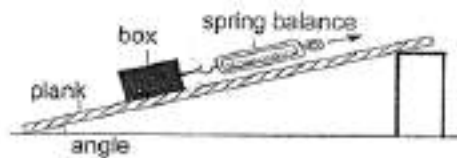
metal is an electrical conductor and allows electrical to Flow through

**Question 52**

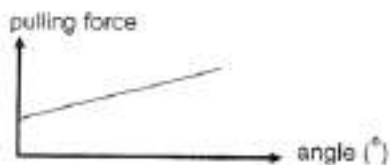
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Joe set up an experiment as shown below. He pulled the box up the plank using a spring balance. He repeated the experiment using different values of the angle.



He plotted a line graph to show the results of the experiment.



(a) What is the relationship between the angle and the pulling force needed?  
 (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,990

**Correctly answered feedback**

The bigger the angle, the more the pulling force

**Incorrectly answered feedback**

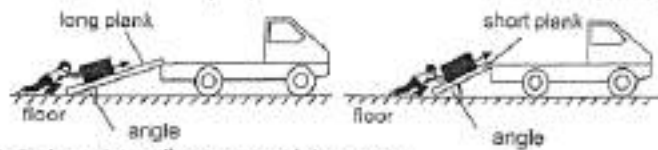
The bigger the angle, the more the pulling force

## Question 53

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Joe wanted to push a box up a plank to the back of a truck as shown below.



The table below shows the values of the angles.

	long plank	short plank
Value of angle ( $^{\circ}$ )	40	60

- (b) Based on the graph and table, why it is a disadvantage to push the box up the truck using the short plank? Explain in terms of forces. (2m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,457,998

#### Correctly answered feedback

The angle is bigger. Hence, Joe would need to exert a bigger push force than using the long plank in order to push the box up the short plank

#### Incorrectly answered feedback

The angle is bigger. Hence, Joe would need to exert a bigger push force than using the long plank in order to push the box up the short plank

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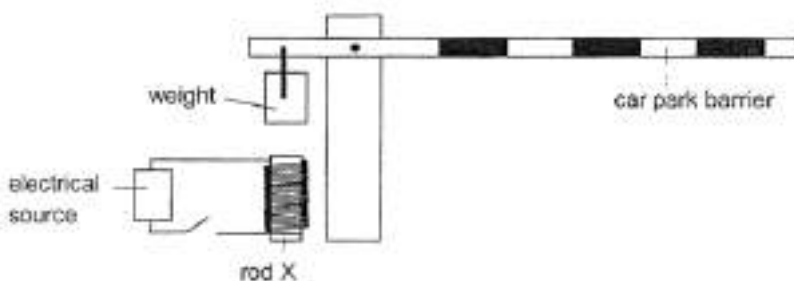
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## Question 54

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

8. David studied how the car park barrier operates using the circuit as shown. When he closed the switch, the weight moved downwards and touch rod X causing the car park barrier to rise.



- (a) For the carpark barrier to work, give an example of a metal that the weight can be made of. (1m)

**Accepted answers:**

✓ Cobalt

**Question Type:** Free Text  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,002

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### Question 55

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

b) Explain why the weight touched rod X after David closed the switch

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,012

**Correctly answered feedback**

Electricity can flow through the circuit, causing the rod X to be magnetised. The electromagnet attract the weight which is made of a magnetic materials

**Incorrectly answered feedback**

Electricity can flow through the circuit, causing the rod X to be magnetised. The electromagnet attract the weight which is made of a magnetic materials

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### Question 56

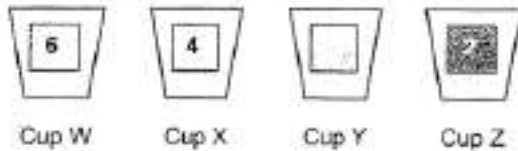
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

A heat camera can show different temperatures. Each number is represented by a different shade of colour.

Temperature (°C)	21-30	31-40	41-50	51-60	61-70	71-80
Colour	1	2	3	4	5	6

Harry was given 4 cups of water, W, X, Y and Z. When he viewed the water in the cups through the heat camera, the following colours were observed.



(a) State the possible temperatures of water in the four cups in the table below. (1m)

Cup W	Cup X	Cup Y	Cup Z

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,018

**Correctly answered feedback**

71,51,41,31

**Incorrectly answered feedback**

71,51,41,31

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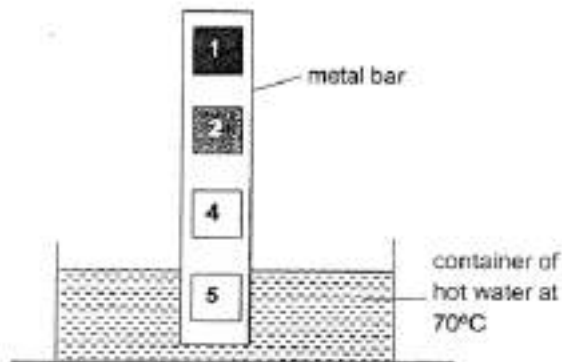
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## Question 57

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Harry placed a metal bar in a container of hot water at 70°C. When viewed through the heat camera, the following colours were observed on the metal bar.



- (b) Based on the above diagram, explain why different colours were observed on the metal bar. (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,020

**Correctly answered feedback**

The bottom end of the metal bar gained heat from the hot water faster than the upper end of the bar

**Incorrectly answered feedback**

The bottom end of the metal bar gained heat from the hot water faster than the upper end of the bar

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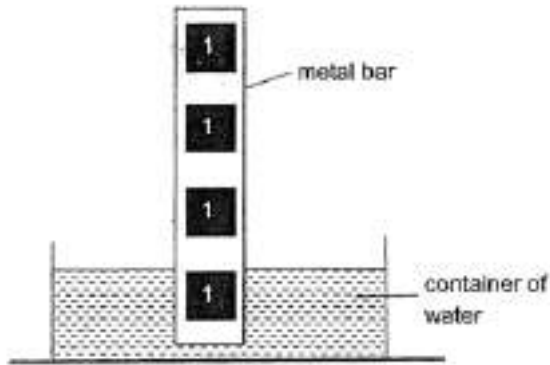
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## Question 58

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

An hour later, when viewed through the heat camera, only one colour was observed on the metal bar.



(c) Explain why only one colour was observed after an hour. (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,027

**Correctly answered feedback**

The metal rod lost heat to the surrounding. Its temperature decreased to room temperature

**Incorrectly answered feedback**

The metal rod lost heat to the surrounding. Its temperature decreased to room temperature

[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

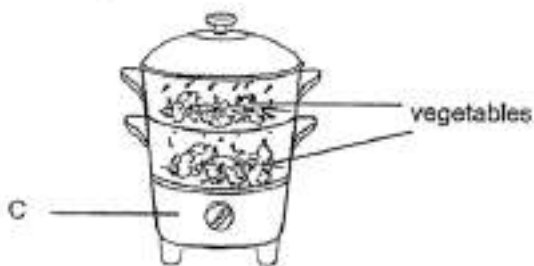
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## Question 59

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

A steamer uses steam to cook vegetables. The steam forms when the water in part C boils.



(a) What is the state of matter for steam? (1m)

**Question Type:** Essay  
**Date Added:** Tue 26th Oct 2021  
**Last Modified:** N/A  
**QID#:** 29,458,030

**Correctly answered feedback**

gaseous state



**Incorrectly answered feedback**

gaseous state

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**Question 60**

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

b) Explain why keeping the cooked vegetables in a glass container will keep it warm for a longer period of time

**Question Type:** Essay

Date Added: Tue 26th Oct 2021

Last Modified: N/A

QID#: 29,458,035

**Correctly answered feedback**

Glass is a heat insulator. Hence heat will be lost slower and the cooked vegetable will warm for a longer period of time

**Incorrectly answered feedback**

Glass is a heat insulator. Hence heat will be lost slower and the cooked vegetable will warm for a longer period of time

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**Question 61**

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The table below shows the minimum temperature needed for cooking different types of food so that it is safe to eat.

Type of food	Minimum cooking temperature (°C)
X	92
Y	85
Z	80

- (c) Mrs Ong said that the three types of food can be cooked in a steamer until it is safe to eat. Based on the table, explain why she is correct. (2m)

**Question Type:** Essay

Date Added: Tue 26th Oct 2021

Last Modified: N/A

QID#: 29,458,039

**Correctly answered feedback**

As steam is water vapour at 100, the steamer would have heated the food to 100 which is above their minimum cooking temperature

**Incorrectly answered feedback**

As steam is water vapour at 100, the steamer would have heated the food to 100 which is above their minimum cooking temperature

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