




 **Primary 6 Science (Prelim) - Raffles (Y0)** 

Add Questions **Assign** **Settings** **Review**

 Duplicate  Print  Delete

 **Assign Test**

Test Introduction

[+ Add Introduction](#)

64 Questions (68.5 Points)

Question Bank: 12,655 Questions 

Test Questions **0 Test Assignments**

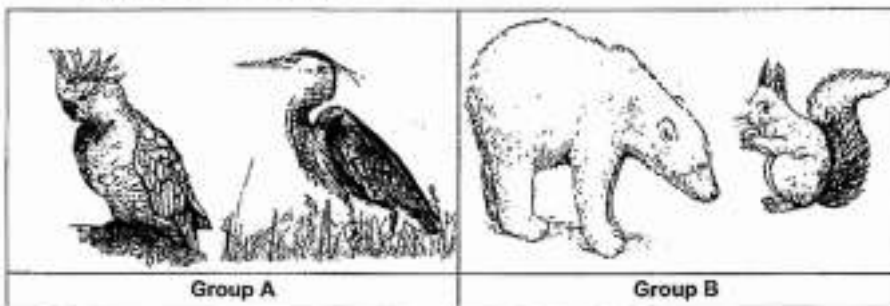
Question 1

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

For each question, four options are given. One of them is the correct answer, make your choice below. (28 x 2 marks)

Study the animals in groups A and B below.



Which of the following is correct? A tick (✓) shows the presence of the characteristic(s) of the animals.

A.

Group	Has body covering of feathers	Has body covering of fur	Has wings
A		✓	✓

✓ B.

A	✓		✓
---	---	--	---

C.

B		✓	✓
---	--	---	---

D.

B	✓		
---	---	--	--

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,554

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

[Remove From Test](#)

Question 2

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Which of the following statements about fungi are true?

- A Yeast is a type of fungi.
- B Fungi reproduce by spores.
- C Fungi are not made of cells.
- D Fungi do not have chloroplasts.

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,563

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

[Remove From Test](#)

Question 3

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Observations made on animals P and Q are recorded in the table below.

Characteristic \ Animal	Has 3-staged life cycle	Lay eggs on land	Young resembles adult
P	✓	✓	✓
Q	✓		

Which of the following represents animals P and Q correctly?

A.

Animal P	Animal Q
butterfly	mosquito

B.

Animal P	Animal Q
butterfly	frog

✓ C.

Animal P	Animal Q
cockroach	frog

D.

Animal P	Animal Q
cockroach	mosquito

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,571

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

[Remove From Test](#)

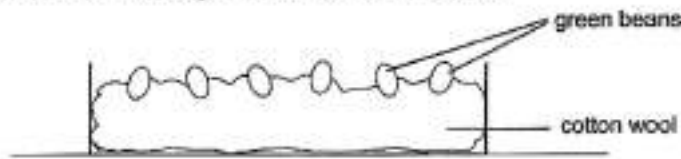
Question 4

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Bethany investigated the conditions needed for the germination of green beans.

She prepared three set-ups, A, B and C, each containing same amount of cotton wool and the same number of green beans as shown below.



The table below shows the conditions each set-up was exposed to.

Set up	Conditions		
	Cotton wool	Temperature (°C)	Presence of light
A	damp	30	yes
B	dry	30	yes
C	damp	0	no

Bethany recorded the observations on the green beans after five days.

Which of the following observations correctly matches the reason?

A.

Observation	Reason
Green beans in set-up A germinated.	Air, water and warmth needed for germination were present.

✓ B.

Observation	Reason
Green beans in set-up A germinated.	Air, water and warmth needed for germination were present.

C.

Observation	Reason

Green beans in set-up B did not germinate.	No light was present.
--	-----------------------

D. Observation	Reason
Green beans in set-up C did not germinate.	No warmth and light were present.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,595

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

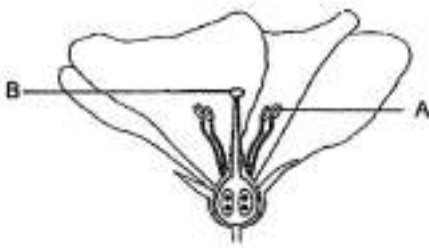
[Remove From Test](#)

Question 5

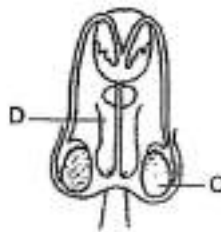
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The diagrams below show the reproductive systems of a plant and human.



Plant reproductive system



Human reproductive system

Which of the following represent the parts involved in producing the male reproductive cells?

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,602

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

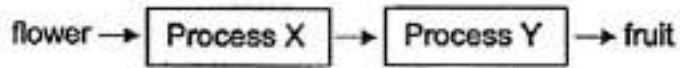
[Remove From Test](#)

Question 6

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The diagram below shows how a fruit is developed from a flower.



Which of the following correctly identifies processes X and Y?

- A.

Process X	Process Y
seed dispersal	fertilisation
- B.

Process X	Process Y
fertilisation	seed dispersal
- C.

Process X	Process Y
fertilisation	pollination
- ✓ D.

Process X	Process Y
pollination	fertilisation

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,782

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

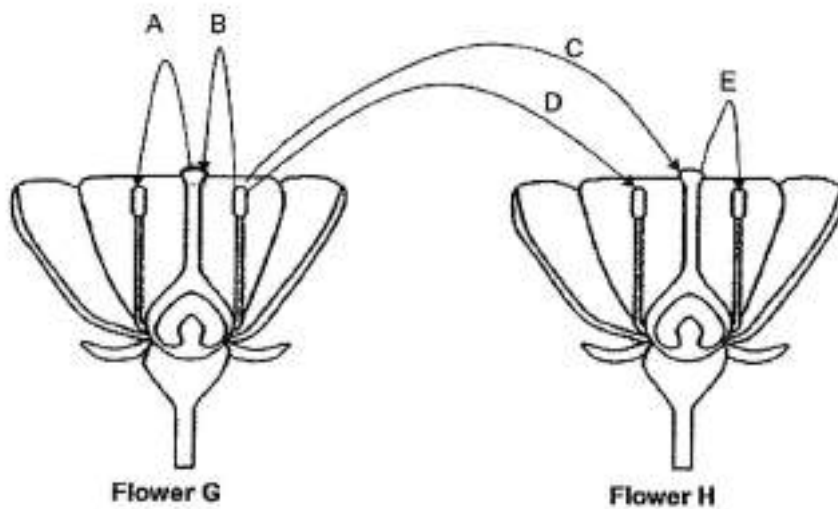
[Remove From Test](#)

Question 7

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The diagrams below show two flowers, G and H, from the same type of plant.



Which is / are the arrow(s) that represent(s) the process pollination?

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,785

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

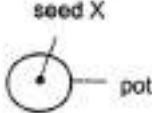
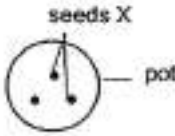
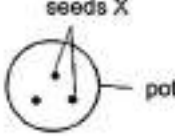
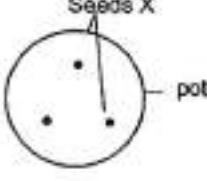
[Remove From Test](#)

Question 8

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Sarah wanted to find out if overcrowding affects plant growth. The table below shows four different set-ups, P, Q, R and S, each containing the same amount of soil. She watered each set-up with the same amount of water daily.

Set-ups	Conditions		
	Size of pot and number of seeds	Location	Temperature (°C)
P		classroom	25
Q		garden	35
R		garden	25
S		garden	35

Which set-ups, P, Q, R and S, should Sarah use to ensure a fair test?

- A. P and R only
- B. P and S only
- ✓ C. Q and S only
- D. Q and R only

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,787

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

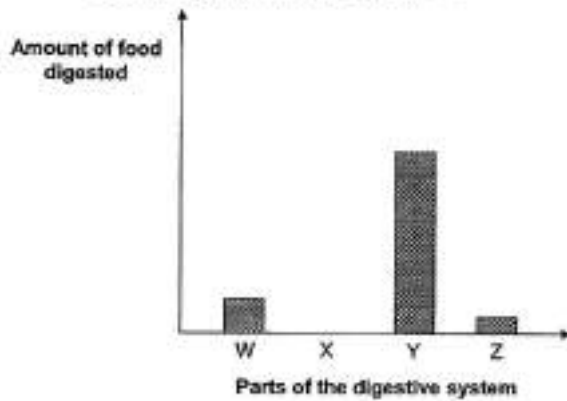
[Remove From Test](#)

Question 9

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The chart below shows the amount of food digested in various parts of the human digestive system six hours after a meal.



Based on the graph above, which one of the following best represents W, X, Y and Z respectively?

- ✓ A.

W	X	Y	Z
stomach	large intestine	small intestine	mouth
- B.

W	X	Y	Z
stomach	mouth	small intestine	large intestine
- C.

W	X	Y	Z
mouth	small intestine	large intestine	stomach
- D.

W	X	Y	Z
small intestine	large intestine	mouth	stomach

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,798

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

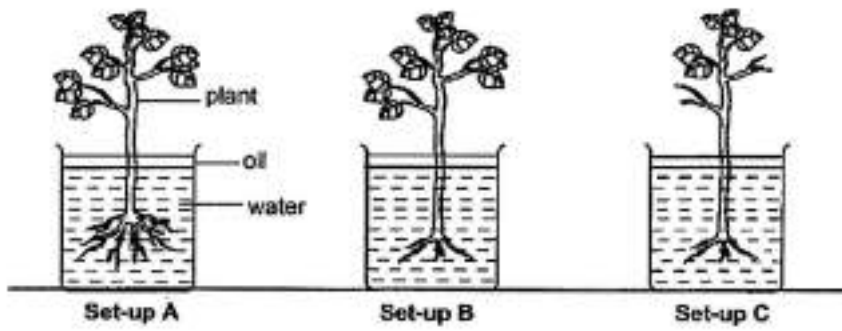
[Remove From Test](#)

Question 10

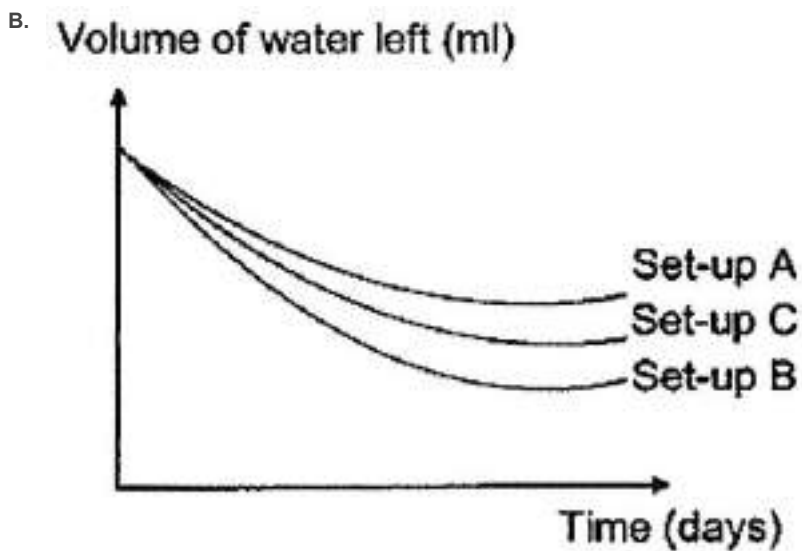
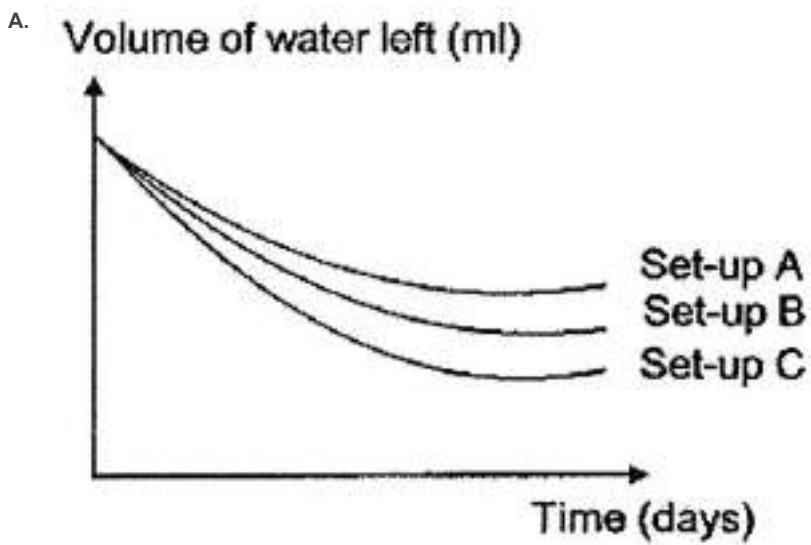
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

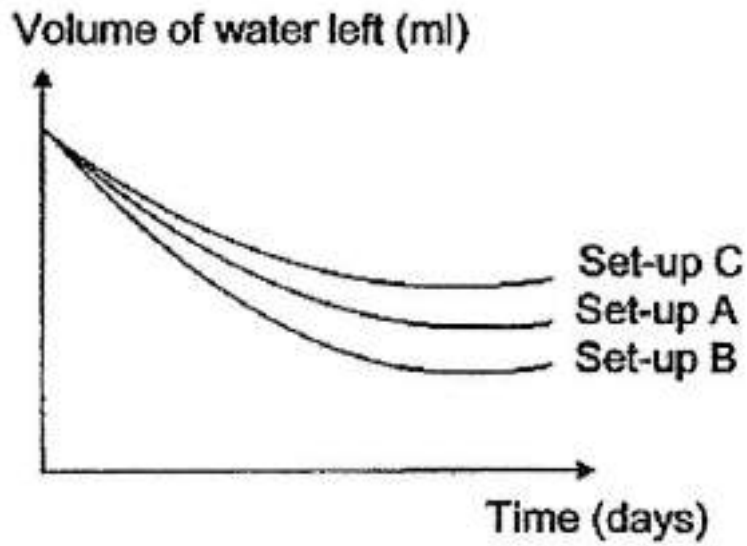
Norris prepared set-ups A, B and C using the same type of plant. She removed some roots from the plants in set-ups B and C and removed some leaves from the plant in set-up C as shown in the diagrams below. She observed the volume of water left in each set-up over a period of one week.



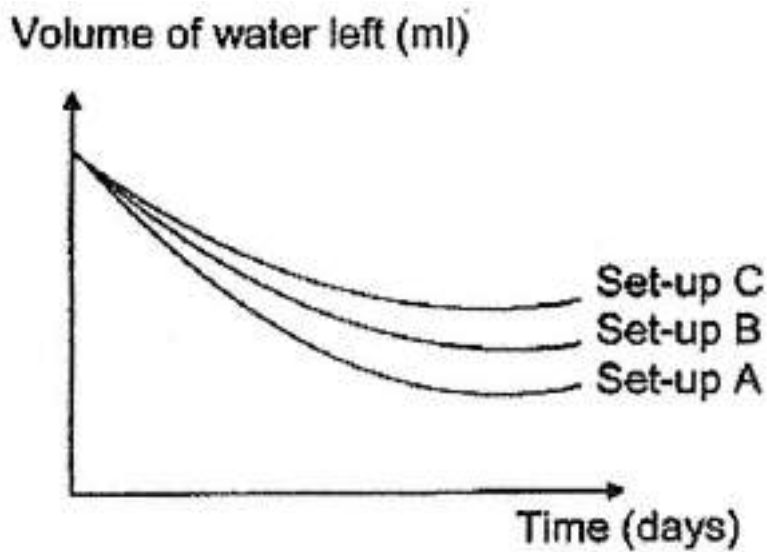
Which of the following graphs best represents the results obtained for the three set-ups, A, B and C?



C.



✓ D.



Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,801

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

[Remove From Test](#)

Question 11

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Which one of the following parts is found in a root cell but not in a cheek cell?

- A. cell wall
- B. cytoplasm
- ✓ C. chloroplast
- D. cell membrane

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,804

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

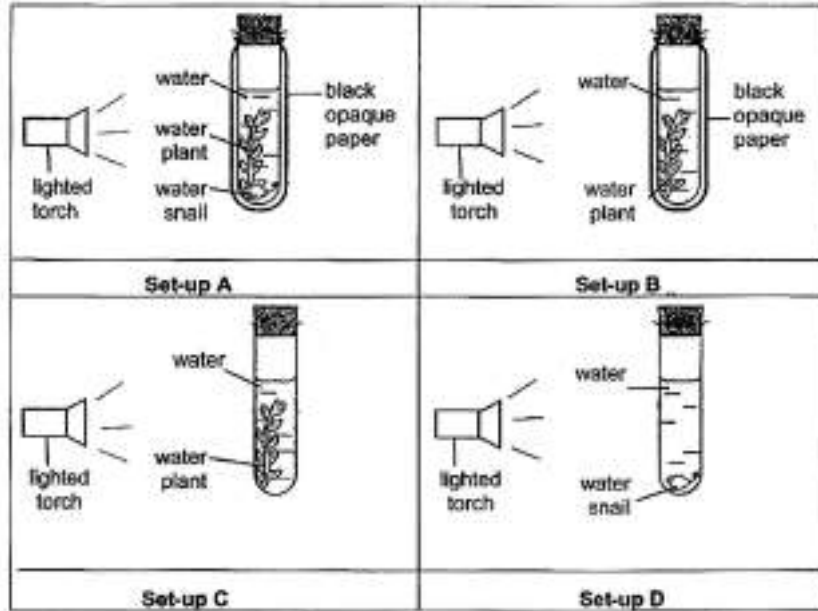
[Remove From Test](#)

Question 12

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Denise prepared set-ups A, B, C and D as shown below.



She measured the concentration of carbon dioxide in the water in each test-tube before the experiment and two hours later.

In which test-tube would there be a decrease in the concentration of carbon dioxide after two hours?

- A. Set-up A
- B. Set-up B
- ✓ C. Set-up C
- D. Set-up D

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,805

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

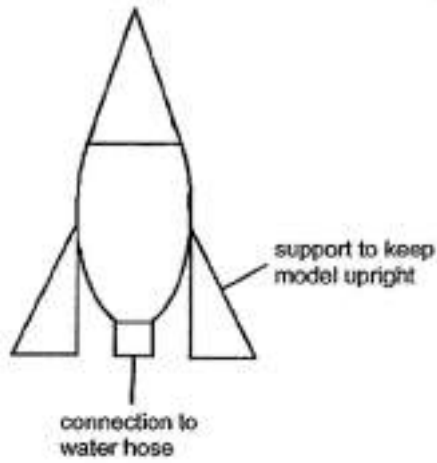
[Remove From Test](#)

Question 13

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Gabi wanted to construct a flying model as shown in the diagram below.



She wanted to conduct a test launch where the flying model would fly to a height of one metre when filled with water and that it would not be damaged when it landed on the ground.

Which of the following properties must she consider while selecting the materials to build her flying model?

- ✓ A. Strength and waterproof
- B. Strength and conductor of heat
- C. Conductor of heat and flexibility
- D. Conductor of electricity and waterproof

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,813

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

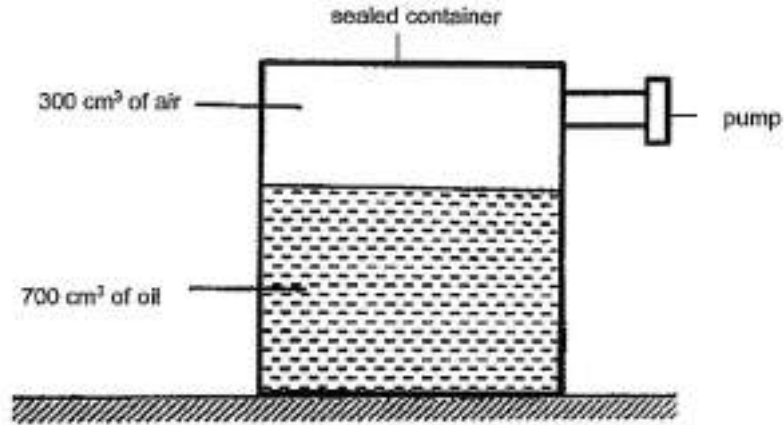
[Remove From Test](#)

Question 14

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

A sealed container holds 700 cm³ of oil and 300 cm³ of air as shown below. Another 200 cm³ of oil is removed and 100 cm³ of air is added to the container through the pump.



What is the final volume of air in the container?

- A. 300 cm³
- B. 400 cm³
- ✓ C. 500 cm³
- D. 600 cm³

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,816

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

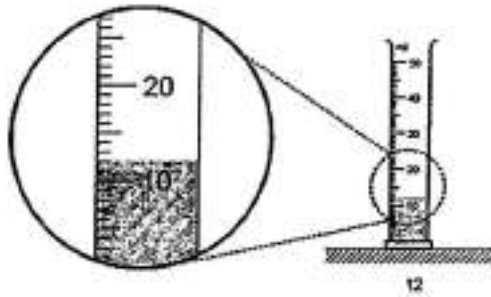
[Remove From Test](#)

Question 15

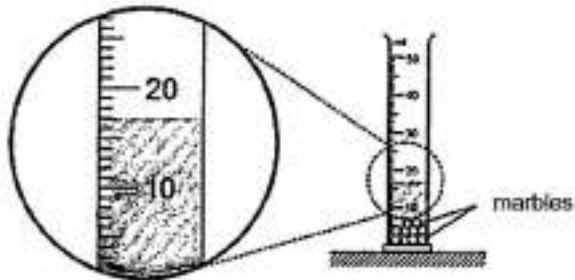
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Tim had a bag of identical marbles. He wanted to find the volume of each marble. He filled a measuring cylinder with water as shown in diagram below.



Tim then put ten marbles in the measuring cylinder of water. His result is shown below



Based on Tim's experiment, which of the following is correct?

- A. Marbles occupy space.
- B. Water has no definite volume.
- C. The volume of each marble is 5 cm³.

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

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,819

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

[Remove From Test](#)

Question 16

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The table below shows the freezing point and boiling point of three substances, X, Y and Z.

Substance	Freezing point (°C)	Boiling point (°C)
X	6	80
Y	17	118
Z	43	181

Which of the substances, X, Y or Z, is/are liquid(s) at 90°C?

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

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,823

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

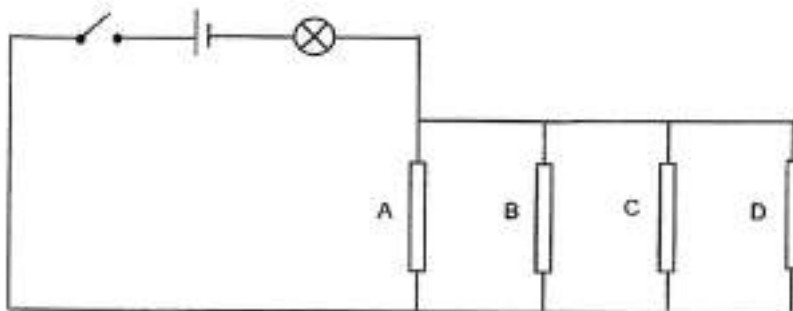
[Remove From Test](#)

Question 17

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Dora wanted to investigate the electrical conductivity of rods A, B, C and D. She constructed the circuit as shown below.



She recorded her observation below when she removed certain rods and closed the switch.

Rod(s) removed from the circuit	Bulb lighted up
D	yes
B and C	yes
B, C and D	no
A, B, D	no

Based on her observation, which of the following conclusions about the rods A, B, C and D is correct?

- A.
- | Electrical conductor(s) | Electrical insulator(s) |
|-------------------------|-------------------------|
| A, C | B, D |

B.	Electrical conductor(s)	Electrical insulator(s)
	B, C, D	A

C.	Electrical conductor(s)	Electrical insulator(s)
	A	B, C, D

✓ D.	Electrical conductor(s)	Electrical insulator(s)
	B, D	A, C

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,834

[↶ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇ Reorder](#)

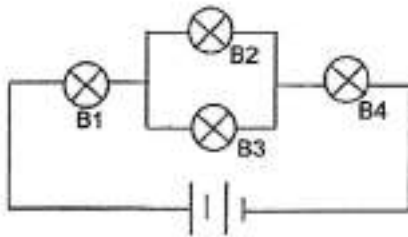
[Remove From Test](#)

Question 18

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The circuit below consists of identical bulbs, B1, B2, B3 and B4, all lit up.



Which of the following is likely to be observed when only one of the bulbs in the above circuit is fused at one time?

A.	Bulb that was fused	Smallest number of bulbs remaining lit	Largest number of bulbs remaining lit
	B1 or B4	0	3

B.	Bulb that was fused	Smallest number of bulbs remaining lit	Largest number of bulbs remaining lit
	B1 or B3	1	2

C.	Bulb that was fused	Smallest number of bulbs remaining lit	Largest number of bulbs remaining lit
	B2 or B3	2	3

✓ D.	Bulb that was fused	Smallest number of bulbs remaining lit	Largest number of bulbs remaining lit
	B2 or B4	0	3

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,893

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

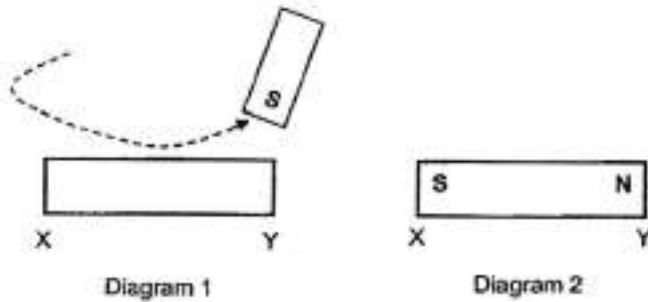
[Remove From Test](#)

Question 19

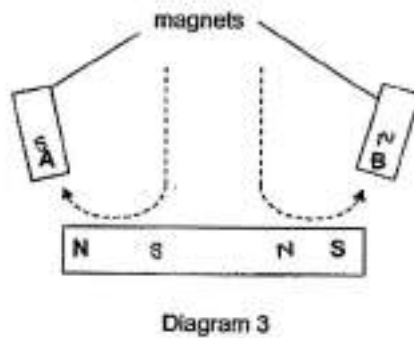
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

A steel bar XY was magnetised using the "stroke" method as shown in Diagram 1 below. Diagram 2 shows the magnetic poles of XY after it was magnetised.



Another steel bar below was magnetised using two magnets as shown in Diagram 3.



Identify the poles at A and B used to magnetise the steel bar respectively.

- A.

Poles at A	Poles at B
N	S
- ✓ B.

Poles at A	Poles at B
S	N
- C.

Poles at A	Poles at B
N	N
- D.

Poles at A	Poles at B
S	S

Question Type: Multiple Choice

Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,901

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

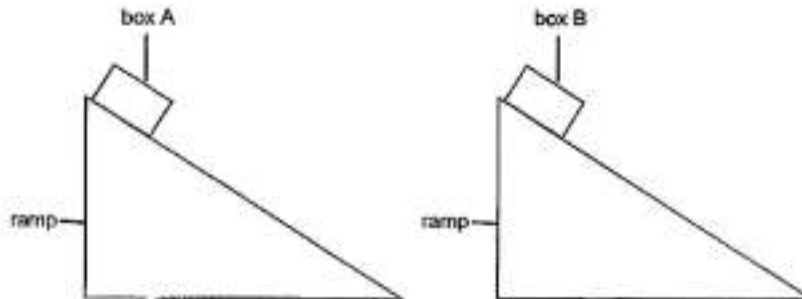
[Remove From Test](#)

Question 20

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Ali, Beth, Cailing, and Devi prepared the following set-ups using identical boxes A and B as shown below.



The boxes were placed at the same starting point on the ramps. They observed that box B would slide down the ramp but box A remained stationary.

The pupils made the following statements:

Ali	The gravitational force acting on both boxes was the same.
Beth	The gravitational force acting on box B was more than that of box A.
Cailing	The surface of the ramp where box A was placed on was smoother.
Devi	The frictional force between box B and the surface of the ramp was less than that of box A and the surface of the ramp.

Which of the pupils made the correct statements?

- A. Ali and Cailing
- ✓ B. Ali and Devi
- C. Beth and Cailing
- D. Beth and Devi

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,906

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

[Remove From Test](#)

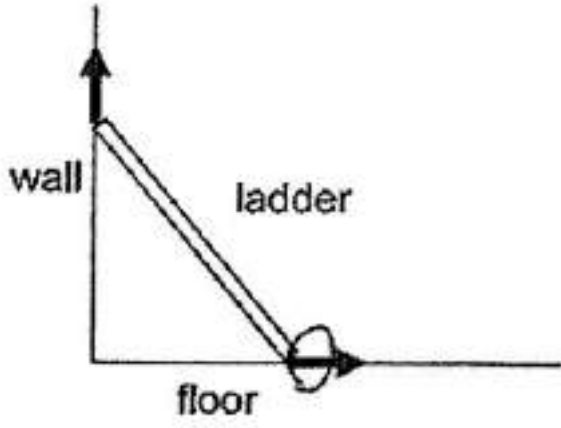
Question 21

Primary 6 Science » Primary 6 Science (Prelim)

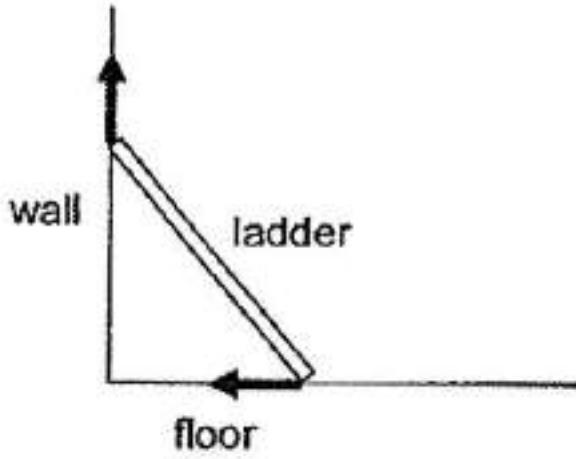
2 pts

Which of the following arrows shows the direction of frictional force acting on a ladder which is leaning against the wall?

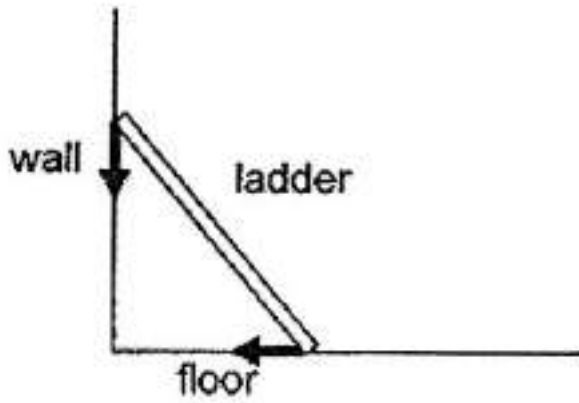
A.



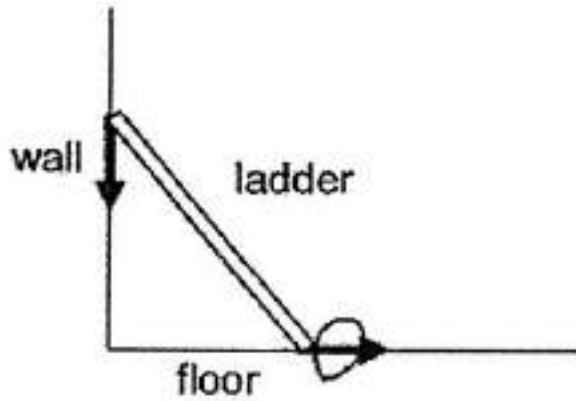
✓ B.



C.



D.



Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,913

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

[Remove From Test](#)

Question 22

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Stella carried out an experiment to find out which rubber ball, P, Q or R, travelled the furthest distance when it was rolled down the same ramp as shown below. The rubber balls were identical in size but of different masses.



For each ball, she repeated the experiment three times. She recorded the distance travelled by each ball in the table below. However, she did not carry out a fair test when conducting the experiment with ball R.

	Distance travelled by balls (cm)			
	1 st try	2 nd try	3 rd try	Average
P	141	143	146	143.3
Q	183	184	180	182.3
R	90	125	680	142.5

Based on the results of the above experiment, which of the following statements is/are most likely to be true?

- A The amount of gravitational force acting on ball Q was the least.
- B The way she released ball R was not the same for all the three tries.
- C Ball R was released at different positions on the ramp at each repeated experiment.

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,916

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

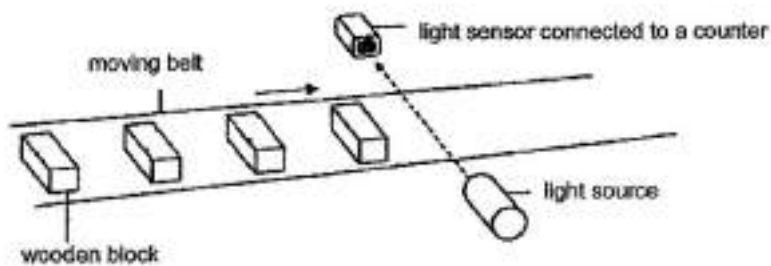
[Remove From Test](#)

Question 23

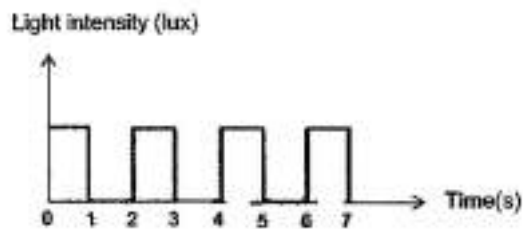
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

A light sensor is used to count the number of wooden blocks on a moving belt in a factory as shown in the set-up below.



The belt moves at a constant speed. The workers plotted the results in the graph shown below.



Based on the graph above, how many wooden blocks were counted in five seconds?

- ✓ A. 2
- B. 3
- C. 4
- D. 5

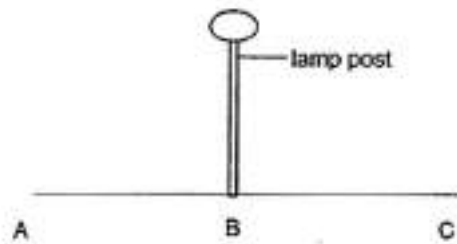
Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,919

Question 24

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

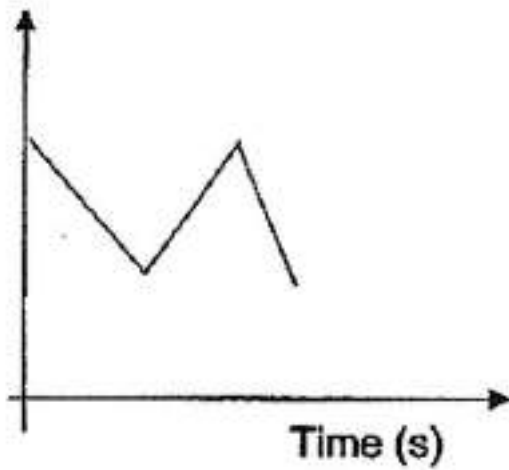
The diagram below shows a lamp post. The distance from A to B is identical to the distance from B to C. David walked under the lighted lamp post from B to C, then C to A passing B again. He increased his speed while walking from B to A.



Which one of the diagrams below shows the changes in the length of the boy's shadow over the period of time?

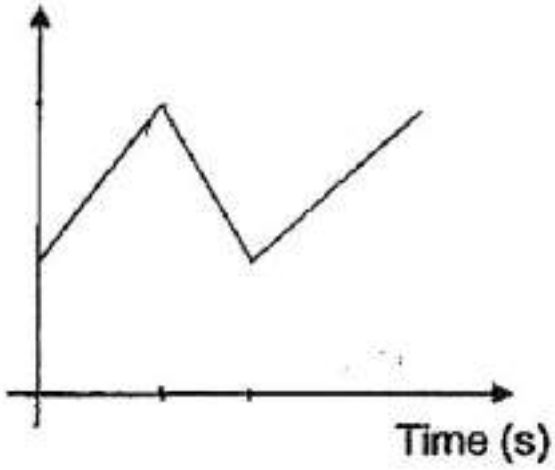
A.

Length of shadow (cm)



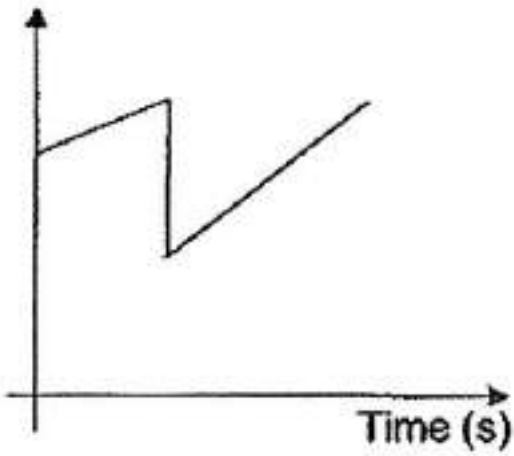
B.

Length of shadow (cm)



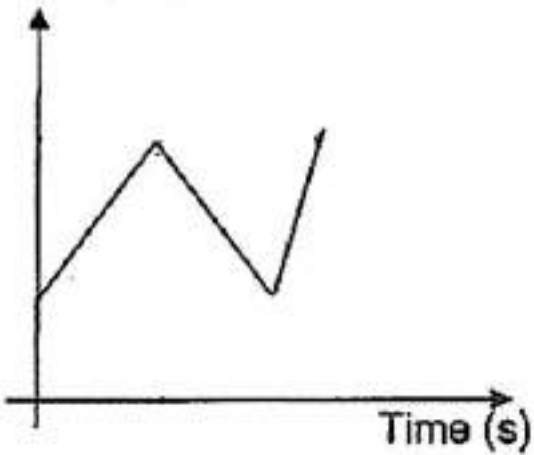
c.

Length of shadow (cm)



✓ D.

Length of shadow (cm)



Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,921

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇ Reorder](#)

[Remove From Test](#)

Question 25

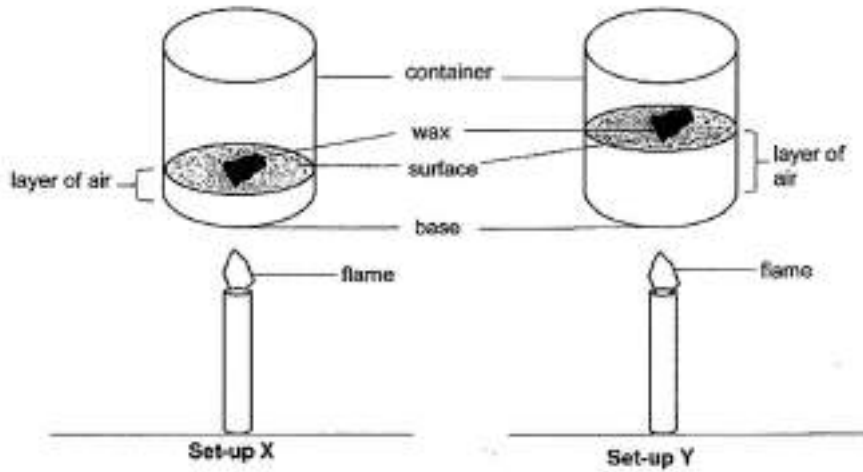
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Emma carried out an experiment with the two set-ups X and Y as shown below. She used identical containers and burners for the two set-ups.

In set-up X, she placed a blob of wax on a surface which was placed 5cm above the base of the container.

In set-up Y, she placed the same amount of wax on an identical surface. The surface was raised 15 cm above the base of the container as shown below.



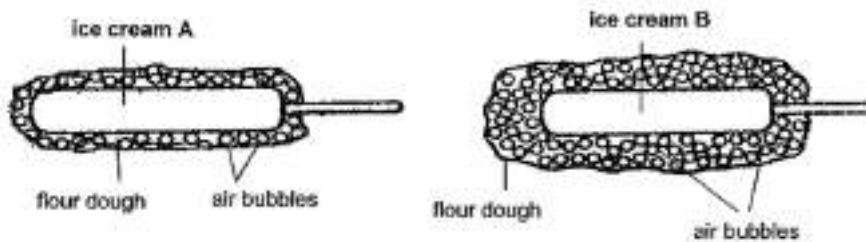
She recorded her observation in the table below.

Layer of air between wax and base of container (cm)	Time taken for wax to melt (s)
5	20
15	85

Based on the results of the experiment, Emma attempted to prepare fried ice cream. It is a dessert where coated ice cream is quickly deep fried to create a golden and crispy shell around the still cold ice cream.

She prepared the flour dough using a mixture of water, baking soda and flour. She coated the identical ice creams with different amounts of flour dough as shown below.

Then they were deep fried using the same amount of heat for ten seconds until golden brown.



Emma observed that one of the ice creams melted after ten seconds. Which one of the following is correct?

A.

Ice cream that melted	Reason
A	The flour dough is a good conductor of heat.

✓ B.

Ice cream that melted	Reason
A	There was less air in the dough. Thus, the ice cream gained heat faster.

C.

Ice cream that melted	Reason
B	The air in the air bubbles is a poor conductor of heat.

D.

Ice cream that melted	Reason
B	The flour dough has more air bubbles round the ice cream.

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,264,945

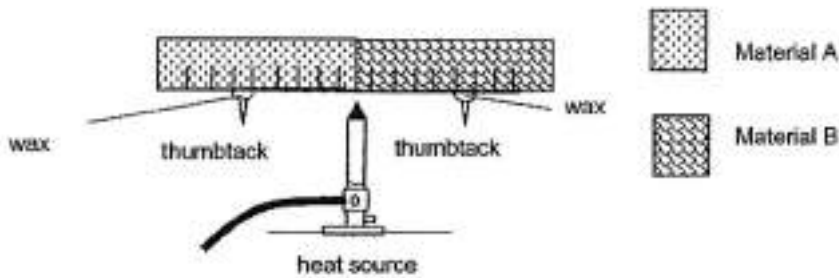
[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#) [Remove From Test](#)

Question 26

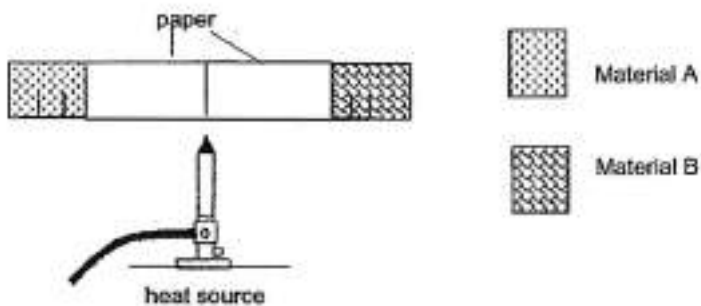
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Aislin prepared the set-up shown below using the same amount of wax to hold the identical thumbtacks on the materials A and B respectively. The materials are of identical length. The thumbtacks were placed at equal distance away from the heat source. Aislin observed the thumbtack on material B drop off first.



Next, she wrapped a piece of paper round materials A and B as shown below and put over a heat source. She observed the piece of paper after three minutes.



Which of the following provides the correct observation and explanation?

A.

Observation	Explanation
The paper on material A would burn.	Material A conducted heat to the paper more quickly.

✓ B.

Observation	Explanation
The paper on material A would	Material A conducted heat away from the paper more

burn.	slowly.
-------	---------

C. Observation	Explanation
The paper on material B would burn.	Material B conducted heat to the paper more quickly.

D. Observation	Explanation
The paper on material B would burn.	Material B conducted heat away from the paper more slowly.

Question Type: Multiple Choice

Randomize Answers: No

Date Added: Fri 8th Oct 2021

Last Modified: N/A

QID#: 29,264,965

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

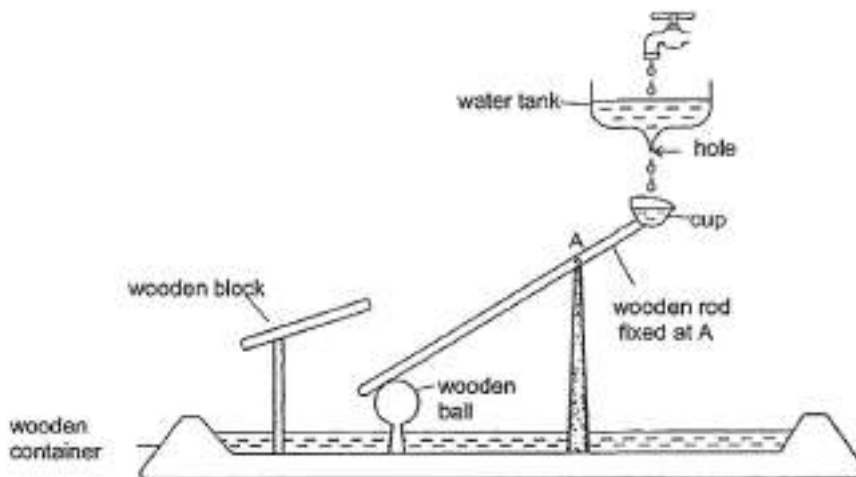
[Remove From Test](#)

Question 27

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Linda designed a model as shown below.



The cup is fixed onto a wooden rod which can move at pivot A. Water from a tank is dripped into the cup. When the cup is filled up with water, it moved down, causing the other end of the rod to hit against the wooden block.

Which of the following should Linda change to enable her model to produce a louder sound?

- A increase the size of the hole
- B increase the size of the wooden ball
- C change the wooden ball to a metal ball
- D increase the height of the tank above the wooden container

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,972

[↗ Answers](#) | [✎ Edit](#) | [📄 Duplicate](#) | [📌 Used In](#) | [⬇️ Reorder](#)

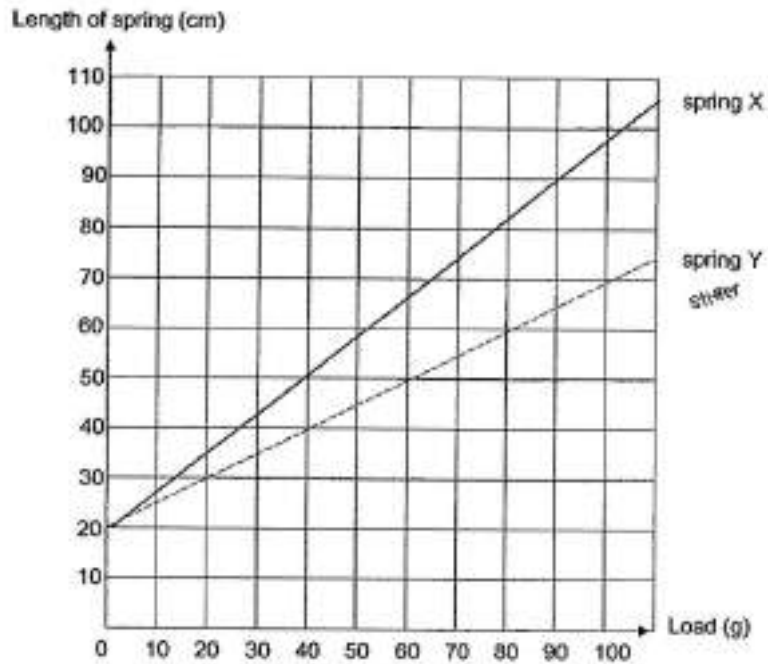
[Remove From Test](#)

Question 28

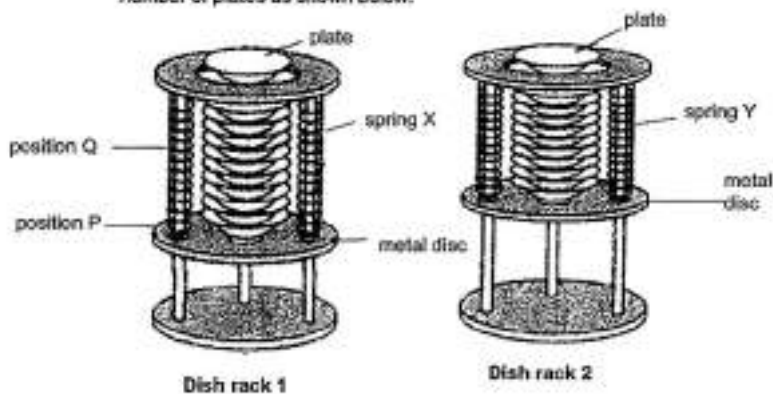
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

Trina conducted an experiment using springs X and Y. She hung different numbers of weights one at a time and recorded the length of the springs. Her results were shown in the graph below.



The two springs, X and Y, were used to make the two dish racks, which hold identical number of plates as shown below.



When Trina removed three plates from the top of dish rack 1, the metal disc moved up from P to Q. She also removed three plates from dish rack 2.

Based on the graph and the information provided, which of the following statement(s) is / are true when three plates were removed from the two dish racks?

- A The metal discs on both racks have gravitational potential energy and elastic potential energy.
- B The metal disc on dish rack 1 will have less gravitational potential energy than the metal disc in dish rack 2.
- C The metal discs for both racks moved up because the stretched springs exerted a pulling force on the metal discs.
- D The metal disc moved up as the weight of the plates is greater than the elastic spring force acting on the metal discs.

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,976

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

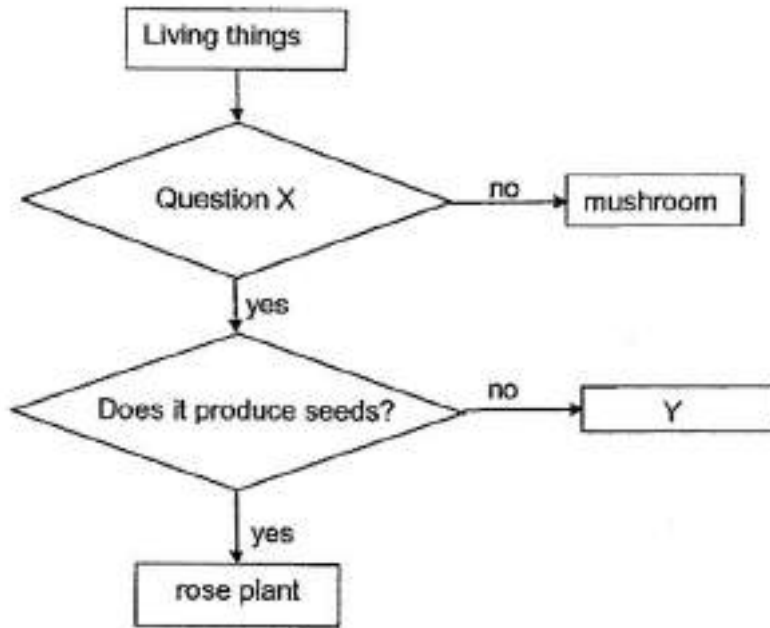
[Remove From Test](#)

Question 29

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Study the chart below.



Based on the chart above, fill in the blank with the correct answers.

Question X: _____ (0.5 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: Fri 8th Oct 2021
QID#: 29,264,980

Correctly answered feedback

Question X: can it make its own food

Incorrectly answered feedback

Question X: can it make its own food

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

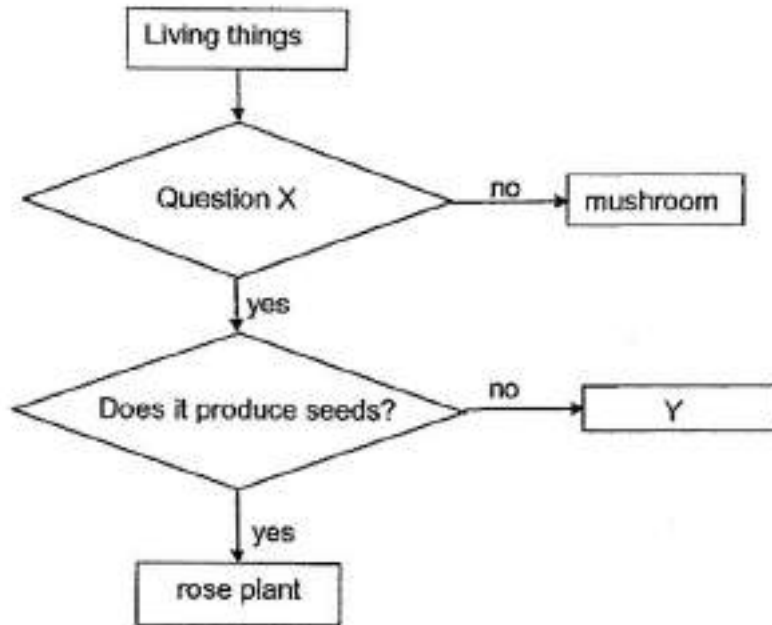
[Remove From Test](#)

Question 30

Primary 6 Science » Primary 6 Science (Prelim)

0.5 pts

Study the chart below.



Based on the chart above, fill in the blank with the correct answer.

Question Y: _____

Accepted answers:

✓ Bird nest fern

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,983

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

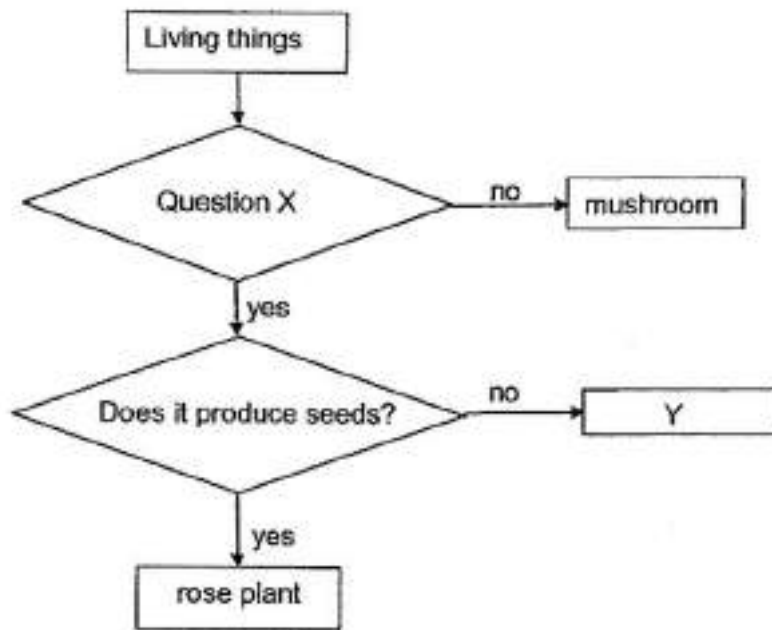
[Remove From Test](#)

Question 31

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

Study the chart below.



How does organism Y reproduce?

Accepted answers:

✓ spores

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,264,985

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

[Remove From Test](#)

Question 32

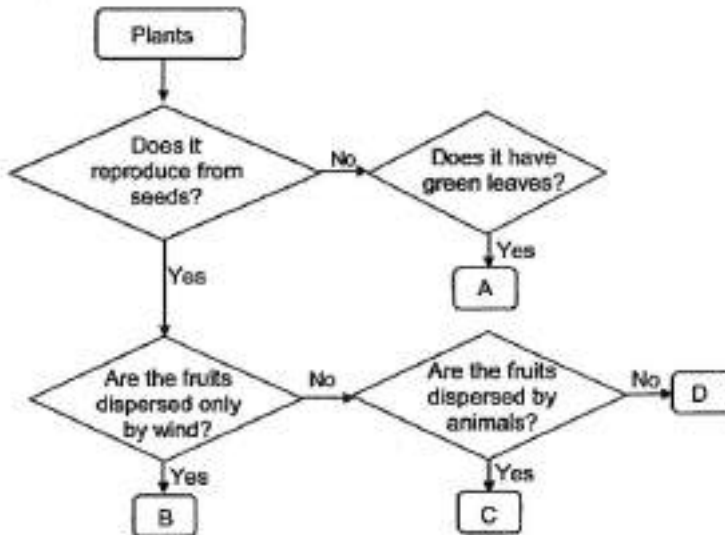
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram shows the characteristics of three fruits, P, Q and R, found in a park. A tick (✓) shows the presence of the characteristic of the fruits.

Fruit	Characteristic of fruit		
	Edible juicy flesh	Wing-like structure	Pod-like structure
P	✓		
Q		✓	
R			✓

Study the chart below.



Based on the information from the chart above, state one similarity between Plant B and Plant D. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,547

Correctly answered feedback

Both of them reproduce from seeds.

Incorrectly answered feedback

Both of them reproduce from seeds.

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

[Remove From Test](#)

Question 33

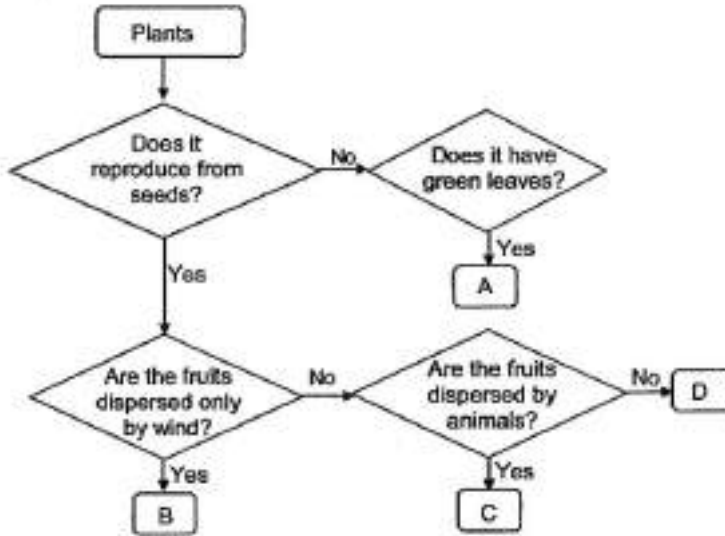
Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram shows the characteristics of three fruits, P, Q and R, found in a park. A tick (✓) shows the presence of the characteristic of the fruits.

Fruit	Characteristic of fruit		
	Edible juicy flesh	Wing-like structure	Pod-like structure
P	✓		
Q		✓	
R			✓

Study the chart below.



Based on the information from the table and the chart on the previous page, which plants, A, B, C and D, in the chart best represents plants that bear fruits P, Q and R?

Clue	Match
Fruit P: Plant _____ Points: +0.3 -0	C
Fruit Q: Plant _____ Points: +0.3 -0	B
Fruit R: Plant _____ Points: +0.4 -0	D

Question Type: Matching
 Shuffle Mode: Shuffle Matches Only
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,564

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

Question 34

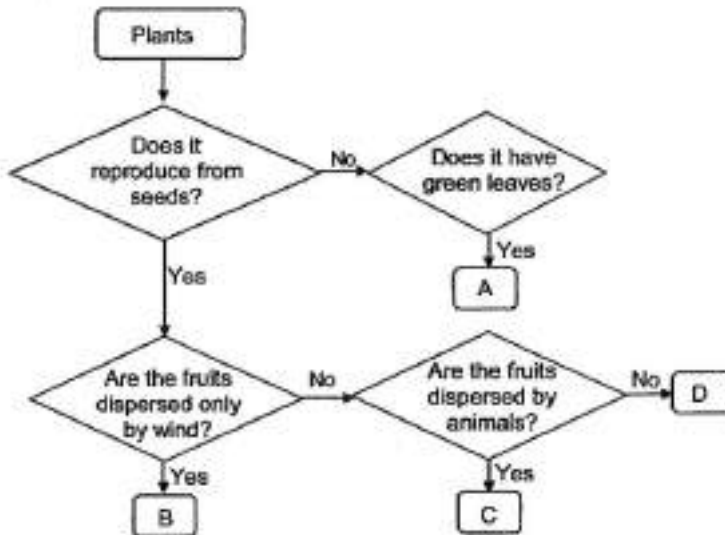
Primary 6 Science » Primary 6 Science (Prelim)

2 pts

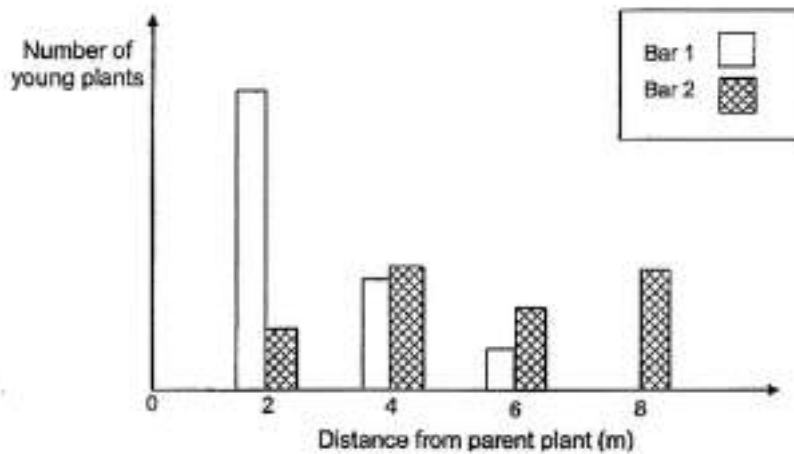
The diagram shows the characteristics of three fruits, P, Q and R, found in a park. A tick (✓) shows the presence of the characteristic of the fruits.

Fruit	Characteristic of fruit		
	Edible juicy flesh	Wing-like structure	Pod-like structure
P	✓		
Q		✓	
R			✓

Study the chart below.



The number of young plants that bear fruits P and R were found at various distances from their parent plants as shown in the graph below.



Based on the information above, which bar, 1 or 2, represents the results recorded for plants of fruit P. Explain your answer. [2]

Accepted answers:

- ✓ Bar 2
- ✓ 2

QID#: 29,269,595

Correctly answered feedback

Bar 2. The number of young plants of P are decreasing as the distance from the parent plant increases. The animals ate the thick juicy flesh of the fruit and passed but the indigestible seed in their droppings when animals moved away.

Incorrectly answered feedback

Bar 2. The number of young plants of P are decreasing as the distance from the parent plant increases. The animals ate the thick juicy flesh of the fruit and passed but the indigestible seed in their droppings when animals moved away.

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

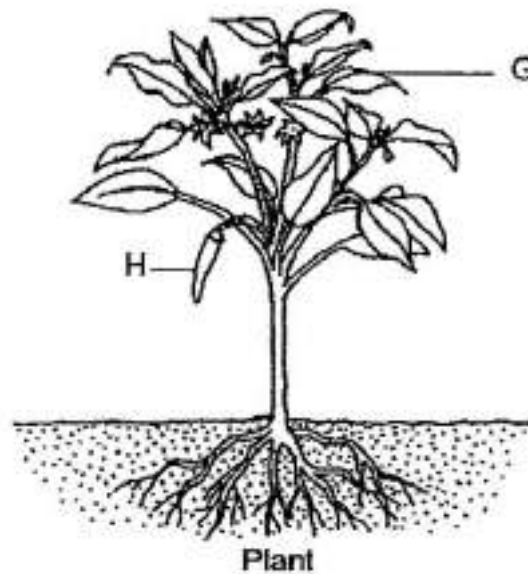
[Remove From Test](#)

Question 35

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram below shows a plant.



State the main function of part G. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,609

Correctly answered feedback

It traps light energy from the sun to make food for the plant.

Incorrectly answered feedback

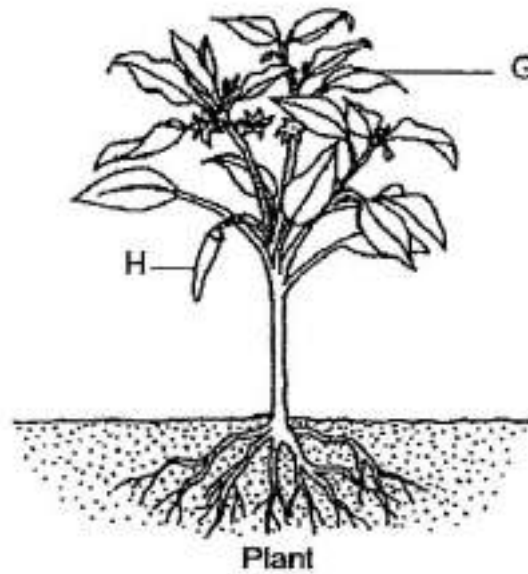
It traps light energy from the sun to make food for the plant.

Question 36

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows a plant.



State the part of the flower that part H developed from.

Accepted answers:

✓ ovary

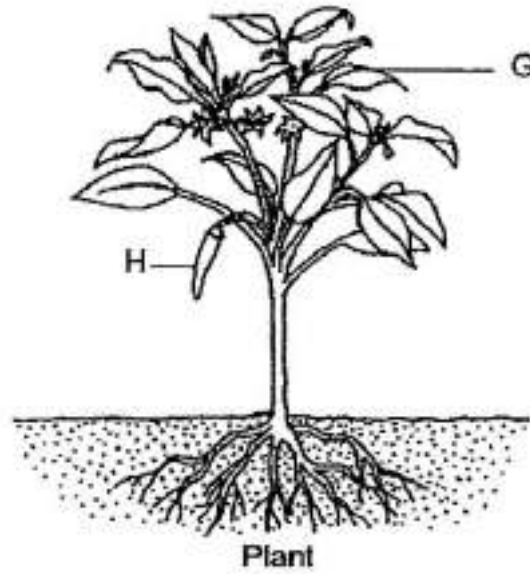
Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,622

Question 37

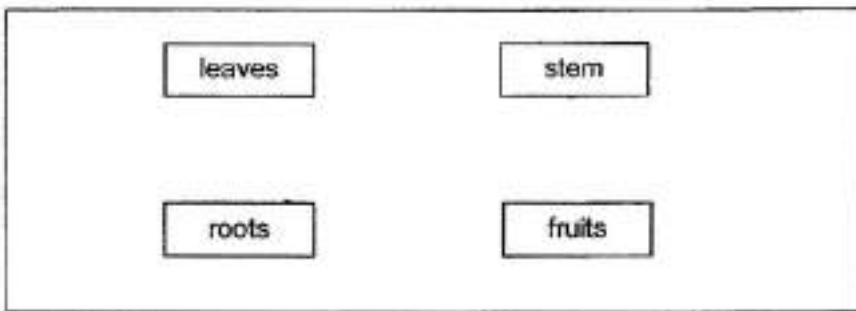
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram below shows a plant.



Four parts of the plant are listed below. Draw arrows (→) in the diagram below to show how food is transported in the plant. [1]



This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,636

Correctly answered feedback



Incorrectly answered feedback



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

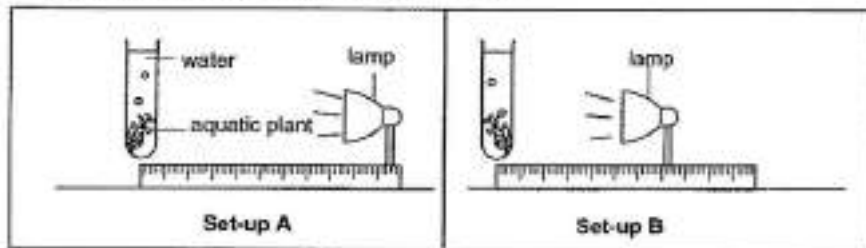
[Remove From Test](#)

Question 38

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Ali wanted to find out how the distance between the lamp and the test-tube of an aquatic plant would affect the number of bubbles produced by the plant. He prepared two set-ups, A and B, as shown below.



He counted the number of bubbles produced per minute for both set-ups. His results are as shown.

Set-up	Number of bubbles produced per minute
A	17
B	33

Based on Ali's results, explain how the distance between the lamp and the test-tube of the aquatic plant affect the rate of photosynthesis. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,672

Correctly answered feedback

As the distance between the lamp and the test tube increases the aquatic of light received by the plant decreased. Thus, the rate of photosynthesis will decrease, producing bubbles.

Incorrectly answered feedback

As the distance between the lamp and the test tube increases the aquatic of light received by the plant decreased. Thus, the rate of photosynthesis will decrease, producing bubbles.

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

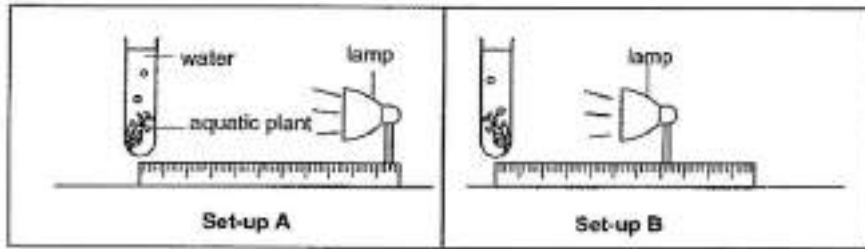
[Remove From Test](#)

Question 39

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Ali wanted to find out how the distance between the lamp and the test-tube of an aquatic plant would affect the number of bubbles produced by the plant. He prepared two set-ups, A and B, as shown below.



He counted the number of bubbles produced per minute for both set-ups. His results are as shown.

Set-up	Number of bubbles produced per minute
A	17
B	33

State two variables that Ali has to keep constant when conducting his experiment. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,679

Correctly answered feedback

- 1) Intensity of light from the lamp.
- 2) Number of plants.

Incorrectly answered feedback

- 1) Intensity of light from the lamp.
- 2) Number of plants.

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

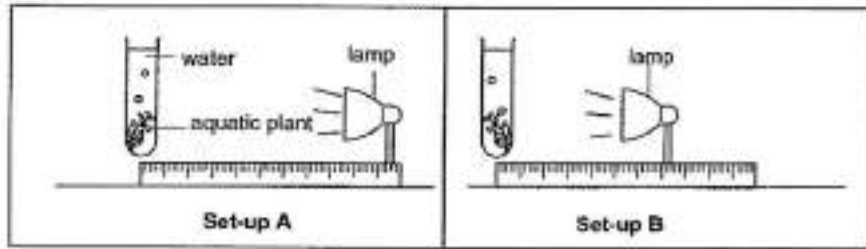
[Remove From Test](#)

Question 40

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Ali wanted to find out how the distance between the lamp and the test-tube of an aquatic plant would affect the number of bubbles produced by the plant. He prepared two set-ups, A and B, as shown below.



He counted the number of bubbles produced per minute for both set-ups. His results are as shown.

Set-up	Number of bubbles produced per minute
A	17
B	33

Ali recorded the initial mass of the aquatic plants before the experiment and the final mass of the aquatic plants in each set-up after three days. Both lamps were switched on continuously for three days. Which plant would have a greater increase in mass? Explain your answer. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,702

Correctly answered feedback

Set-up B. The lamp was placed at a closer distance to the plant in B than in A. Thus, the light intensity in B would be higher than A and the plant in B can trap more light to make more food and photosynthesis faster allowing its mass to increased more and stored as starch in the plant.

Incorrectly answered feedback

Set-up B. The lamp was placed at a closer distance to the plant in B than in A. Thus, the light intensity in B would be higher than A and the plant in B can trap more light to make more food and photosynthesis faster allowing its mass to increased more and stored as starch in the plant.

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

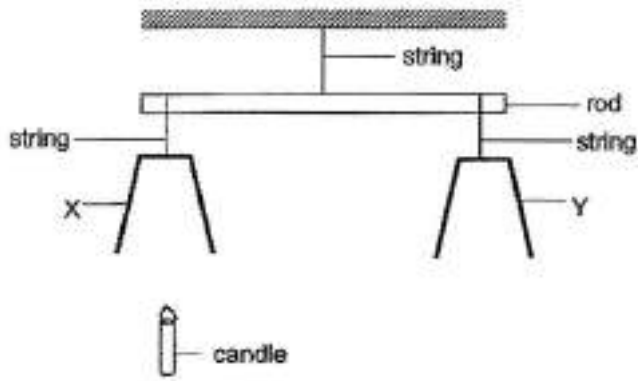
[Remove From Test](#)

Question 41

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Two identical cups, X and Y, were balanced on a rod. A burning candle was placed below cup X as shown below.



Would the rod tilt downwards towards X, remain balanced or tilt downwards toward Y? Explain your answer. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,763

Correctly answered feedback

Tilt downwards to Y. Air around the candle will gain heat from the flame and rise up to go into X, pushing X up. Thus, the rod will tilt to Y.

Incorrectly answered feedback

Tilt downwards to Y. Air around the candle will gain heat from the flame and rise up to go into X, pushing X up. Thus, the rod will tilt to Y.

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

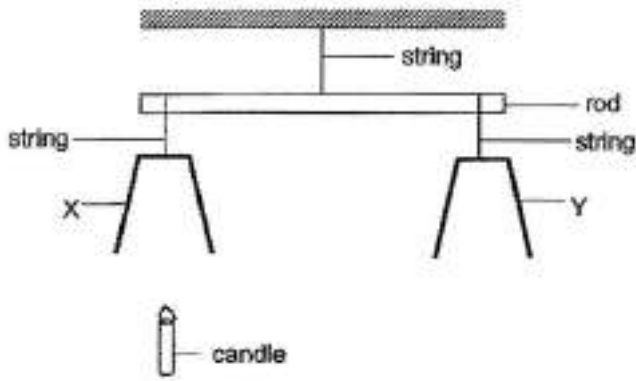
[Remove From Test](#)

Question 42

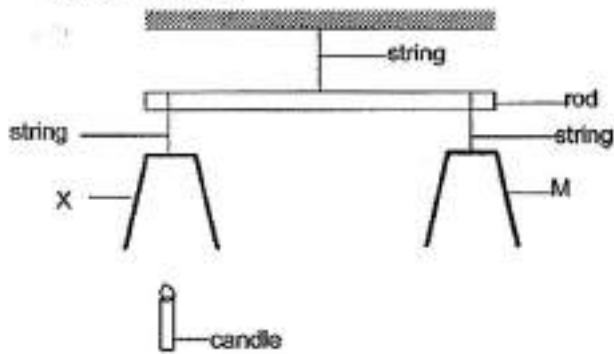
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Two identical cups, X and Y, were balanced on a rod. A burning candle was placed below cup X as shown below.



Changes were made to the set up by replacing cup Y with cup M, made of a different material.



It was observed that the rod was balanced only when the candle was placed under cup X. Explain the observation. [2]

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,772

Correctly answered feedback

Cup X has a greater mass than M. At the start of the experiment. The rod would tilt downward to X. Thus, the rising of air around the candle was able to push X.

Incorrectly answered feedback

Cup X has a greater mass than M. At the start of the experiment. The rod would tilt downward to X. Thus, the rising of air around the candle was able to push X.

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

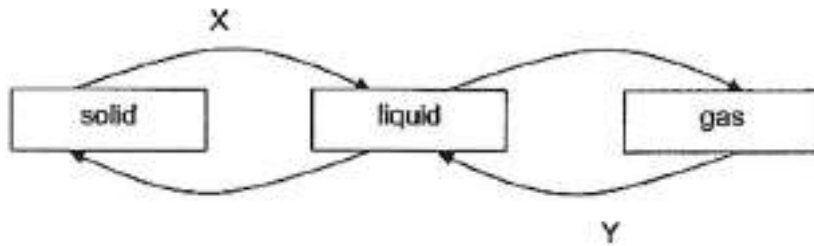
[Remove From Test](#)

Question 43

Primary 6 Science » Primary 6 Science (Prelim)

0.5 pts

The diagram below shows the change of state of water.



Name the process X.

Accepted answers:

✓ Melting

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,774

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

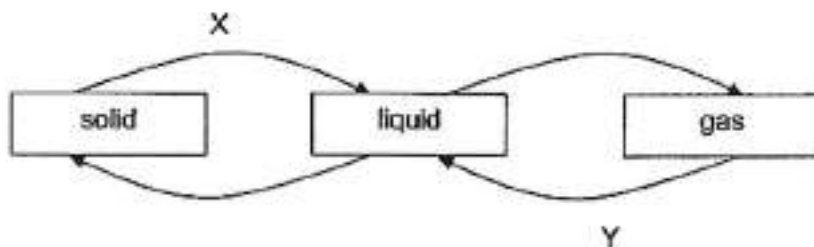
[Remove From Test](#)

Question 44

Primary 6 Science » Primary 6 Science (Prelim)

0.5 pts

The diagram below shows the change of state of water.



Name the process Y.

Accepted answers:

✓ condensation

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,779

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

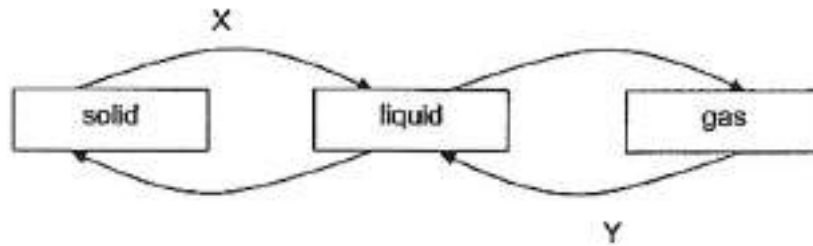
[Remove From Test](#)

Question 45

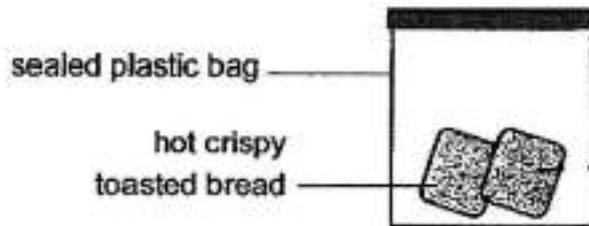
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram below shows the change of state of water.



Michelle bought some slices of hot crispy toasted bread for her grandfather and then walked home.



When she reached home, she found that the slices of crispy toasted bread were damp. Explain her observation. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,791

Correctly answered feedback

Water vapour inside the sealed plastic bag gained heat from the hot bread and increased in temperature. The vapour then lost heat to the cooler inner surface of the sealed plastic bag and condensed to form tiny water droplets. Which slid down the plastic bag and dripped on the bread.

Incorrectly answered feedback

Water vapour inside the sealed plastic bag gained heat from the hot bread and increased in temperature. The vapour then lost heat to the cooler inner surface of the sealed plastic bag and condensed to form tiny water droplets. Which slid down the plastic bag and dripped on the bread.

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

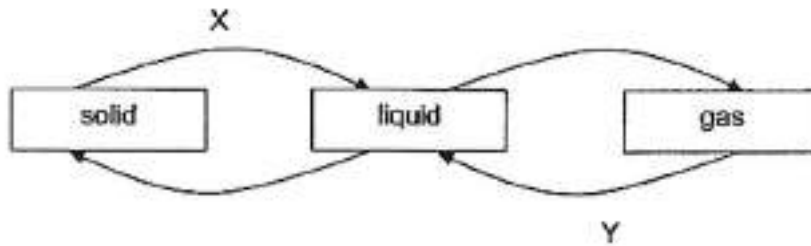
[Remove From Test](#)

Question 46

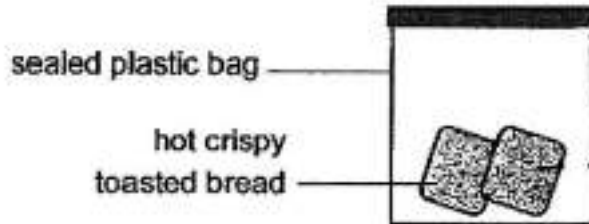
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram below shows the change of state of water.



Michelle bought some slices of hot crispy toasted bread for her grandfather and then walked home.



Suggest what Michelle could have done to ensure the slices of toasted bread remained crispy by the time she reached home. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,797

Correctly answered feedback

Open the sealed plastic bag.

Incorrectly answered feedback

Open the sealed plastic bag.

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

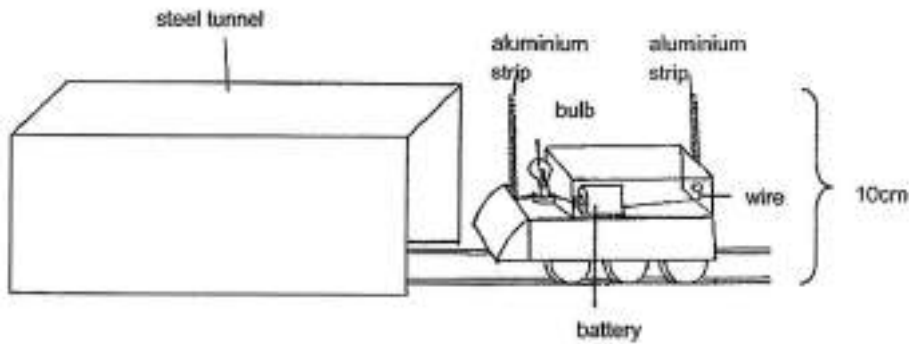
[Remove From Test](#)

Question 47

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Jason made a toy train and a steel tunnel. Both had a height of 10 cm. The aluminium strips were attached to the toy train. The diagram below shows his toy train set.



Jason observed that the light bulb on the toy train only lit up when the train was moving completely under the steel tunnel.

Explain why the bulb on the toy train only lit up when it was moving completely in the steel tunnel. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,809

Correctly answered feedback

When the train moved completely in to the steel tunnel, the aluminium strips touched the steel tunnel and closed the gap in the circuit. Thus, the circuit was closed and electricity could flow through the circuit, enabling the bulb to light up.

Incorrectly answered feedback

When the train moved completely in to the steel tunnel, the aluminium strips touched the steel tunnel and closed the gap in the circuit. Thus, the circuit was closed and electricity could flow through the circuit, enabling the bulb to light up.

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

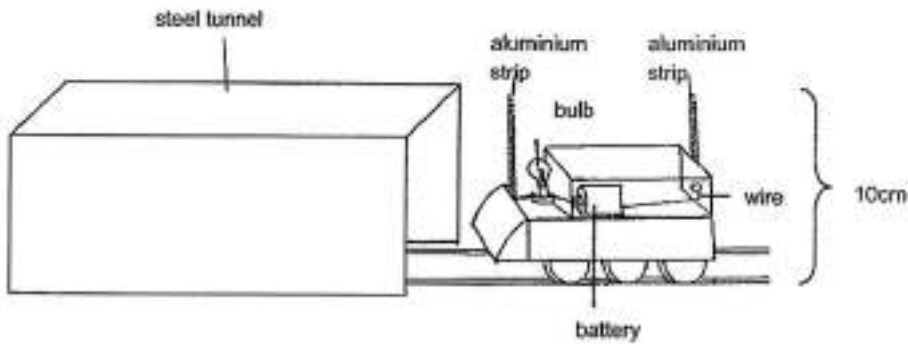
[Remove From Test](#)

Question 48

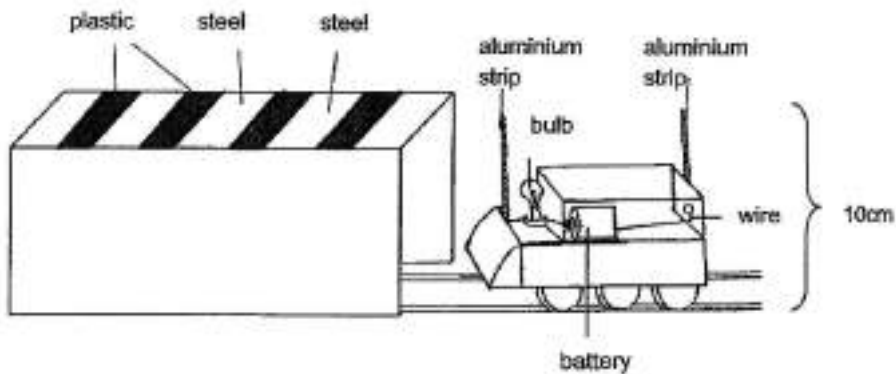
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Jason made a toy train and a steel tunnel. Both had a height of 10 cm. The aluminium strips were attached to the toy train. The diagram below shows his toy train set.



Jason replaced the steel tunnel with another tunnel that was made of plastic and steel as shown in the diagram below. The height of the new tunnel was also 10 cm.



Describe what Jason would observe of the bulb while the same toy train was moving through the new tunnel shown above. [1]

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,817

Correctly answered feedback

The bulb will flash, and the light bulb will light up and then not light up then light up again and soon.

Incorrectly answered feedback

The bulb will flash, and the light bulb will light up and then not light up then light up again and soon.

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

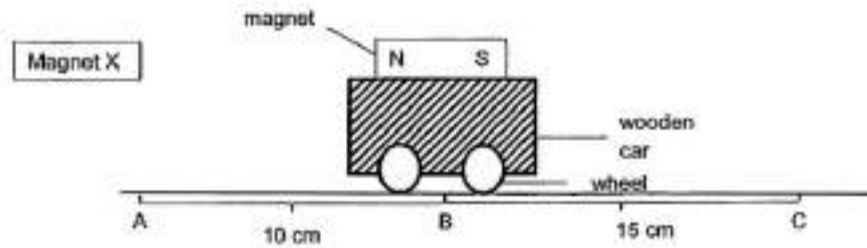
[Remove From Test](#)

Question 49

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The toy car below moves along the wooden plank.



When magnet X is placed at position A, the wooden car moved from position A to B. Give a reason for his observation. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,823

Correctly answered feedback

X's north pole and the magnet on the car's north pole was facing each other and repelled, pushing the car to B.

Incorrectly answered feedback

X's north pole and the magnet on the car's north pole was facing each other and repelled, pushing the car to B.

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

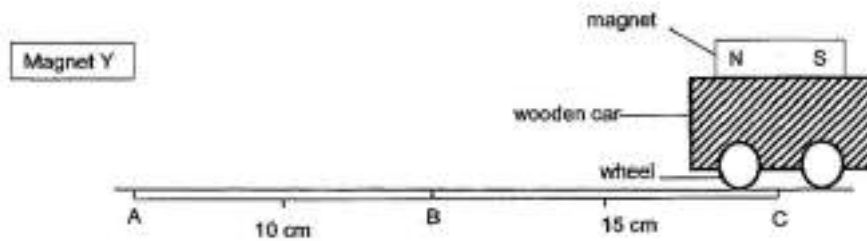
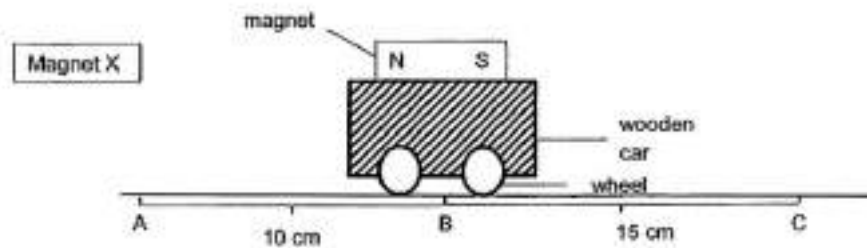
[Remove From Test](#)

Question 50

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The toy car below moves along the wooden plank.



The wooden car was placed at position C. When magnet Y was placed at position A, the wooden car moved from position C to A. Based on his observations, which magnet, X or Y, is a stronger magnet. Explain your answer. [2]

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,833

Correctly answered feedback

Thus, Y exerted a greater magnetic force of attraction than the force of repulsion exerted by X on the magnet on the car.

Incorrectly answered feedback

Thus, Y exerted a greater magnetic force of attraction than the force of repulsion exerted by X on the magnet on the car.

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

[Remove From Test](#)

Question 51

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Ashlynn rubbed her eraser on a piece of paper. She saw some eraser shavings on the piece of paper.

State another observation she would made of the eraser. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay

Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,838

Correctly answered feedback

The eraser will decrease in size.

Incorrectly answered feedback

The eraser will decrease in size.

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

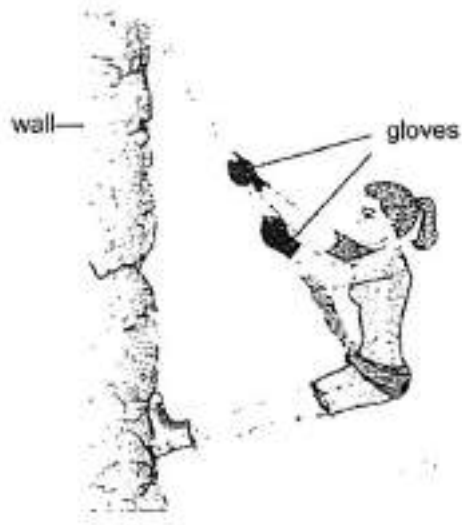
[Remove From Test](#)

Question 52

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

The diagram below shows Ashlynn doing abseiling where she was going down a vertical wall using a rope.



Ashlynn said wearing gloves to pull on the rope while going down the wall would protect her hand. Explain why that was so. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,846

Correctly answered feedback

The gloves prevent her palms from getting cut due to friction between her palms and the rope.

Incorrectly answered feedback

The gloves prevent her palms from getting cut due to friction between her palms and the rope.

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

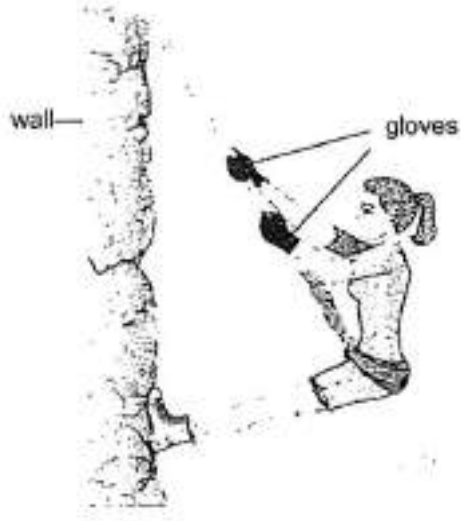
[Remove From Test](#)

Question 53

Primary 6 Science » Primary 6 Science (Prelim)

1 pt

The diagram below shows Ashlynn doing abseiling where she was going down a vertical wall using a rope.



Name another force that was acting on Ashlynn.

Accepted answers:

✓ Gravitation Force

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,851

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

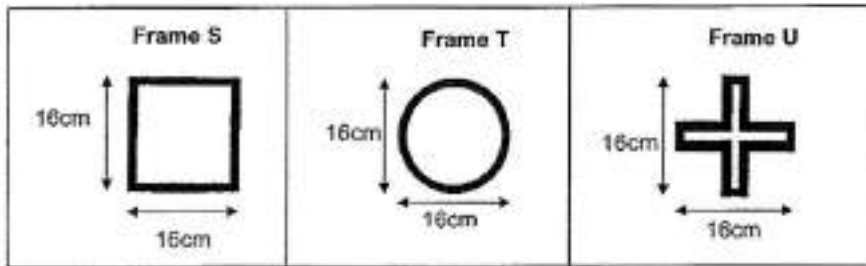
[Remove From Test](#)

Question 54

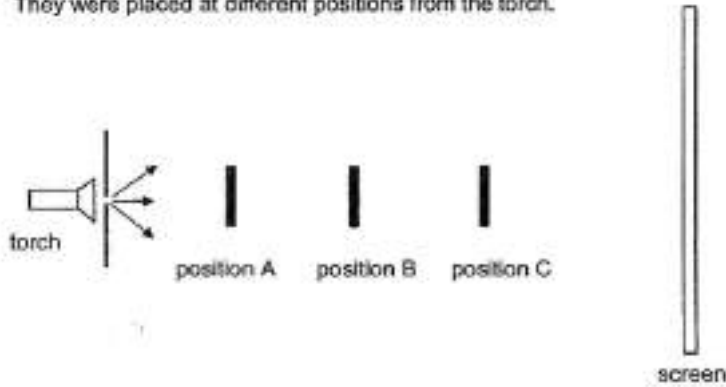
Primary 6 Science » Primary 6 Science (Prelim)

1 pt

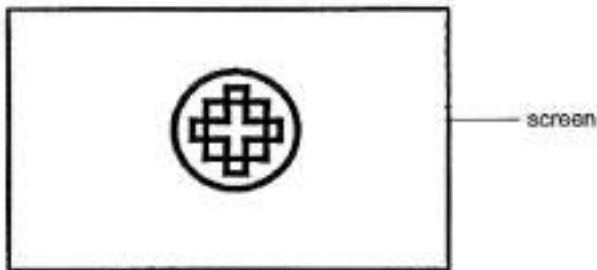
Kelvin had three wooden frames, S, T and U.



The set-up below shows light shining on the three wooden frames, S, T and U. They were placed at different positions from the torch.



The diagram below shows the shadow of the objects on the screen.



Which wooden frame, S, T or U, was at position C? (1 mark)

Accepted answers:

- ✓ S
- ✓ wooden frame S

Question Type: Free Text
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,860

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

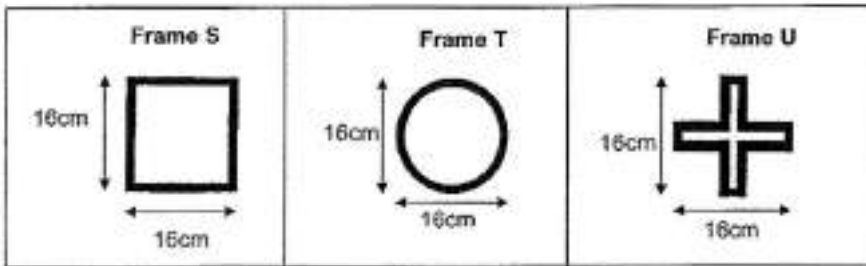
[Remove From Test](#)

Question 55

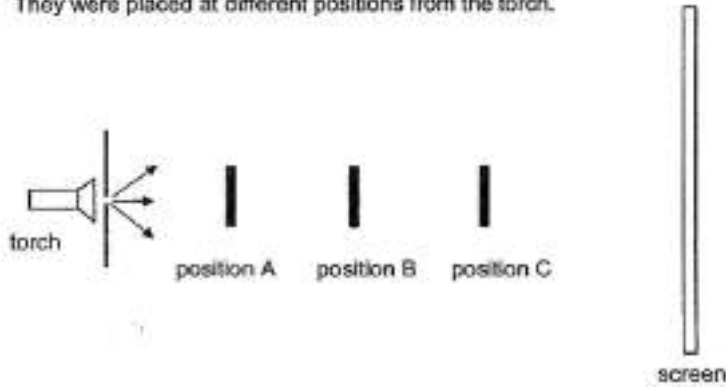
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

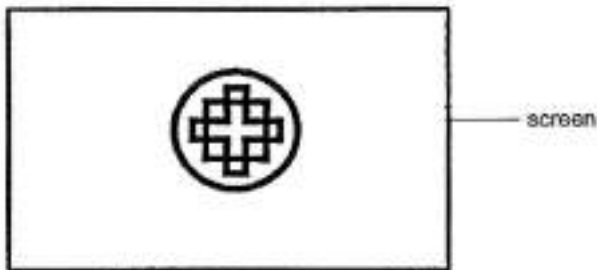
Kelvin had three wooden frames, S, T and U.



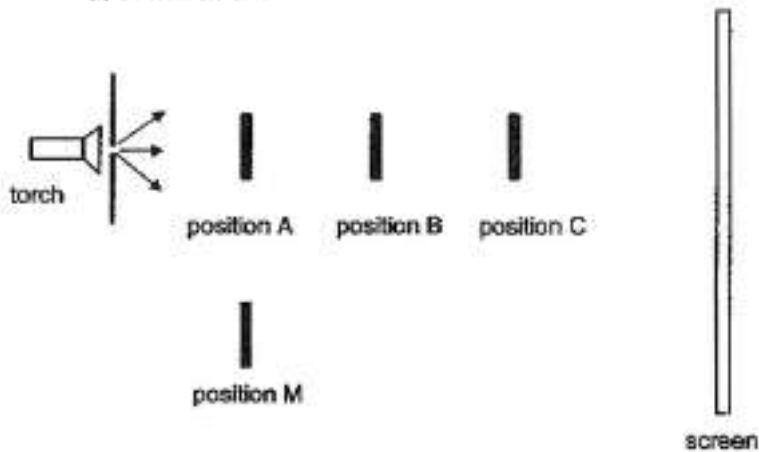
The set-up below shows light shining on the three wooden frames, S, T and U. They were placed at different positions from the torch.



The diagram below shows the shadow of the objects on the screen.



Another piece of wood measuring 16 cm x 16 cm is placed at position M as shown below.



Will Kelvin still be able to observe the shadow that was cast on the screen earlier? Explain your answer. (1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,870

Correctly answered feedback

Yes as light travels in a straight line, the other piece of wood at M did not block light to form a shadow.

Incorrectly answered feedback

Yes as light travels in a straight line, the other piece of wood at M did not block light to form a shadow.

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

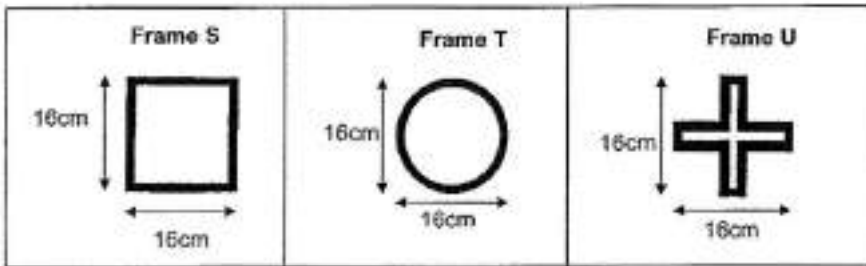
[Remove From Test](#)

Question 56

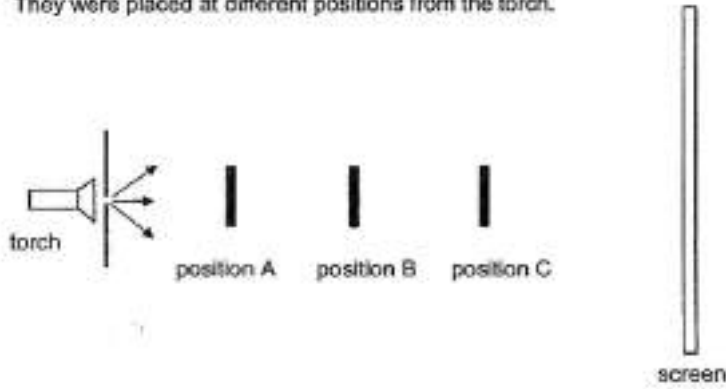
Primary 6 Science » Primary 6 Science (Prelim)

1 pt

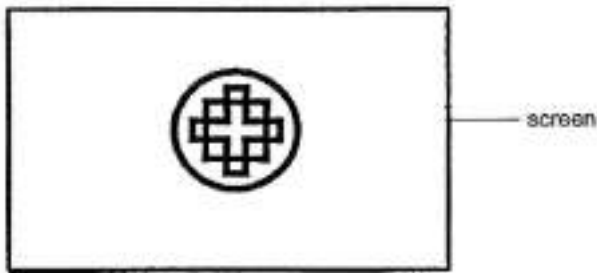
Kelvin had three wooden frames, S, T and U.



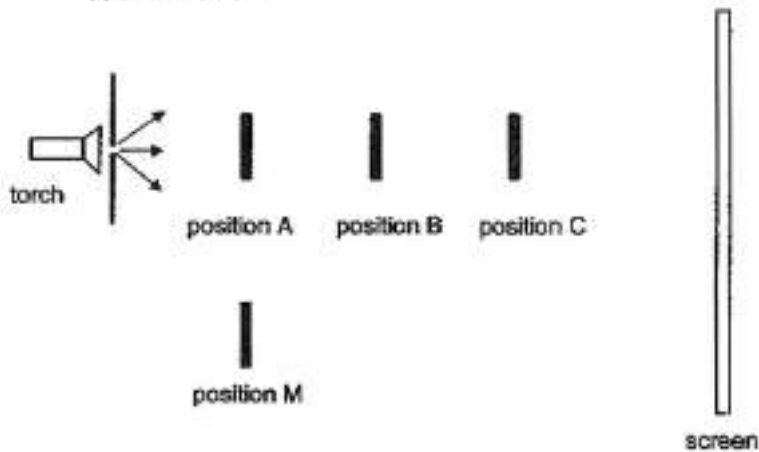
The set-up below shows light shining on the three wooden frames, S, T and U. They were placed at different positions from the torch.



The diagram below shows the shadow of the objects on the screen.

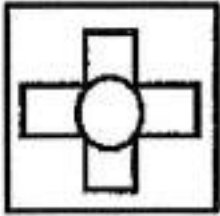


Another piece of wood measuring 16 cm x 16 cm is placed at position M as shown below.

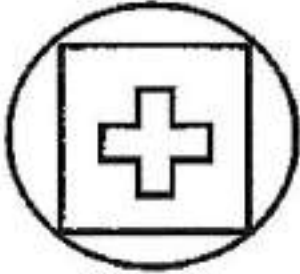


Which of the shadows will Kelvin observe if frames S, U and T are placed at positions A, B and C respectively?

✓ A.



B.



Question Type: Multiple Choice
Randomize Answers: No
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,885

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

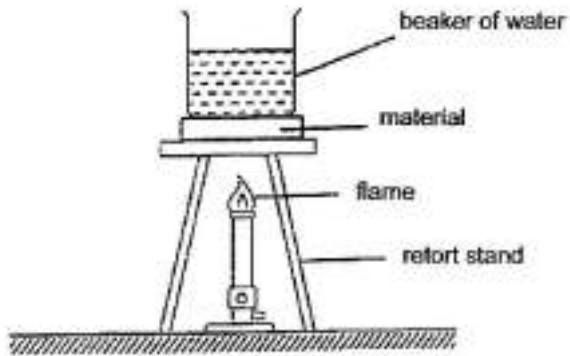
[Remove From Test](#)

Question 57

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

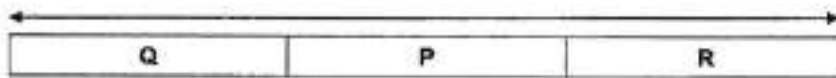
Martha used the set-up below to find out the heat conductivity of materials P, Q and R. The materials were of the same length and thickness. They were placed below a beaker of water with the same amount of heat applied to the set-ups.



The heat conductivity of materials P, Q and R is as follows.

poorest heat conductor

best heat conductor



She recorded the time taken for the water in each set up to boil in the table below.

Materials	Time taken for water to start boiling (minutes)
P	10
Q	10
R	10

Martha's teacher told her that her experiment was not a fair test as the time taken for water to start boiling should not be 10 minutes for all the three containers as the heat conductivity of the materials are different.

Identify one of the constant variables which was not kept the same during the experiment and describe what she could have done to arrive at the result shown in the table above. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,893

Correctly answered feedback

She could put the greatest amount of water in the beaker when R was used and the amount of water in the beaker was the least when Q was used.

Incorrectly answered feedback

She could put the greatest amount of water in the beaker when R was used and the amount of water in the beaker was the least when Q was used.

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

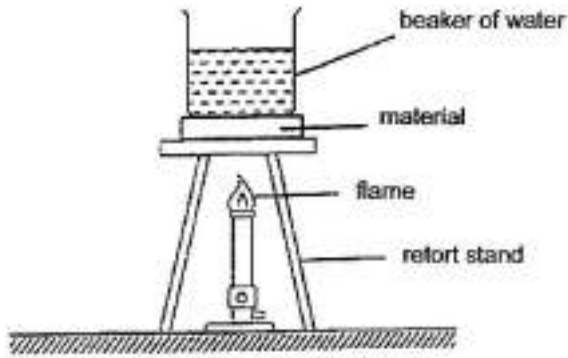
[Remove From Test](#)

Question 58

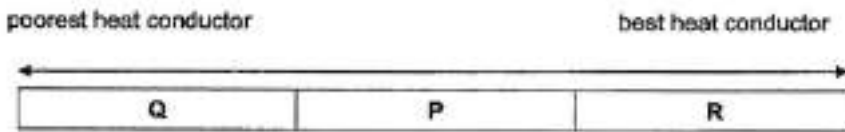
Primary 6 Science » Primary 6 Science (Prelim)

0.5 pts

Martha used the set-up below to find out the heat conductivity of materials P, Q and R. The materials were of the same length and thickness. They were placed below a beaker of water with the same amount of heat applied to the set-ups.



The heat conductivity of materials P, Q and R is as follows.



She recorded the time taken for the water in each set up to boil in the table below.

Materials	Time taken for water to start boiling (minutes)
P	10
Q	10
R	10

Martha's teacher told her that her experiment was not a fair test as the time taken for water to start boiling should not be 10 minutes for all the three containers as the heat conductivity of the materials are different.

What would be the temperature of water if Martha continued to heat the beakers of boiling water for another five minutes?

Material	Temperature of water (°C)
P	

Accepted answers:

- ✓ 100 degree celcius
- ✓ 100 degrees celcius

Question Type: Free Text
 Date Added: Fri 8th Oct 2021
 Last Modified: Fri 8th Oct 2021
 QID#: 29,269,910

Correctly answered feedback

100°C

Incorrectly answered feedback

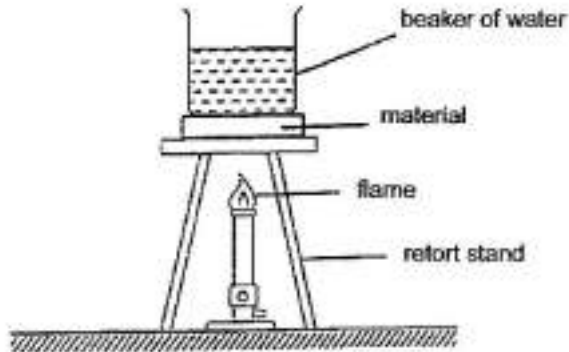
100°C

Question 59

Primary 6 Science » Primary 6 Science (Prelim)

0.3 pts

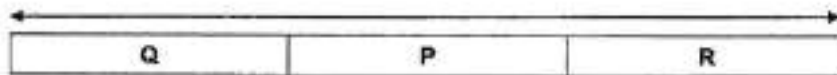
Martha used the set-up below to find out the heat conductivity of materials P, Q and R. The materials were of the same length and thickness. They were placed below a beaker of water with the same amount of heat applied to the set-ups.



The heat conductivity of materials P, Q and R is as follows.

poorest heat conductor

best heat conductor



She recorded the time taken for the water in each set up to boil in the table below.

Materials	Time taken for water to start boiling (minutes)
P	10
Q	10
R	10

Martha's teacher told her that her experiment was not a fair test as the time taken for water to start boiling should not be 10 minutes for all the three containers as the heat conductivity of the materials are different.

What would be the temperature of water if Martha continued to heat the beakers of boiling water for another five minutes?

Materials	Temperature of water (°C)
Q	

Accepted answers:

- ✓ 100 degree celcius
- ✓ 100 degrees celcius

Question Type: Free Text
 Date Added: Fri 8th Oct 2021
 Last Modified: Fri 8th Oct 2021
 QID#: 29,269,921

Correctly answered feedback

100°C

Incorrectly answered feedback

100°C

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

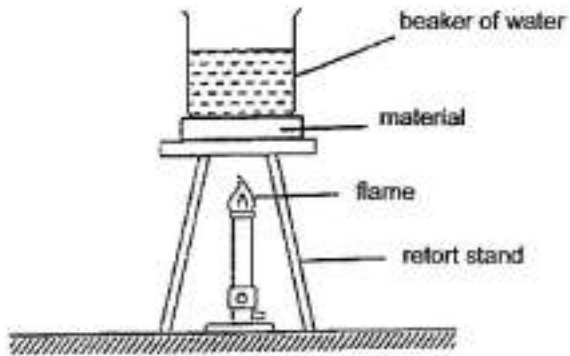
[Remove From Test](#)

Question 60

Primary 6 Science » Primary 6 Science (Prelim)

0.2 pts

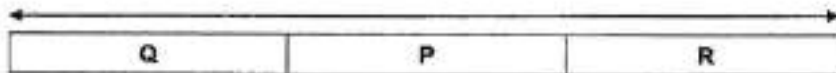
Martha used the set-up below to find out the heat conductivity of materials P, Q and R. The materials were of the same length and thickness. They were placed below a beaker of water with the same amount of heat applied to the set-ups.



The heat conductivity of materials P, Q and R is as follows.

poorest heat conductor

best heat conductor



She recorded the time taken for the water in each set up to boil in the table below.

Materials	Time taken for water to start boiling (minutes)
P	10
Q	10
R	10

Martha's teacher told her that her experiment was not a fair test as the time taken for water to start boiling should not be 10 minutes for all the three containers as the heat conductivity of the materials are different.

What would be the temperature of water if Martha continued to heat the beakers of boiling water for another five minutes?

Materials	Temperature of water (°C)
R	

Accepted answers:

- ✓ 100 degree Celcius
- ✓ 100 degrees Celcius

Question Type: Free Text
 Date Added: Fri 8th Oct 2021
 Last Modified: N/A
 QID#: 29,269,938

Correctly answered feedback

100°C

Incorrectly answered feedback

100°C

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

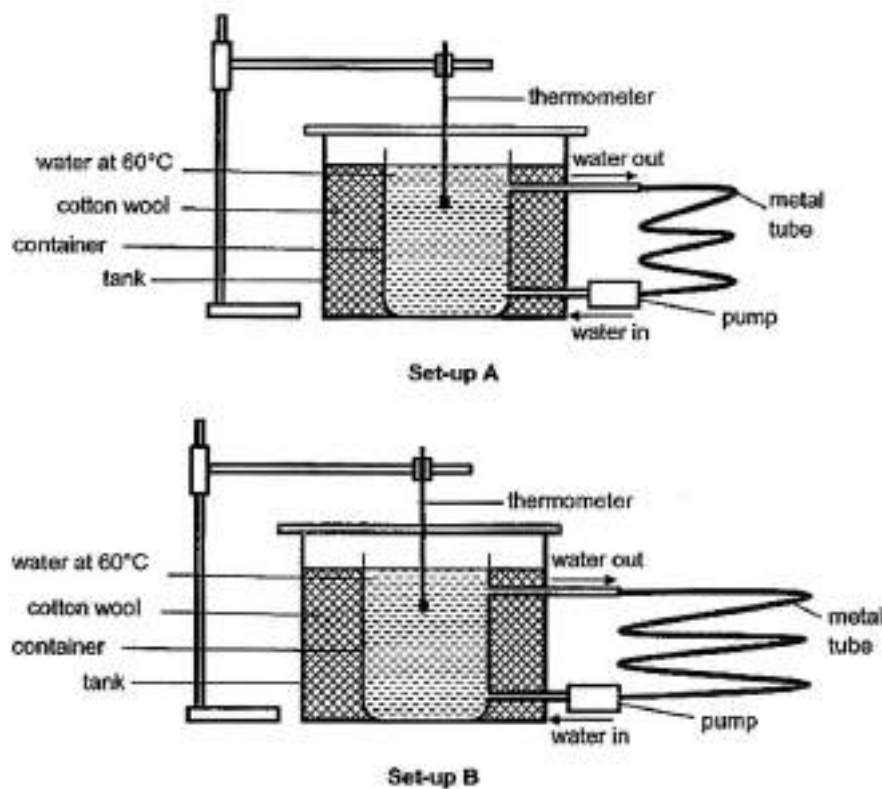
[Remove From Test](#)

Question 61

Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Two identical containers were each filled with three litres of water at 60°C. Each container was then placed in identical larger tanks filled with cotton wool. A tube and a pump were attached to each container to allow a continuous flow of water out of the container and then back again. Set-up A has a shorter tube than set-up B.



Given that the set-ups were placed together in the same room, in which set-up would the water reach room temperature first? Explain your answer clearly. (2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,950

Correctly answered feedback

B. The metal tubes are longer thus is a larger surface area exposed to the surrounding air. Thus, it conduct more than heat from the water to the surrounding air.

Incorrectly answered feedback

B. The metal tubes are longer thus is a larger surface area exposed to the surrounding air. Thus, it conduct more than heat from the water to the surrounding air.

Answers | Edit | Duplicate | Used In | Reorder

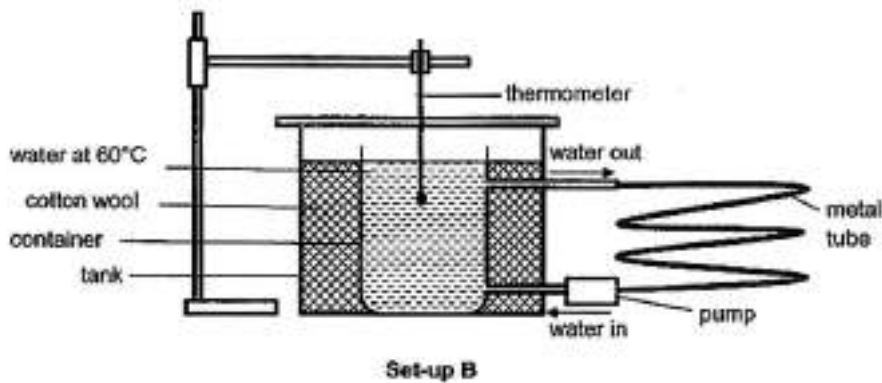
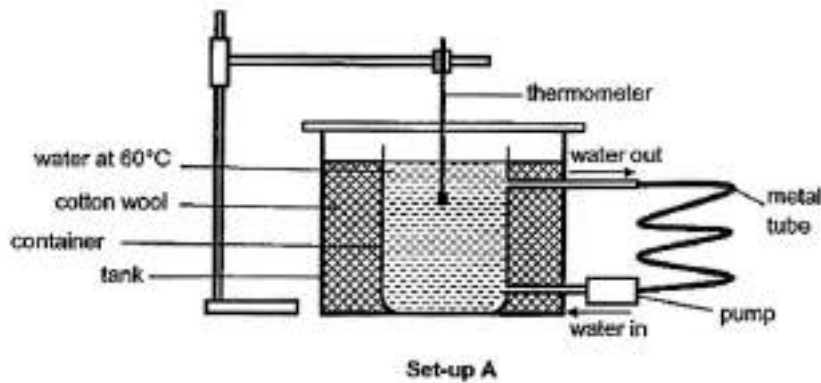
Remove From Test

Question 62

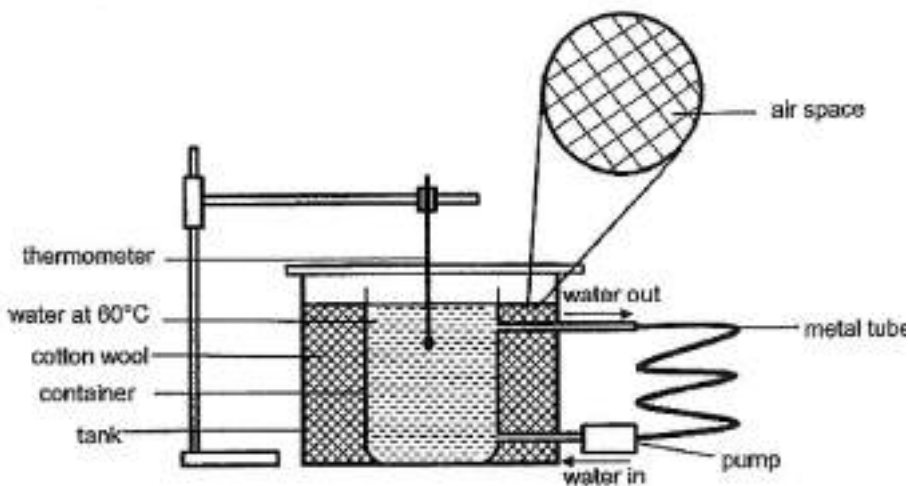
Primary 6 Science » Primary 6 Science (Prelim)

0 pts

Two identical containers were each filled with three litres of water at 60°C. Each container was then placed in identical larger tanks filled with cotton wool. A tube and a pump were attached to each container to allow a continuous flow of water out of the container and then back again. Set-up A has a shorter tube than set-up B.



It was found that the cotton wool is filled with air spaces, as shown in the diagram below.



Explain the purpose of placing the containers into a larger tank filled with cotton wool. [2]

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,960

Correctly answered feedback

Air in the cotton wool is a poor conductor of heat. This slows down reduced heat loss from the water in the container to the surrounding air. This allows a more accurate measurement of rate of heat loss of the water through the metal tube to the surrounding air most of the heat loss takes place at the metal tube.

Incorrectly answered feedback

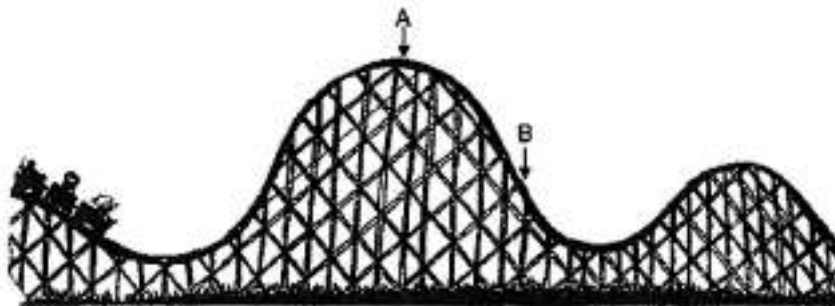
Air in the cotton wool is a poor conductor of heat. This slows down reduced heat loss from the water in the container to the surrounding air. This allows a more accurate measurement of rate of heat loss of the water through the metal tube to the surrounding air most of the heat loss takes place at the metal tube.

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

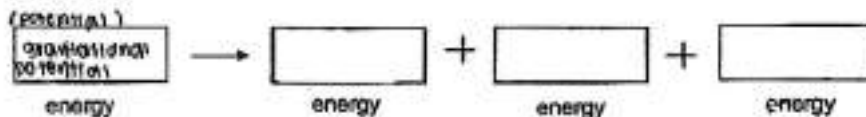
Question 63

Primary 6 Science » Primary 6 Science (Prelim) 0 pts

The roller coaster is brought to the highest point A.



Write down the energy conversion for the roller coaster as it moves from A to B. [1]



This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question Type: Essay
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,269,972

Correctly answered feedback

Gravitational potential ---> kinetic + heat + sound

Incorrectly answered feedback

Gravitational potential ---> kinetic + heat + sound

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

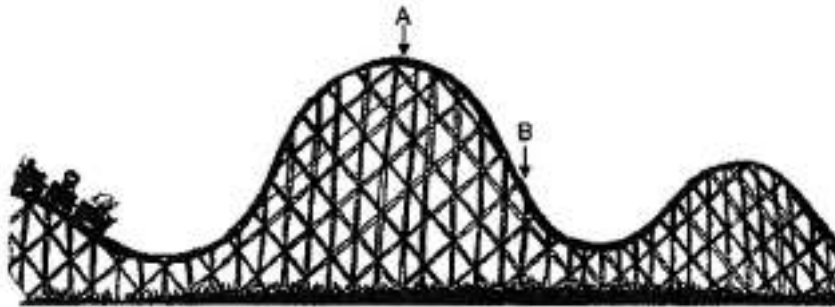
[Remove From Test](#)

Question 64

Primary 6 Science » Primary 6 Science (Prelim)

2 pts

The roller coaster is brought to the highest point A.



Fill in the blanks with 'increase' or 'decrease' as the roller coaster moves down from point A to point B.

Clue

Match

Points	Potential Energy
A to B	

Decrease

Points: +1 -0

Points	Kinetic Energy
A to B	

Increase

Points: +0.5 -0

Points	Speed
A to B	

Increase

Points: +0.5 -0

Question Type: Matching
Shuffle Mode: Shuffle Matches Only
Date Added: Fri 8th Oct 2021
Last Modified: N/A
QID#: 29,270,091

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

[Remove From Test](#)

