ClassMarker

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Primary 6 Science (Prelim) - MGS (Y0)

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Test Introduction

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59 Questions (29 Points) **Question Bank:** 12,655 Questions

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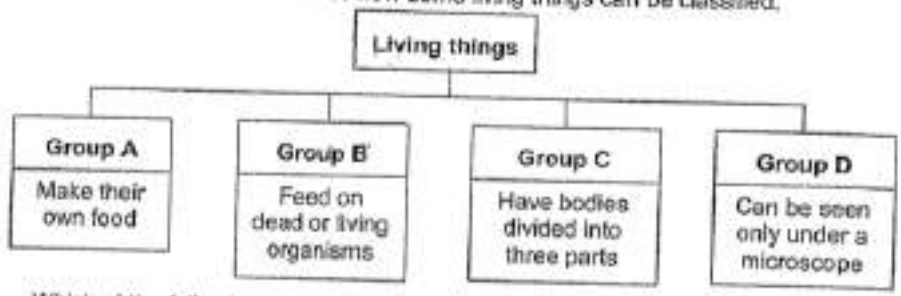
Question 1

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The classification chart shows how some living things can be classified.



Which of the following can be placed in Groups A, B, C and D respectively?

	Group A	Group B	Group C	Group D
(1)	insects	plants	bacteria	fungi
(2)	flowering plants	fungi	bacteria	insects
(3)	non-flowering plants	fungi	insects	bacteria
(4)	non-flowering plants	bacteria	insects	fungi

A. 1
B. 2
✓ C. 3
D. 4

Question Type: *Multiple Choice*

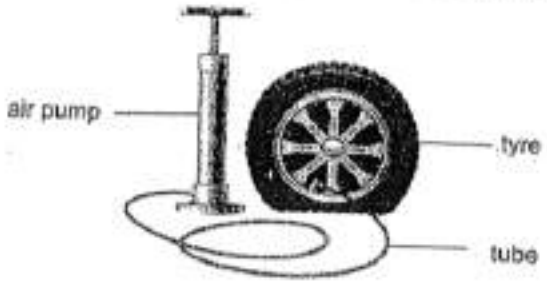
Randomize Answers: No
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,458,049

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 2

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The diagram below shows an air pump attached to a deflated tyre by a tube.



What happens to the mass and volume of the tyre after four pumps of air are given?

	Mass	Volume
(1)	increases	increases
(2)	no change	increases
(3)	increases	no change
(4)	decreases	decreases

✓ **A.** 1

B. 2

C. 3

D. 4

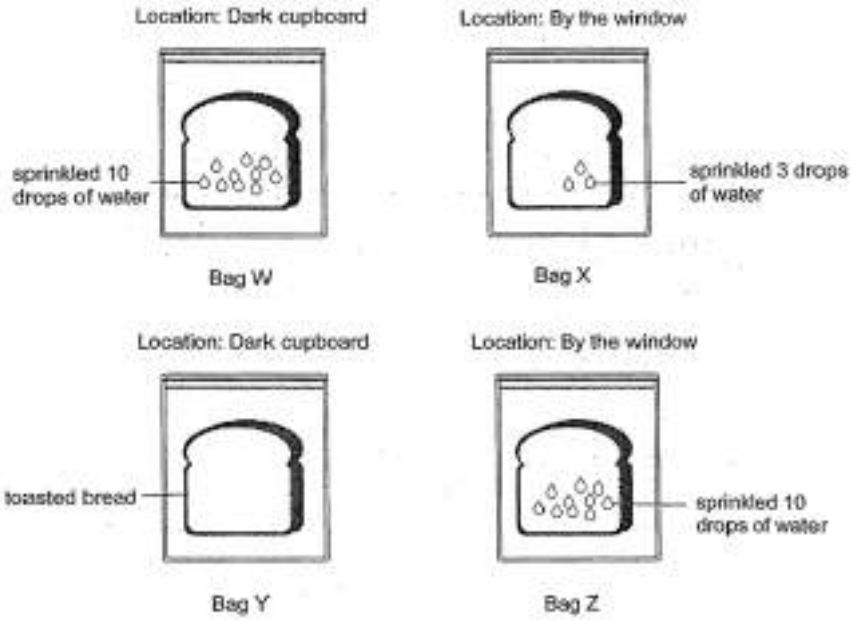
Question Type: *Multiple Choice*
Randomize Answers: No
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,458,052

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 3

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Shucheng sealed 4 similar pieces of bread into an airtight bag each and placed them under different conditions as shown below. The bread in Bag Y was toasted before being sealed.



Which of the following correctly shows the aim of his experiment based on the bags that he has chosen for comparison?

	Bags	Aim of experiment
(1)	W and X	To find out if air is required for mould to grow
(2)	W and Z	To find out if light is required for mould to grow
(3)	X and Y	To find out if moisture is required for mould to grow
(4)	Y and Z	To find out if warmth is required for mould to grow

A. 1

✓ **B.** 2

C. 3

D. 4

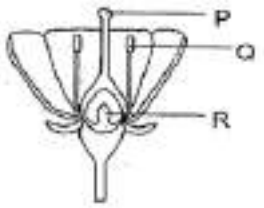
Question Type: *Multiple Choice*
Randomize Answers: *No*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,458,056*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

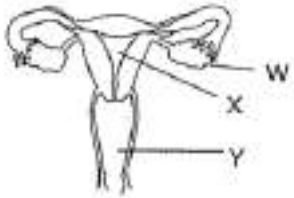
Question 4

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The diagrams below show parts of the reproductive system in a plant and in a human.



plant reproductive system



human reproductive system

Some students made the following statements shown in the table below.

Student	Statement
Andy	Fertilisation takes place at R, X and W.
Janelle	Q and W produce reproductive cells.
Ismail	Both P and Y receive the female reproductive cells.

Which of the student(s) is/are correct?

✓ **A.** Janelle only

B. Andy and Ismail only

C. Janelle and Ismail only

D. Andy, Janelle and Ismail

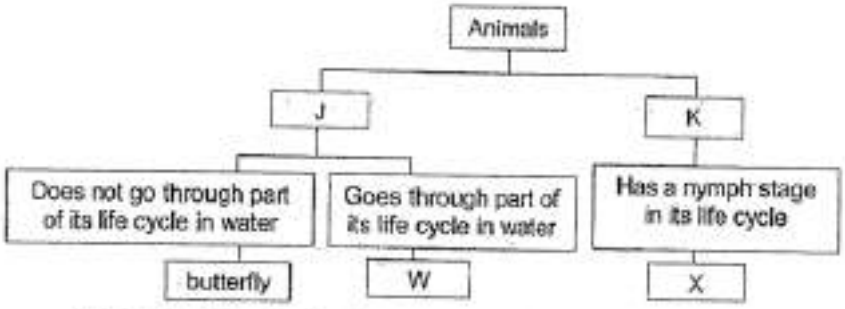
Question Type: *Multiple Choice*
Randomize Answers: *No*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,458,062*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 5

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The classification table below shows how some animals are classified.



Which of the following best represent J, K, W and X?

	J	K	W	X
(1)	Has a 3-stage life cycle	Has a 4-stage life cycle	beetle	grasshopper
(2)	Has a 4-stage life cycle	Has a 3-stage life cycle	mosquito	cockroach
(3)	Young resembles the adult	Young does not resemble the adult	beetle	cockroach
(4)	Young does not resemble the adult	Young resembles the adult	mosquito	beetle

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#:	*29,458,067*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 6

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Samy wanted to find out how the number of wing-like structures of Fruit C affects the time it takes to reach the ground.

Fruit C

He carried out an experiment using four set-ups, W, X, Y and Z, and recorded his observations in the table below.

Set-ups	Number of wing-like structures	Colour of fruit C	Presence of wind
W	1	brown	Yes
X	1	black	Yes
Y	3	black	Yes
Z	3	brown	No

Which two set-ups should he choose for a fair test?

A. W and X

✔ **B.** W and Y

C. Z and X

D. Z and Y

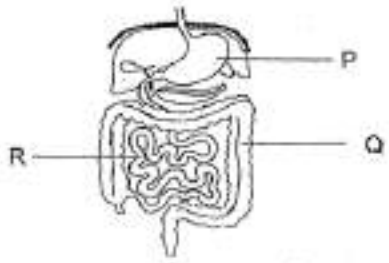
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,075*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 7

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The diagram shows parts of the digestive system.



Which of the following statements are correct?

A Digestion is completed at Q.
B Digested food is absorbed in Q and R.
C Digestive juices can be found in P and R.
D Water is removed from undigested food at Q.

A. A and B only

B. A and C only

C. D and B only

✔ **D.** D and C only

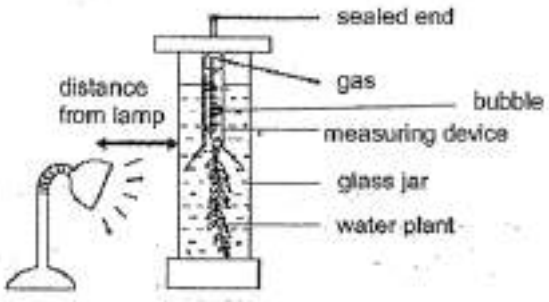
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,081*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 8

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Molly carried out an experiment using four different water samples, P, Q, R and S. Using the same amount of water sample and water plants, she set up the experiment as shown below.



After 6 hours, the volume of gas produced by the water plants in each water sample was recorded in the table below.

Water sample	Volume of gas (cm^3)
P	18
Q	9
R	5
S	11

Based on her results, which of the following statements is **incorrect**?

A. sample P is clearer than sample S

B. the amount of light passing through sample R is the least

C. the water plant in sample p made the most amount of food

✓ **D.** the rate of photosynthesis for the water plan in sample Q is higher than that in sample S

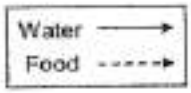
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,089*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

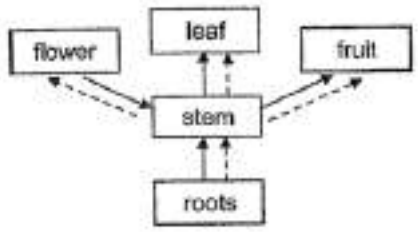
Question 9

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

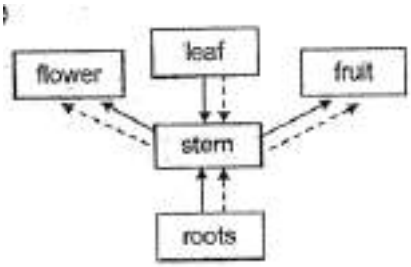
Which one of the following diagrams shows the correct paths taken by food and water as they are transported in a plant?



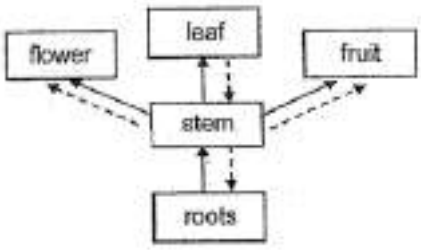
A.



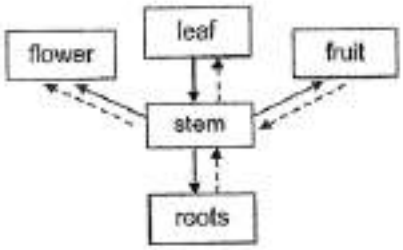
B.



✓ **C.**



D.



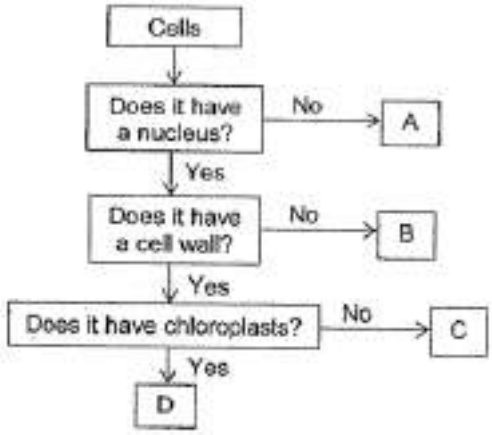
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,199*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 10

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The flow chart below shows information on four type of cells, A, B, C and D.



Which cell is found on a plant part that produces sugar?

A. A

B. B

C. C

✓ **D.** D

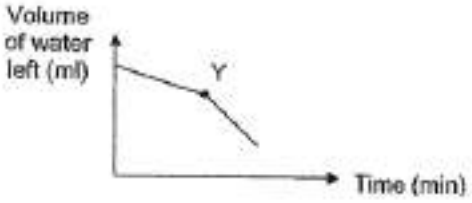
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,206*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 11

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Nabil set up an experiment to investigate the rate of evaporation of water. He set up a beaker of water in the Science Room and measured the volume of water left in the beaker over a period of time. He recorded his results in the graph below.



Which one of the following changes did Nabil make to his set-up at point Y of the graph?

A. he placed the beaker in the freezer

B. he poured boiling water into the beaker

✓ **C.** he switched on the fans in the science room

D. he poured the water into another beaker with a smaller opening

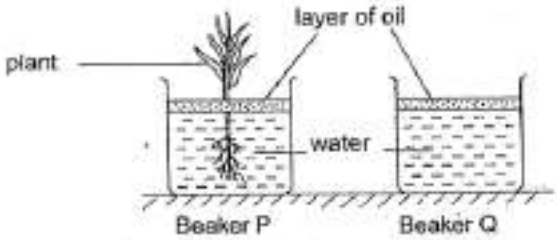
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,215*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 12

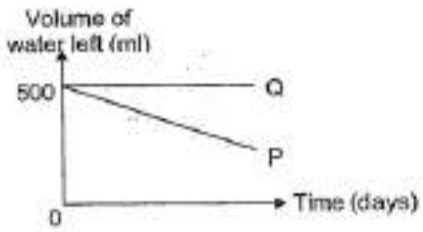
Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Iris poured 500 ml of water into two identical beakers, P and Q, and placed a plant into beaker P as shown below.

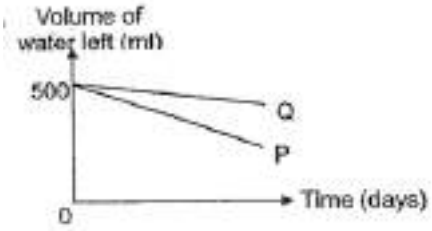


She left both beakers by a window in the living room and recorded the volume of water left in both beakers over a few days. Which one of the following graphs correctly shows the volume of water left in both beakers?

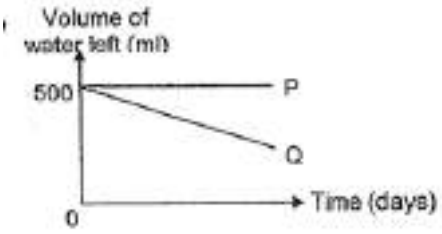
✓ **A.**



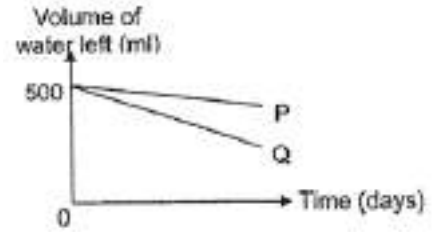
B.



C.



D.



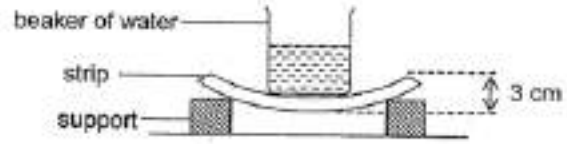
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,701*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 13

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Natalie used the set-up below to investigate the flexibility of 3 strips, J, K and L, which are made of different materials.



She placed strip J on two supports and poured water into an empty beaker until strip J bent by 3 cm. She repeated the experiment for strips K and L. She recorded the amount of water required to bend each strip by 3 cm and concluded that strip L is the most flexible and strip K is the least flexible.

Which of the following shows the correct amount of water in the beaker required to bend the strips by 3 cm?

	Amount of water in beaker (cm^3)		
	J	K	L
(1)	100	250	500
(2)	250	100	500
(3)	500	250	100
(4)	250	500	100

A. 1

B. 2

C. 3

✓ **D.** 4

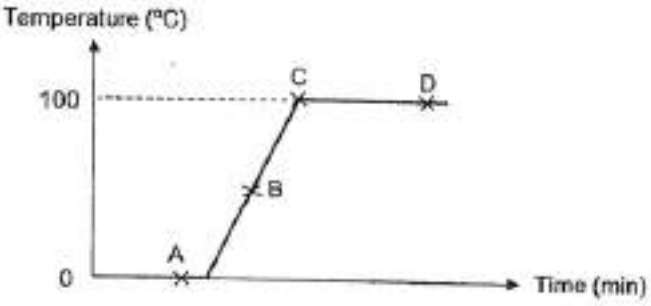
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,706*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 14

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Nathaniel used a bunsen burner to heat a beaker containing a block of ice. He measured the temperature of the content in the beaker from the start of the experiment for a period of time and plotted the graph below.



At which points on the graph can he find water in the following states?

	liquid and gas	liquid only	solid and liquid
(1)	C and D	B	A
(2)	D	B	A
(3)	none	C	A and B
(4)	none	C, D	A and B

✔ **A.** 1

B. 2

C. 3

D. 4

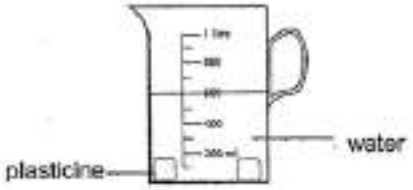
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,710*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 15

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Janice had 150 cm^3 of plasticine. She moulded all of it into a ball, placed it into a container of water and recorded the total volume of water and plasticine. Next, she took the ball out and rolled it into two cubes before placing it back into the container of water as shown below.



Which of the following represents (A) the volume of water used in the experiment and (B) the total volume of water and one cube of plasticine that Janice could record?

	(A) Volume of water (cm^3)	(B) Total volume of water and one cube of plasticine (cm^3)
(1)	450	150
(2)	525	750
(3)	450	525
(4)	600	750

A. 1

B. 2

✓ **C.** 3

D. 4

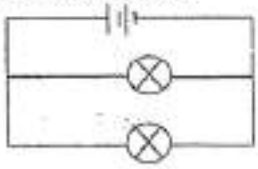
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,713*

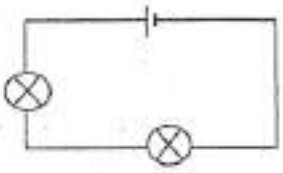
Answers | Edit | Duplicate | Used In | Reorder Remove From Test

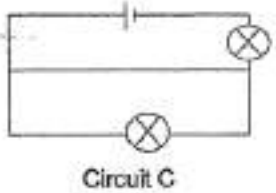
Question 16

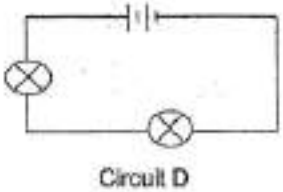
Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Zalina wanted to find out if the arrangement of bulbs affects the brightness of the bulbs in a circuit.


Circuit A


Circuit B


Circuit C


Circuit D

Which two circuits should she use to carry out the experiment?

A. A and B only

✔ **B.** A and D only

C. C and B only

D. C and D only

Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,717*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

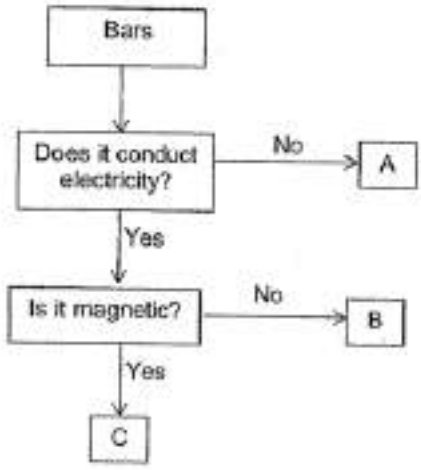
Question 17

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Sara used a circuit tester to test the properties of three bars, P, Q and R. She recorded the results as shown in the table below.

Observation	Bars		
	P	Q	R
Did the bulb light up?	Yes	No	Yes
Did the bar attract steel clips?	Yes	No	No

She used the following flow chart to classify the bars based on their properties.



Which of the following letters can be used to represent bars P, Q and R?

	Bars		
	P	Q	R
(1)	A	B	C
(2)	B	C	A
(3)	B	A	C
(4)	C	A	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#:	*29,458,719*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

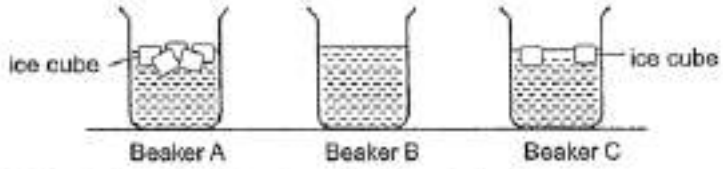
Question 18

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Suresh poured equal amount of tap water into 3 identical beakers. He added 7 ice cubes into each beaker. After that, he wrapped each beaker with a different number of identical bubble wraps of the same size.

Beaker	Number of bubble wraps used to wrap the beaker
A	13
B	2
C	7

After some time, he removed all the bubble wraps and made his observations as shown below.



Which statement explains Suresh's observations?

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#:	*29,458,823*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

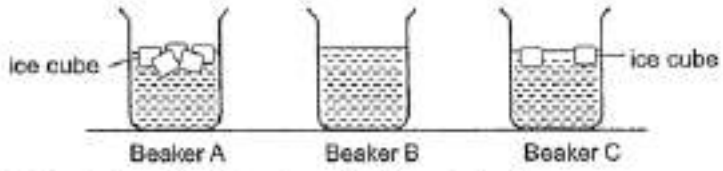
Question 19

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Suresh poured equal amount of tap water into 3 identical beakers. He added 7 ice cubes into each beaker. After that, he wrapped each beaker with a different number of identical bubble wraps of the same size.

Beaker	Number of bubble wraps used to wrap the beaker
A	13
B	2
C	7

After some time, he removed all the bubble wraps and made his observations as shown below.



Which statement explains Suresh's observations?

A. The ice cubes in beaker C gained more heat than the ice cubes in beaker B

B. The more bubble wraps used, the more heat is trapped to prevent the ice from melting

C. Beaker B has the least bubble wraps used so the greatest amount of heat is lost from the ice cubes

✓ **D.** Beaker A has the most bubble wraps used so the ice cubes in it gained the least amount of heat

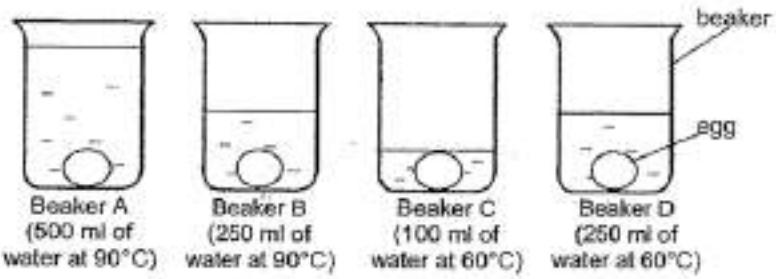
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,938*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 20

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

John placed 4 similar uncooked eggs into beakers, A, B, C and D, which contained water of different volumes and temperatures as shown in the diagrams. The eggs were left in the water over a period of time.



John then cracked each egg to observe how cooked it was.
Which one of the following shows the correct order of how cooked each egg was?

	least cooked → most cooked			
(1)	C	D	B	A
(2)	C	B	D	A
(3)	A	B	D	C
(4)	A	D	B	C

A. 1

B. 2

C. 3

✓ **D.** 4

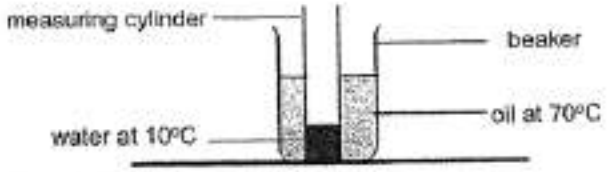
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,953*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 21

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

A measuring cylinder containing some amount of water at 10°C is placed in a beaker containing 100 ml of oil at 70°C. The set-up was left in the room for some time.



Four pupils made the following statements.

Jane: The temperature of water increased after some time as it gained heat from the oil.

Mary: The temperature of oil decreased after some time as it lost heat to the water and surroundings.

Kathy: Heat is transferred from the oil to the water.

Who made the correct statement(s)?

A. Kathy only

B. Jane and Kathy only

C. Jane and Mary only

✓ **D.** Jane, Mary and Kathy

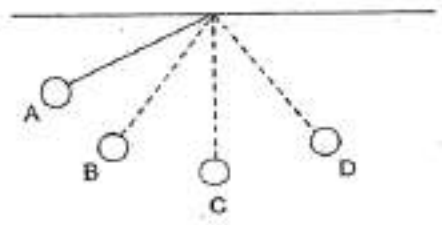
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,966*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 22

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

A ball was attached to a string and released from position A. It swung from position A to D as shown below.



At which position, A, B, C or D, did the ball possess the most kinetic energy?

A. A

B. B

✓ **C.** C

D. D

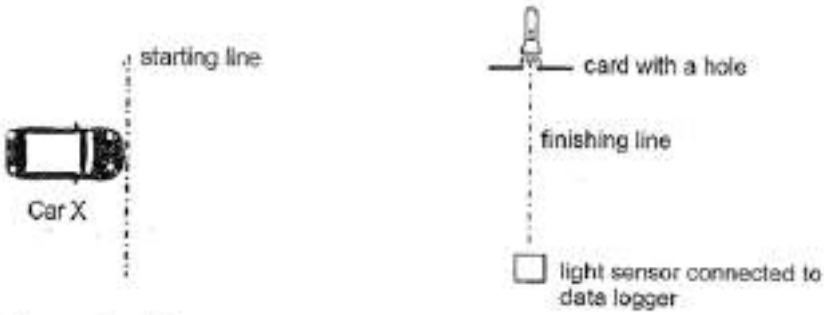
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,969*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 23

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Jenny conducted an experiment in a dark room with two different toy cars, X and Y. Car X was first placed at the starting line as shown in the diagram. Jenny turned on its switch and Car X moved towards the finishing line. The amount of light detected by the light sensor as the car moved for five seconds was recorded.



She repeated the experiment with Car Y. Her results are shown in the table below.

Time (s)	Amount of light detected by light sensor (units)	
	Car X	Car Y
0	2000	2000
1	2000	2000
2	0	2000
3	2000	2000
4	2000	0
5	2000	2000

Based on the above results, which of the following statements are correct?

A Car X travelled faster than Car Y.
B Car Y has a brighter colour than Car X.
C Car X allows more light to pass through.
D Car Y reached the finishing line at the 4th second.

A. A and C only

✓ **B.** A and D only

C. B and D only

D. C and D only

Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,973*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 24

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Muthu released a wooden block down a slope causing it to move from position A to B as shown in Diagram X. The graph below shows the amount of three different forms of energy of the wooden block at position L of the slope.

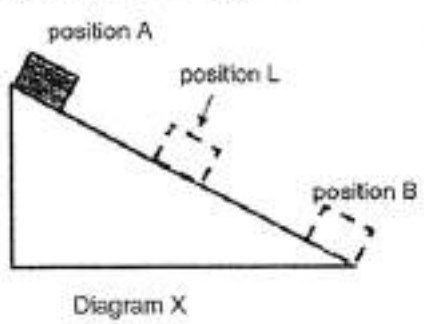
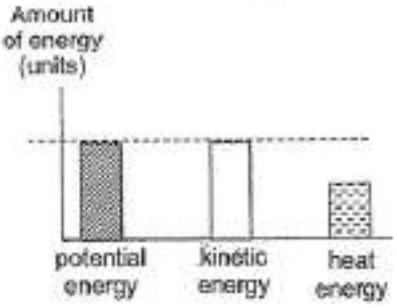
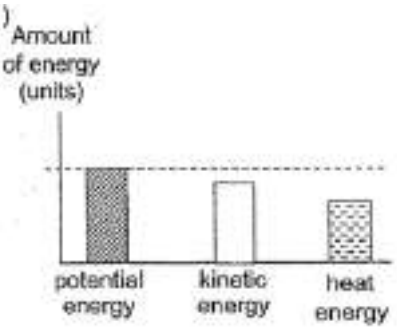
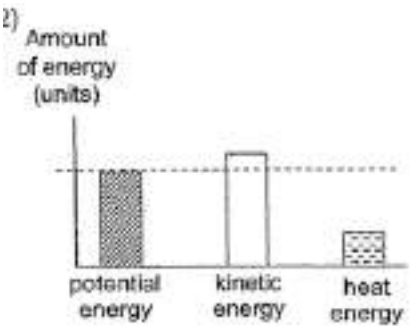


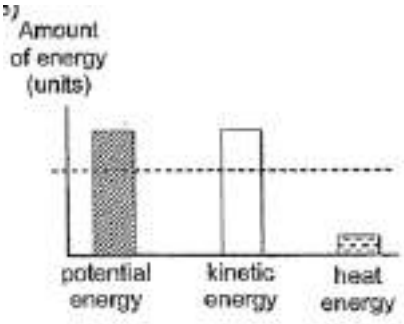
Diagram X



Muthu applied some powder on the slope and repeated the experiment. Which one of the following graphs show the amounts of different forms of energy in the wooden block when it is at position L?

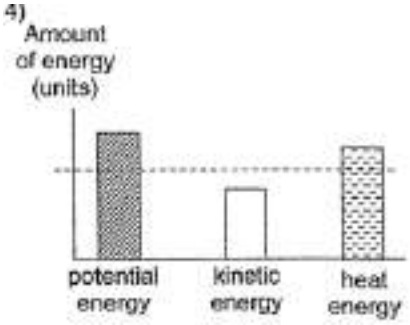
A.


✓ B.


C.


D.

4)



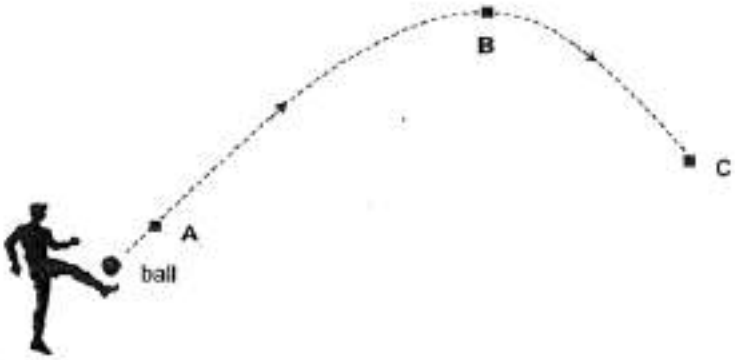
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,981*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 25

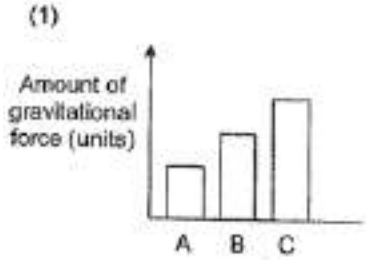
Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The diagram below shows the path taken by the ball travelled when it was kicked. It then travelled to points A, B and C as shown in the diagram below.

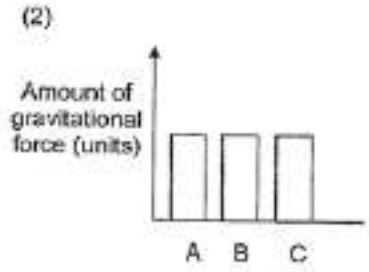


Which one of the following graphs shows the amount of gravitational force acting on the ball at points A, B and C?

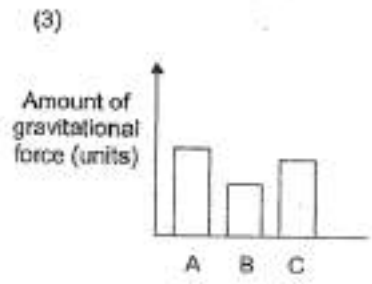
A.



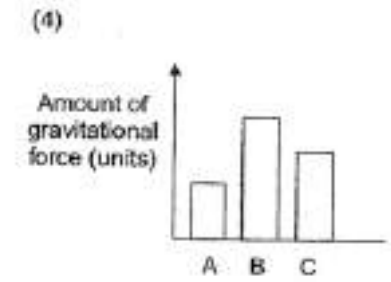
✔ **B.**



C.



D.



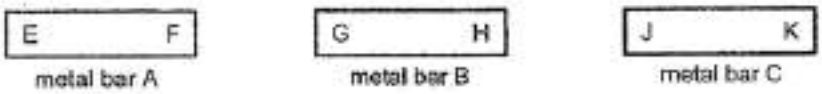
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,988*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 26

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

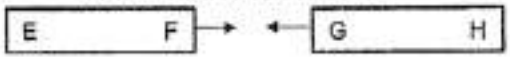
Anna labelled the ends of three metal bars A, B and C as shown.



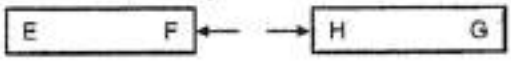
metal bar A metal bar B metal bar C

She brought the ends of the metal bars close to each other and made some observations.

F and G attracted each other



F and H repelled each other



E and J attracted each other

F and J attracted each other

Based on her observations, which one of the following statements is **not** correct?

A. Bar B can attract bar C

B. Bar A and bar B are magnets

✓ **C.** Bar A and bar C are magnets

D. Bars A,B and C are made of magnetic materials

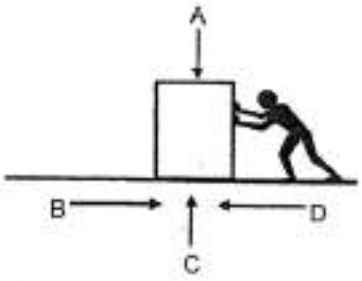
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,458,993*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 27

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

The picture shows a man pushing a box along the floor.



Which of the following correctly identify the arrows to the type of forces acting on the box?

	Gravitational force	Frictional Force
(1)	A	B
(2)	A	D
(3)	B	C
(4)	C	B

✓ **A.** 1

B. 2

C. 3

D. 4

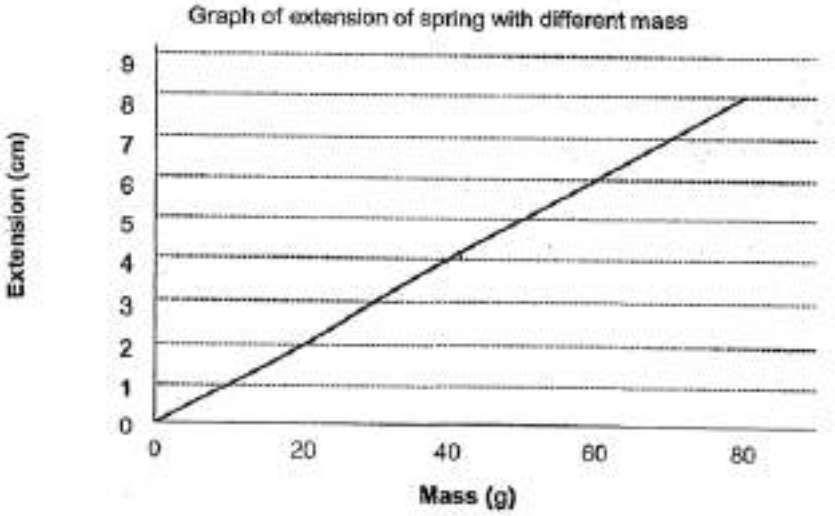
Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,459,000*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 28

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

A mass was hung on a spring and its extension was recorded as shown in the graph below.



The original length of the spring was 10 cm. What was the length of the spring when a mass of 40 g was hung on it?

A. 4 cm

B. 8 cm

C. 12 cm

✓ **D.** 14 cm

Question Type:	*Multiple Choice*
Randomize Answers:	*No*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,459,004*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 29

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

Some students observed the parts of 3 different cells, X, Y and Z, under a microscope. They recorded their observations in the table below. A tick (✓) indicates that the cell part was present.

	Cells		
Parts	X	Y	Z
Nucleus	✓	✓	✓
Cell membrane	✓	✓	✓
Cytoplasm	✓	✓	✓
Cell wall		✓	✓
Chloroplast		✓	

(a) Based on the results above, what is the main difference between the functions of Cells Y and Z?

[1]

Question Type:	*Essay*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,459,027*

Correctly answered feedback

Y makes food for the plant through photosynthesis and Z absorbs water for the plant

Incorrectly answered feedback

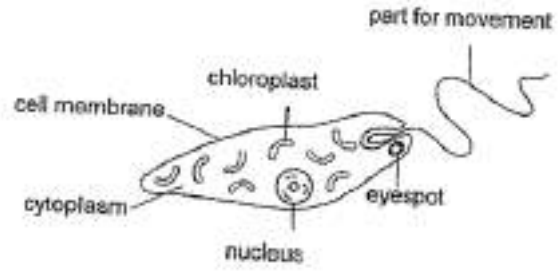
Y makes food for the plant through photosynthesis and Z absorbs water for the plant

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 30

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

The students observed another Cell K as shown below.



(b) State a characteristic of Cell K which shows that it is taken from the same group of living things as Cell X. [1]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,029

Correctly answered feedback

Cell X has a cell membrane and no cell wall and it is just like cell K

Incorrectly answered feedback

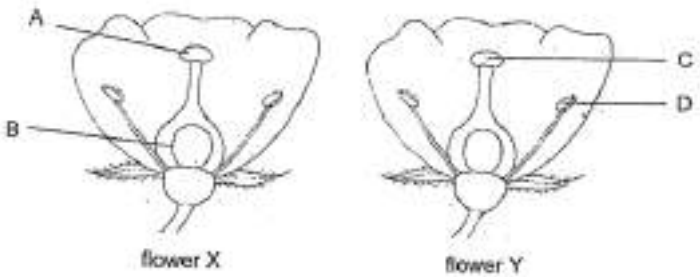
Cell X has a cell membrane and no cell wall and it is just like cell K

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 31

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

The diagram shows two flowers, X and Y, from the same plant. After process J happens, fertilization takes place in flower X and a fruit develops.



(a) Using the labelled part(s) in the diagram above, explain what happens during process J. [1]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,040

Correctly answered feedback

The pollen grains from D would and on A and the male reproductive cell would fuse with the female reproductive cell so that fertilisation can occur

Incorrectly answered feedback

The pollen grains from D would and on A and the male reproductive cell would fuse with the female reproductive cell so that fertilisation can occur

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 32

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

b) Flowers X and Y contain a lot of nectar. Explain how both flowers are like to be pollinated

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,052*

Correctly answered feedback

They are likely to be pollinated by insects. The insects would feed on the nectar and some of the pollen grains would stick on it and when it goes to feed on other flower, the pollen grains would land on the stigma

Incorrectly answered feedback

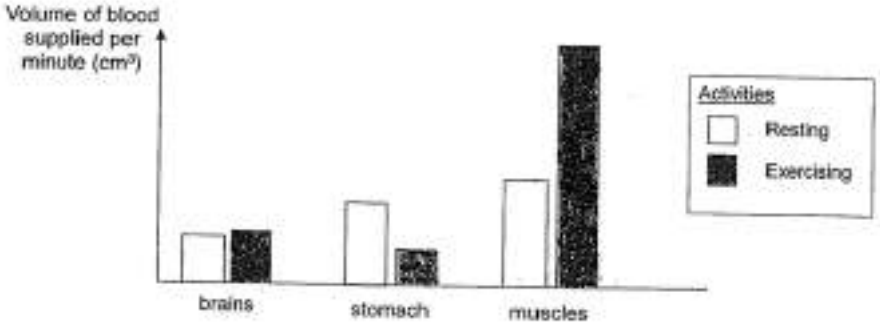
They are likely to be pollinated by insects. The insects would feed on the nectar and some of the pollen grains would stick on it and when it goes to feed on other flower, the pollen grains would land on the stigma

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 33

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

1 The graph below shows the volume of blood supplied to some parts of Melvin's body when he is resting and exercising.



(a) Explain why more blood is carried to the muscles when Melvin is exercising.

[2]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,168*

Correctly answered feedback

more blood containing more oxygen and digested food is carried

Incorrectly answered feedback

more blood containing more oxygen and digested food is carried

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 34

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

b) Based on the graph above, explain why it is not advisable for Melvin to run immediately after having a heavy meal

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,173*

Correctly answered feedback

When exercising, less blood is carried to his stomach where digestion takes place so rate of digestion is slower

Incorrectly answered feedback

When exercising, less blood is carried to his stomach where digestion takes place so rate of digestion is slower

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 35

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

Jane prepared the set-ups to investigate the digestion rate of meat cubes as shown below. Liquid X helps in the digestion of food.

Set-up A
10 g meat cube
+
25 cm^3 of liquid X

Set-up B
10 g meat cube chopped into pieces
+
25 cm^3 of liquid X

Jane observed the amount of time it took for the meat cubes to be broken down completely in each test tube. She recorded her results in the table below.

Set-up	Result
A	Meat was broken down completely after 2 hours.
B	Meat was broken down completely after 1 hour.

(a) Which variable was changed as part of the experiment? [1]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*

Last Modified: *N/A*
QID#: *29,459,187*

Correctly answered feedback

The amount of exposed surface area of meat in contact with liquid X

Incorrectly answered feedback

The amount of exposed surface area of meat in contact with liquid X

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 36

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

b) Based on the results above, explain how chewing of food affects the rate of digestion

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,193*

Correctly answered feedback

When chew food, it breaks down the food into simpler substance and it increase the exposed surface area of the food in contact with the digestive juice and it increased the rate of digestion

Incorrectly answered feedback

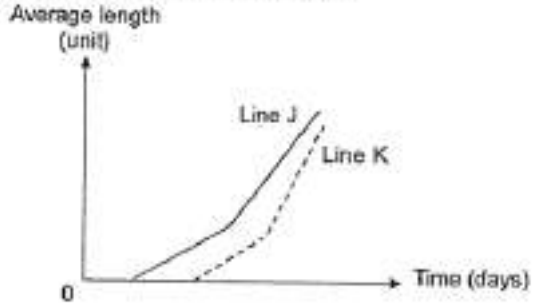
When chew food, it breaks down the food into simpler substance and it increase the exposed surface area of the food in contact with the digestive juice and it increased the rate of digestion

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 37

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

Ismail observed the growth of plant X over 5 days. He placed some seeds of plant X into a container with moist cotton wool and recorded his observations of the average length of their shoots and roots in the graph below.



(a) Which line, J or K, represents the growth of the roots? Explain your answer.
[1]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,200*

Correctly answered feedback

The root grows first in order to take in water during germination

Incorrectly answered feedback

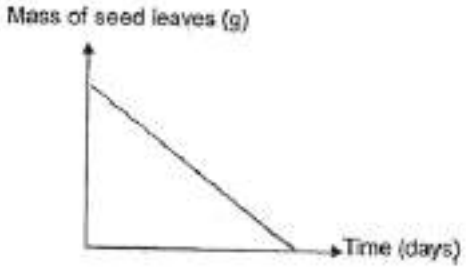
The root grows first in order to take in water during germination

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 38

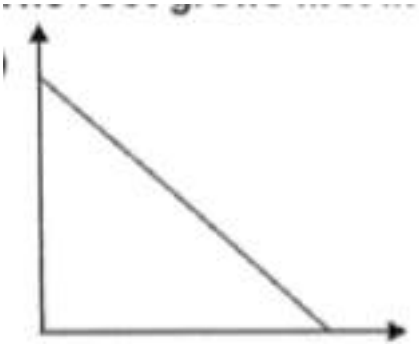
Primary 6 Science » Primary 6 Science (Prelim) 0 pts

(b)(i) Draw a line graph below to show the change in the mass of seed leaves of plant X over time. [1]

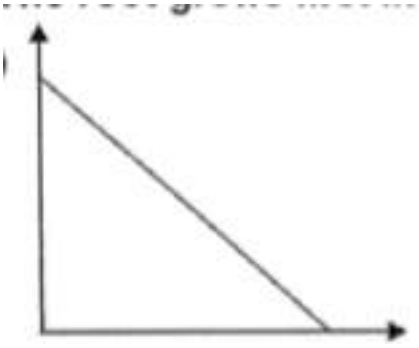


Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,203*

Correctly answered feedback



Incorrectly answered feedback



Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 39

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

ii) Give a reason for your answer in bi)

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,210*

Correctly answered feedback

The seed leaves stores food for the plant and the mass would slowly decrease when it uses the food and when the true leaves appear, the seed leaves would drop off

Incorrectly answered feedback

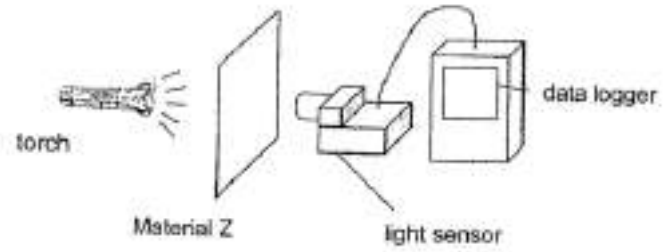
The seed leaves stores food for the plant and the mass would slowly decrease when it uses the food and when the true leaves appear, the seed leaves would drop off

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 40

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

Mr Tan used Material Z to make sheets of different thickness in his factory. He wanted to find out how much light can pass through different thickness of Material Z using the set-up below.



He recorded the results in the table below.

Thickness of Material Z (mm)	Amount of light recorded (unit)
1	15
2	10
3	5
4	0

(a)(i) Mr Tan has a few sheets of Material Z that are 2mm thick. He wants to use it to wrap the outer wall of a clear plastic water bottle so that no light can enter it. Based on the above results, what is the minimum number of sheets of Material Z required?

[1]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,213*

Correctly answered feedback

2 sheets

Incorrectly answered feedback

2 sheets

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 41

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

aii) State another important property of Material Z that will make it suitable to be used to wrap the bottle. Explain your answer

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,223*

Correctly answered feedback

Flexibility. If he wants to wrap it, it has ro be flexible so that it can cover the whole plastic bottle

Incorrectly answered feedback

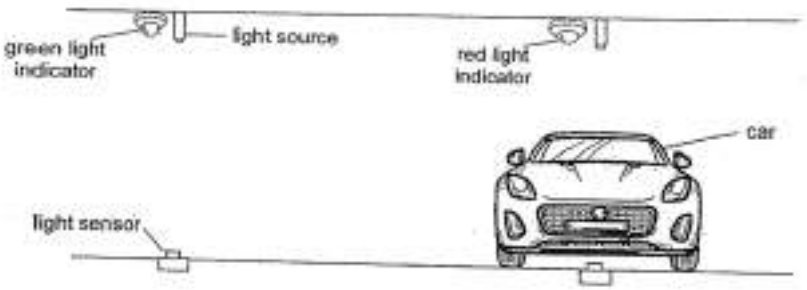
Flexibility. If he wants to wrap it, it has ro be flexible so that it can cover the whole plastic bottle

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 42

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

The diagram below shows a parking lot sensor in a carpark. When no car is parked in the lot, the light indicator turns green. When a car is parked in the lot, the light indicator turns red.



(b) Explain how the parking lot sensor works to show when the lot is occupied and unoccupied. [2]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,235*

Correctly answered feedback

The car is opaque and it does not allow any light to pass through, hence, when the light sensor does not detect any light from the light source due to the car it would turn red, but when the light sensor detects light from the light source it would turn green

Incorrectly answered feedback

The car is opaque and it does not allow any light to pass through, hence, when the light sensor does not detect any light from the light source due to the car it would turn red, but when the light sensor detects light from the light source it would turn green

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 43

Primary 6 Science » Primary 6 Science (Prelim) 1 pt

Match the options below:

Kate recorded the states of three substances, J, K and L, at three different temperatures in the table below.

Substances	State of substance at		
	0°C	50°C	100°C
J	solid	liquid	gas
K	solid	solid	liquid
L	liquid	gas	gas

(a) Arrange the three substances in order of melting point, starting from the lowest. [1]

Clue	Match
L	lowest
J	middle
K	highest

Question Type: *Matching*
Grade style: *Full points if all answers are correct*
Shuffle Mode: *Shuffle Matches Only*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,242*

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 44

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

b) What is the difference between melting and evaporation?

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,246*

Correctly answered feedback

melting is when a solid becomes a light but evaporation is when liquid become gas

Incorrectly answered feedback

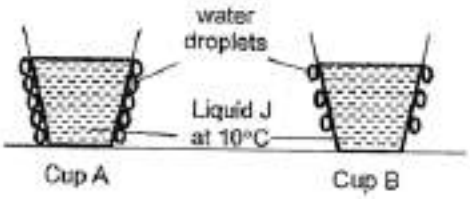
melting is when a solid becomes a light but evaporation is when liquid become gas

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 45

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

Kate poured substance J (in liquid form) into two identical cups, A and B. She placed each cup in two rooms, each at different temperatures. After some time, she observed more water droplets forming on cup A than B as shown below.



Suggest a reason for Kate's observation. Explain your answer. [2]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,264

Correctly answered feedback

The temperature of the room where cup A was placed was higher. The more warmer water vapour in the surrounding air came into contact with the cooler surface of the cup, lost heat and condensed to form more water droplets

Incorrectly answered feedback

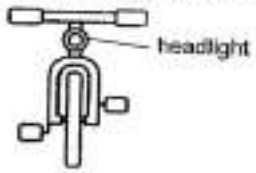
The temperature of the room where cup A was placed was higher. The more warmer water vapour in the surrounding air came into contact with the cooler surface of the cup, lost heat and condensed to form more water droplets

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

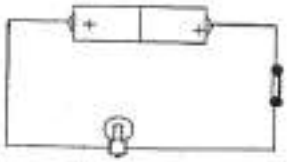
Question 46

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

Betsy is going night cycling with her friends. In order to remain visible to other road users, she installed a headlight to her bicycle connected to a circuit as shown below.

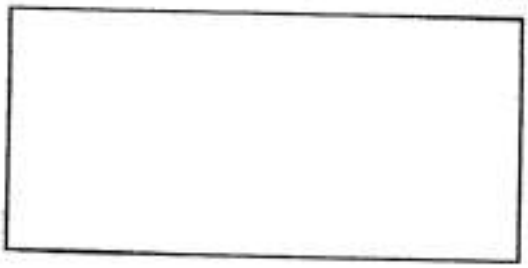


Front view of bicycle



Circuit of headlight

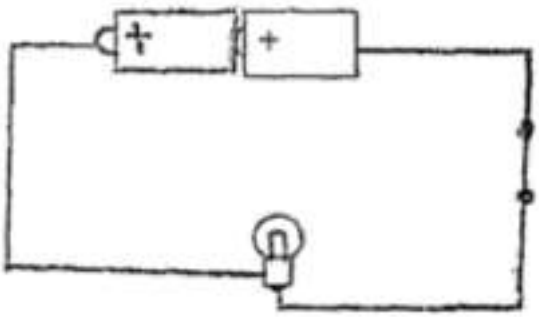
(a) Betsy noticed that the bulb did not light up in the circuit above. Draw in the box provided below how she should rearrange the components in the circuit for the bulb to light up. (One battery and one bulb have been drawn for you.) [1]



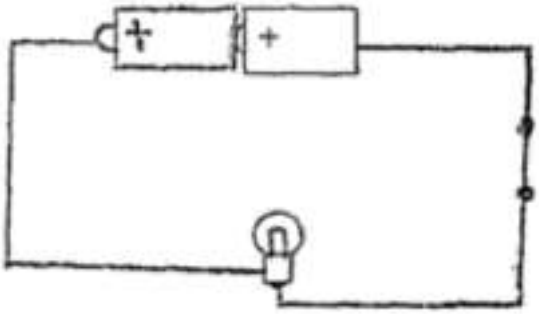
Question Type: Essay

Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,275*

Correctly answered feedback



Incorrectly answered feedback



Answers | Edit | Duplicate | Used In | Reorder Remove From Test

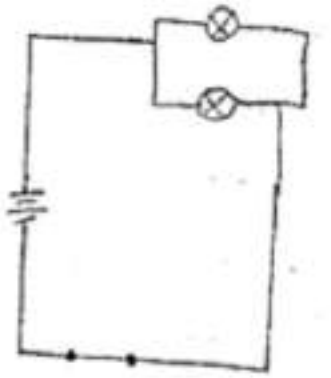
Question 47

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

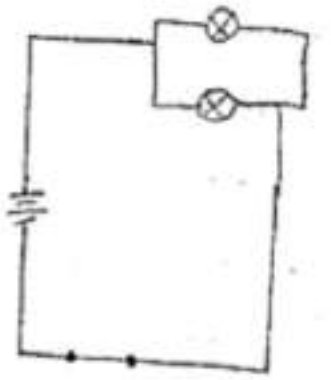
(b)(i) Betsy then decided to install two headlights for her bicycle. She wanted to make sure that one bulb will still work even if the other bulb is fused. Complete the circuit diagram below for the new headlights by drawing in the missing wires. [2]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,278*

Correctly answered feedback



Incorrectly answered feedback



Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 48

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

ii) Suggest another advantage of the arrangement of the two headlights in (i) that would help Betsy keep safe when she cycles at night

Question Type:	*Essay*
Date Added:	*Tue 26th Oct 2021*
Last Modified:	*N/A*
QID#:	*29,459,282*

Correctly answered feedback

the bulbs would be brighter

Incorrectly answered feedback

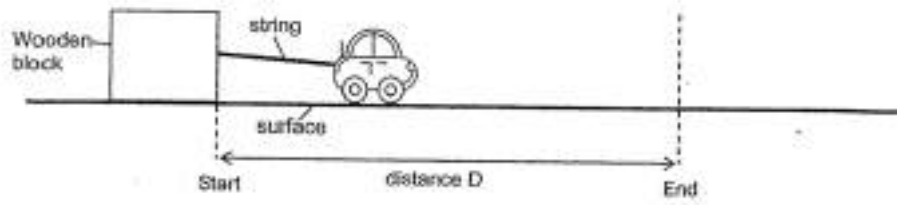
the bulbs would be brighter

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 49

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

Larry tested four different surfaces W, X, Y and Z. He used an electric toy car to pull the same wooden block across each surface covering the same distance D.



He recorded the time taken for the wooden block to move across distance D on each surface in the table below.

Surface	Time (s)
W	9
X	7
Y	3
Z	15

(a) State two forces that are acting on the wooden block as it is pulled by the car. [1]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,292

Correctly answered feedback

frictional force and gravitational force

Incorrectly answered feedback

frictional force and gravitational force

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 50

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

b) Explain why the time taken for the wooden block to move across distance D on the different surfaces is different

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,305

Correctly answered feedback

some of the surfaces could be rougher and it increases friction between the surface and the wooden block

Incorrectly answered feedback

some of the surfaces could be rougher and it increases friction between the surface and the wooden block

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 51

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

In many countries, a special surface is used on the portion of the road just before traffic light junctions to prevent accidents from happening.

(c) Based on Larry's results, which surface, W, X, Y or Z is most suitable for the above purpose? Explain your answer. [2]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,315*

Correctly answered feedback

surface Z, as it took the longest amount go time for the wooden block to travel distance D so it produced the most amount of friction for the car to slow down before the traffic light

Incorrectly answered feedback

surface Z, as it took the longest amount go time for the wooden block to travel distance D so it produced the most amount of friction for the car to slow down before the traffic light

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

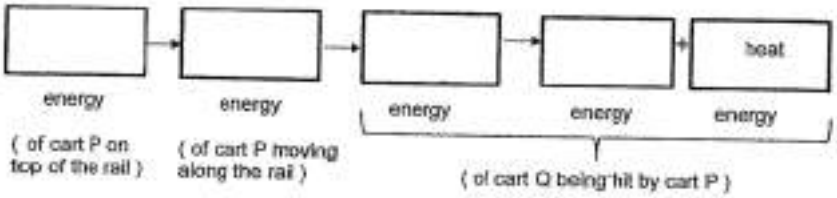
Question 52

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

14

The diagram below shows carts P and Q used at a coal mine which were along a rail. When an empty cart P rolled down the rail, it hit a stationary cart Q in front of it. As a result, the stationary cart Q was pushed a distance of four metres forward.

(a) Write down the energy conversion from one form to another in the boxes below. [2]



Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,319

Correctly answered feedback

Gravitational potential -> kinetic -> kinetic -> sound

Incorrectly answered feedback

Gravitational potential -> kinetic -> kinetic -> sound

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 53

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

b) If the moving cart P was fully loaded with coals, would the distance moved by cart Q be longer or shorter than 4 metres? Explain your answer in terms of energy conversion

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,322

Correctly answered feedback

The distance moved will be longer as cart P will have more mass increasing the gravitational potential energy which will be converted to more kinetic energy

Incorrectly answered feedback

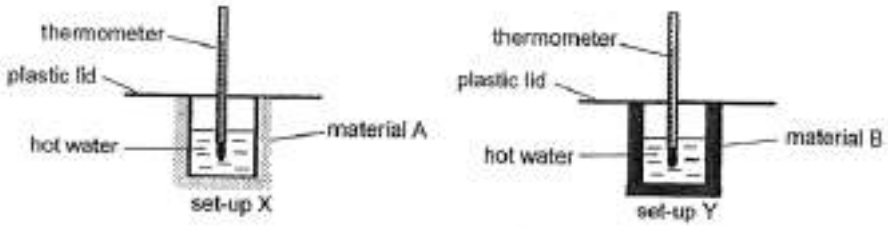
The distance moved will be longer as cart P will have more mass increasing the gravitational potential energy which will be converted to more kinetic energy

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

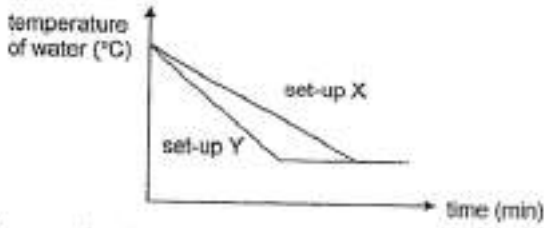
Question 54

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

Rashid conducted an experiment using set-ups X and Y as shown below. He wrapped a glass beaker with material A and another identical glass beaker with material B. He filled both beakers with the same volume of hot water.



Rashid measured the temperatures of the water over a period of time and plotted his results in the graph shown.



(a) What happened to the temperature of water in set-ups X and Y after some time? [1]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,326

Correctly answered feedback

They both decreased and reached room temperature

Incorrectly answered feedback

They both decreased and reached room temperature

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 55

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

b) Explain why the temperate of water in set-up decreased at a faster rate.

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,333

Correctly answered feedback

Material B is a good conductor of heat and it gained heat from the hot water faster and the temperature of the water decreased faster

Incorrectly answered feedback

Material B is a good conductor of heat and it gained heat from the hot water faster and the temperature of the water decreased faster

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 56

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

C) Material A in set-up X has small air spaces and is used to make a cooler box to store frozen food. Explain why material A would help keep the frozen food cold for a longer period of time

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,338*

Correctly answered feedback

Air is a poor conductor of heat and it would slow down heat gain from the frozen food to the surroundings

Incorrectly answered feedback

Air is a poor conductor of heat and it would slow down heat gain from the frozen food to the surroundings

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 57

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

Jimmy set up an experiment using a launcher and steel ball as shown below. He pulled spring X back using the handle and released it. He observed that the steel ball started to move and after passing point P, it rolled faster. It hit object A and stopped moving without bouncing back.

(a) Based on Jimmy's observation, what could object A be? Give a reason for your answer.
[1]

Question Type: *Essay*
Date Added: *Tue 26th Oct 2021*
Last Modified: *N/A*
QID#: *29,459,348*

Correctly answered feedback

A magnet. The ball stopped moving when it hit A as A attracted the steel ball

Incorrectly answered feedback

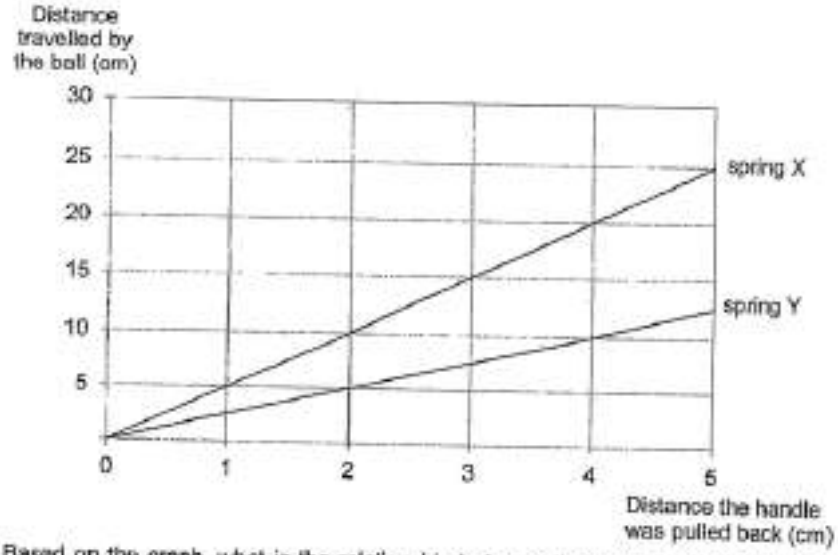
A magnet. The ball stopped moving when it hit A as A attracted the steel ball

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 58

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

Jimmy then removed object A and repeated his experiment with spring X and spring Y. He pulled each spring back at different distances before releasing the handle and measured the distance travelled by the ball. The graph below shows the results he obtained.



(b) Based on the graph, what is the relationship between the amount of elastic spring force and the distance travelled by the ball? [1]

Question Type: Essay
Date Added: Tue 26th Oct 2021
Last Modified: N/A
QID#: 29,459,354

Correctly answered feedback

As the amount go elastic spring force increases, the distance travelled by the ball increase

Incorrectly answered feedback

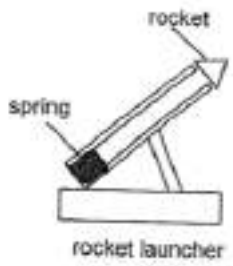
As the amount go elastic spring force increases, the distance travelled by the ball increase

Answers | Edit | Duplicate | Used In | Reorder Remove From Test

Question 59

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

Jimmy wanted to build a rocket launcher as shown below.



(c) Based on the graph, which spring, X or Y, should he choose so that his rocket can fly as high as possible? Explain your answer. [2]

Question Type: Essay
Date Added: Tue 26th Oct 2021

Last Modified: *N/A*
QID#: *29,459,362*

Correctly answered feedback

spring X. The ball traveled a longer distance when the handle were pulled back the same distance and spring X has more elastic spring force so it pushed the rocket further

Incorrectly answered feedback

spring X. The ball traveled a longer distance when the handle were pulled back the same distance and spring X has more elastic spring force so it pushed the rocket further

Answers | Edit | Duplicate | Used In | Reorder Remove From Test