

Primary 4 Science (Term 4) - ACS (2020)

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63 Questions (77 Points)

Question Bank: 19,950 Questions 

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Question 1 Primary 4 Science » Primary 4 Science (Term 4) 2 pts

For each question, four options are given. Make your choice and choose the correct answer. (56 marks)


A snail hides itself in its shell when touched.



This shows that the snail is a living thing because it _____

- A) breathes
- B) needs food
- C) can respond
- D) can reproduce

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,371

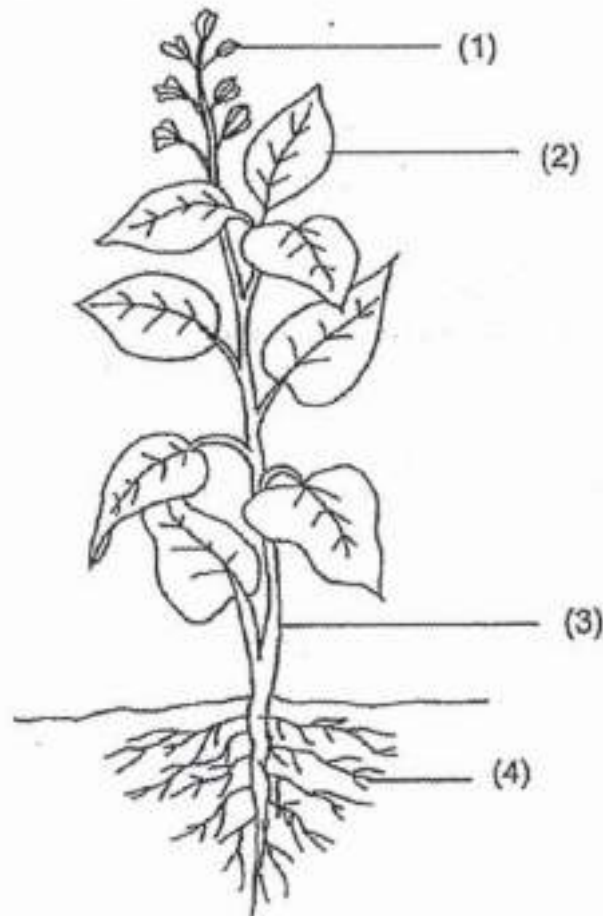
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Question 2

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which part, (1), (2), (3) or (4), holds the plant upright?



- A) 1
- B) 2
- ✓ C) 3
- D) 4

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
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Question 3

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

The arrows (→) in the diagram show the direction of movement of a substance in plants.

roots → stem → leaves

What is this substance?

- A) water



- B) food
- C) soil
- D) air

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,382

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Question 4

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which animal has a pupa as a stage in its life cycle?

- A) frog
- B) beetle
- C) chicken
- D) grasshopper

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,387

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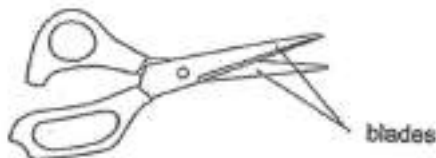
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Question 5

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

The diagram shows a pair of scissors.



Metal is used to make the blades of the scissors because metal _____

- A) is shiny
- B) can block light
- C) does not break easily
- D) can bend without breaking

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,394

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Question 6

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which of the following substances has a fixed shape?

- A) air
- B) milk
- C) oil
- ✓ D) rock

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,399

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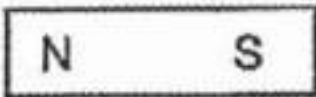
Question 7

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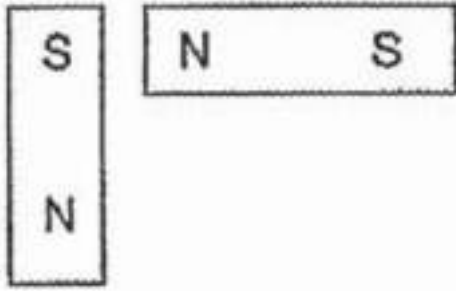
2 pts

In which of the following will the two magnets push each other away?

A)



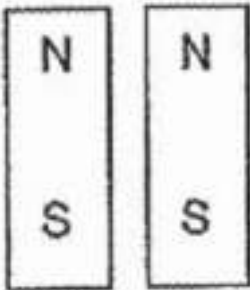
B)



C)



✓ D)



Question Type: Multiple Choice
Randomize Answers: No
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Question 8

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which of the following is a source of light?

A)



the moon

✓ B)



burning log

C)



a leaf

D)



a mirror

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,433

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Question 9

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which of the following is NOT a source of heat?

- A) The Sun
- B) A lighted bulb
- C) A candle flame
- ✓ D) A woollen sweater

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,437

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Question 10

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Which one of the following is the best conductor of heat?

- ✓ A) A metal plate
- B) A paper plate
- C) A plastic plate
- D) A wooden plate

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
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Question 11

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Jane made the following statements on the young of animal P.

Young of animal P:
<ul style="list-style-type: none"> • breathes using gills • does not look like the adult

Based on the observations, animal P is most likely to be a _____.

- A) frog
 B) whale
 C) beetle
 D) butterfly

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,447

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Question 12

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Ai Mei recorded some information about the life cycle of a butterfly and a chicken.

		Butterfly	Chicken
A	Lays eggs in water	No	No
B	Has 4 stages in its life cycle	Yes	Yes
C	The young resembles the adult	No	Yes

Which of the following options shows the correct information about the two life cycles?

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,452

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Question 13

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Richard noticed that the number of caterpillars in his garden decreased after two weeks. He wrote down some reasons for this observation.

- A The caterpillars have died.
- B The caterpillars have laid eggs.
- C The caterpillars have turned into pupae.
- D The caterpillars have been eaten by other animals.

Which of the following are possible reasons to explain why the number of caterpillars decreased?

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

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,464

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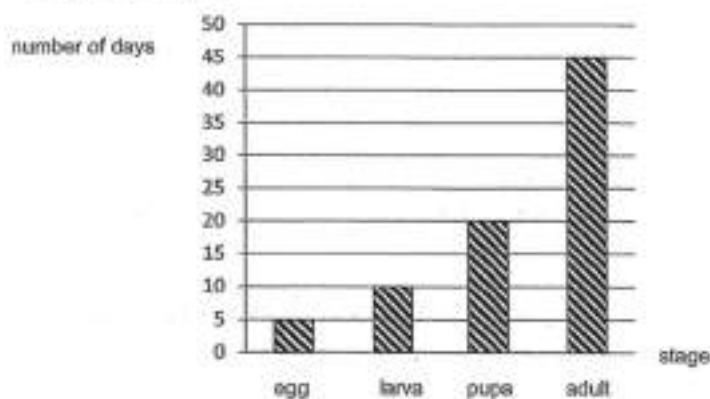
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Question 14

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

The bar graph shows the stages and the number of days that animal Z remains at each stage of its life cycle.



How many days does it take for animal Z to become an adult after hatching from its egg?

- A) 10
- ✓ B) 30
- C) 35
- D) 75

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,470

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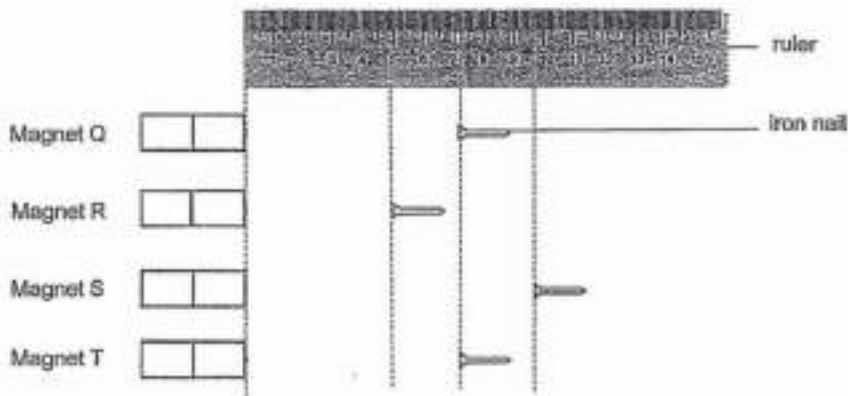
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Question 15

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

John wanted to find out the magnetic strength of four different magnets Q, R, S and T. He moved an iron nail slowly towards magnet Q and measured the distance when the nail was just attracted by the magnet. He repeated this experiment with magnets R, S and T. The results are shown in the diagram.



Based on the above results, the magnetic strength of _____

- ✓ A) Magnet S is the greatest.
- B) Magnets Q and R is the same.
- C) Magnet Q is lesser than Magnet R.
- D) Magnet T is greater than Magnet S.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,481

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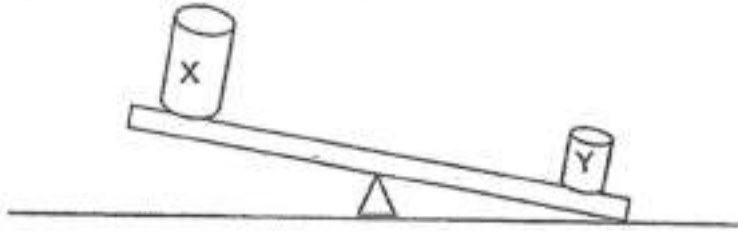
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Question 16

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Two objects X and Y are placed on a balance as shown.



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

- A) Object Y has less mass than object X.
- ✓ B) Object Y has more mass than object X.
- C) Object Y has a bigger volume than object X.
- D) Objects X and Y are made of the same material.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,491

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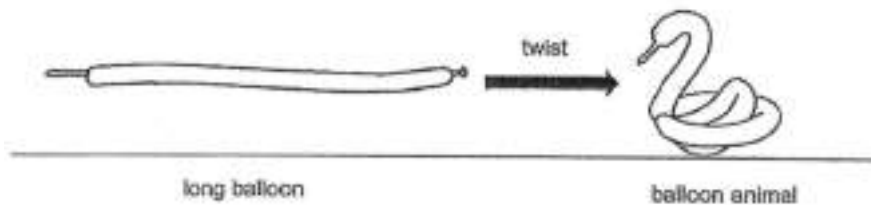
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Question 17

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

George fills up a long balloon with air and twists it to form a 'balloon animal' as shown.



Which of the following statements best explains why he is able to twist the long balloon into a 'balloon animal'?

- A) Air has mass.
- B) Air occupies space.
- ✓ C) Air does not have a definite shape.
- D) Air does not have a definite volume.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,625,498

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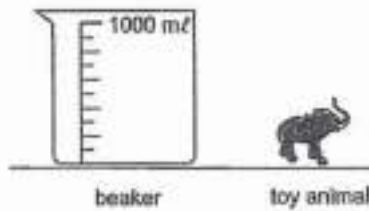
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Question 18

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Leela wanted to find the volume of her toy animal using the beaker shown.



The following are the steps that she took to find the volume of the toy animal.

- A Read the new volume of water.
- B Fill the beaker with 500 ml of water.
- C Lower the toy animal gently into the beaker.
- D Calculate the difference between the old and new volume?

Which of the following shows the correct sequence of steps she took to find out the volume of the toy animal?

- A) A, B, C and D
- B) B, A, C and D
- ✓ C) B, C, A and D
- D) C, B, A and D

Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,625,505

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Question 19

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

All recorded the properties of P, Q and R as shown.

	Does it have mass and volume?	Does it have a definite shape?	Does it have a definite volume?	Can it be compressed?
P	No	No	No	No
Q	Yes	Yes	Yes	No
R	Yes	No	No	Yes

Based on the table above, which of the following correctly identifies P, Q and R?

- A)

P	Q	R
Balloon	Pen	Sponge
- ✓ B)

P	Q	R
Light	Pen	Air
- C)

P	Q	R

Air	Milk	Pen
-----	------	-----

D)

P	Q	R
Heat	Pen	Milk

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
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QID#: 28,626,730

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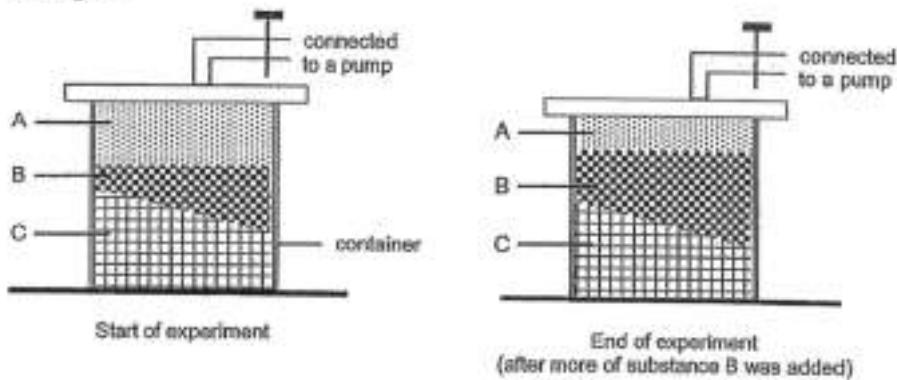
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Question 20

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

At the start of her experiment, Jane had a container that contains three substances A, B and C as shown. Then, she added more of substance B into the container using the one-way pump. The final levels of substances A, B and C at the end of the experiment are shown in the diagrams.



Based on the diagrams above, which of the following correctly identifies the state of substances A, B and C?

- ✓ A)

A	B	C
Gas	Liquid	Solid
- B)

A	B	C
Liquid	Solid	Gas
- C)

A	B	C
Liquid	Gas	Solid
- D)

A	B	C
Gas	Solid	Liquid

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,626,757

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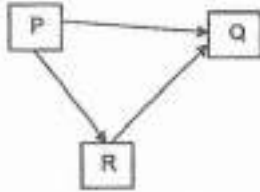
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Question 21

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

James is able to see an object in a brightly-lit room. The arrows (\rightarrow) in the diagram show the paths of light.



Which of the following identifies P, Q and R correctly?

- ✓ A)

P	Q	R
light source	James' eyes	object
- B)

P	Q	R
James' eyes	light source	object
- C)

P	Q	R
light source	object	James' eyes
- D)

P	Q	R
object	James' eyes	light source

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
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QID#: 28,626,848

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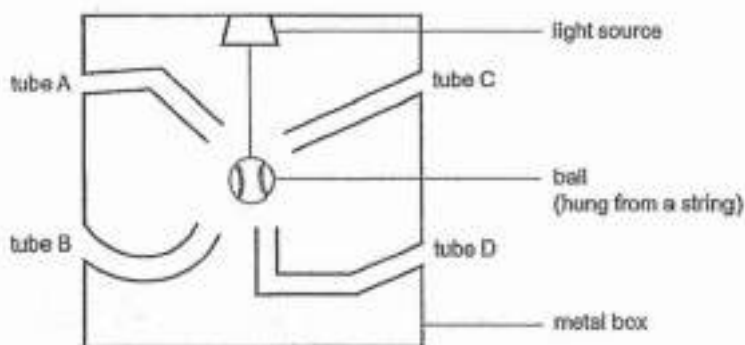
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Question 22

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Edison placed a ball in the middle of a metal box with four hollow tubes and a light source as shown in the diagram.



Based on the diagram above, through which tube can he see the ball?

- A) A
- B) B
- ✓ C) C
- D) D

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,626,857

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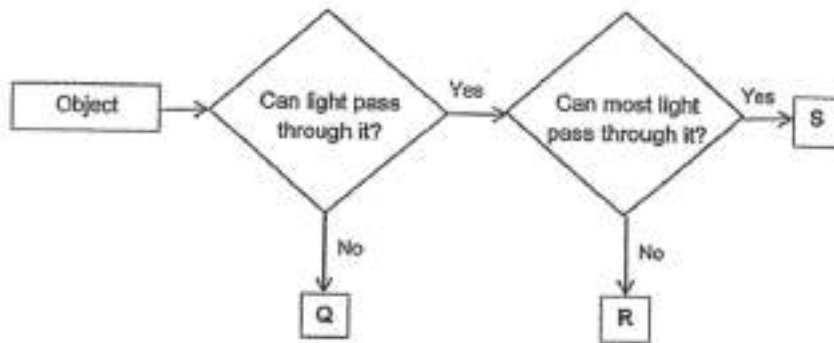
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Question 23

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Study the flow chart carefully.



Based on the flow chart above, which of the following best represents objects Q, R and S?

- A)

Q	R	S
frosted glass	thick cardboard	clear plastic sheet
- ✓ B)

Q	R	S
thick cardboard	frosted glass	clear plastic sheet
- C)

Q	R	S
thick cardboard	clear plastic sheet	frosted glass
- D)

Q	R	S
clear plastic sheet	frosted glass	thick cardboard

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,626,908

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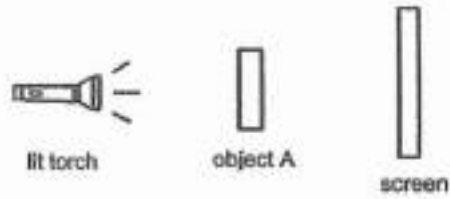
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Question 24

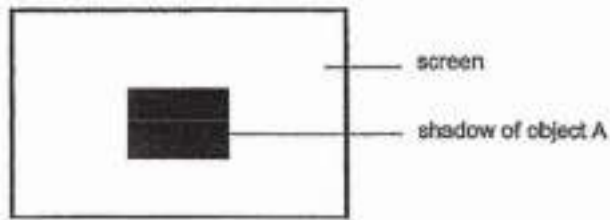
Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Colin carried out an experiment in a dark room using the set-up as shown.



When he switched on the torch, he saw the shadow of object A on the screen as shown in the diagram below.



Based only on the observation above, which of the following statements is true?

- ✓ A) Object A did not allow light to pass through.
- B) Object A allowed most light to pass through.
- C) The shadow changed shape when the screen was moved nearer to object A.
- D) The shadow changed shape when the screen was moved further from object A.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
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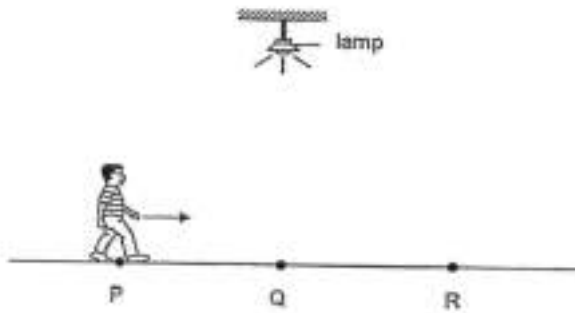
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Question 25

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Edmund walked in a straight line from P to R as shown in the diagram. At Q, he was directly under the lamp. The distance between P and Q is the same as the distance between Q and R.



Based on the diagram above, which of the following statements is correct about the length of Edmund's shadow?

- A) His shadow was the longest when he was at Q.
- ✓ B) His shadow was the shortest when he was at Q.
- C) As he walked from P to Q, his shadow became longer.
- D) As he walked from Q to R, his shadow became shorter.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,626,974

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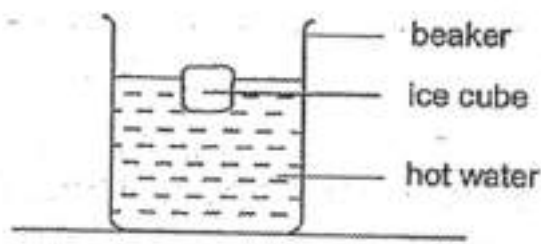
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Question 26

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Andrew placed an ice cube into a beaker filled with hot water.



Which of the following statements is correct?

- A) The ice cube lost heat to the water.
- ✓ B) The water lost heat to the ice cube.
- C) The ice cube did not gain or lose heat.
- D) The water gained heat from the beaker.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,627,231

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

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Question 27

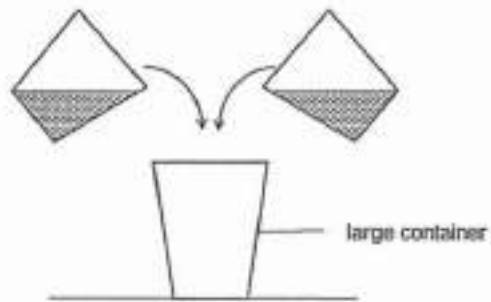
Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Bala filled up two glasses with the same amount of water. The temperatures of water at the start of the experiment are as shown.



Bala then mixed all the water from both glasses into a large container. He immediately measured the temperature of water in the large container.



Based on the information given above, the temperature of water in the large container that was immediately measured by Bala was _____.

- A) 90°C
- B) higher than 90°C
- C) between 0°C to 30°C
- ✓ D) between 30°C to 90°C

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,627,257

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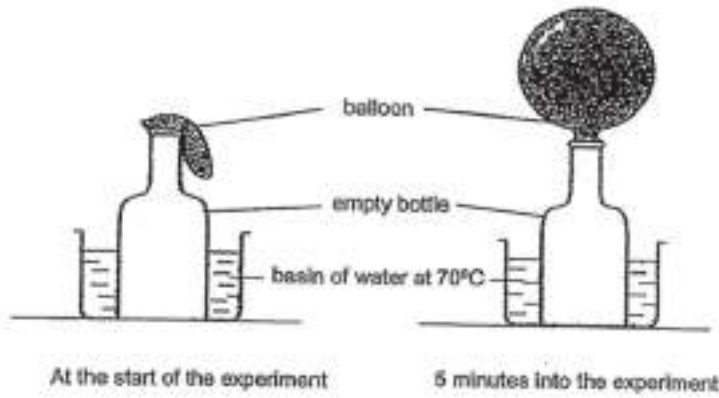
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Question 28

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Danny attached a balloon to an empty bottle. He then immersed the bottle in a basin of water at 70°C as shown.



After a while, the balloon was observed to have changed its shape.

Which of the following statements best explains this observation?

- A) The balloon gained heat and expanded.
- B) The empty bottle gained heat and expanded.
- ✓ C) The air in the bottle gained heat and expanded.
- D) The air in the balloon contracted and took up less space.

Question Type: Multiple Choice
Randomize Answers: No
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,627,268

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Question 29

Primary 4 Science » Primary 4 Science (Term 4)

3 pts

Match the following animals to the correct groups.

Clue

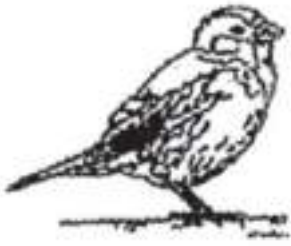
Match



Mammal

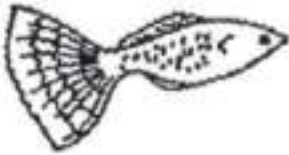
Points: +1 -0

Bird



Points: +1 -0

Fish



Points: +1 -0

Incorrect match option

Amphibian

Question Type: Matching
Shuffle Mode: Shuffle Matches Only
Date Added: Thu 5th Aug 2021
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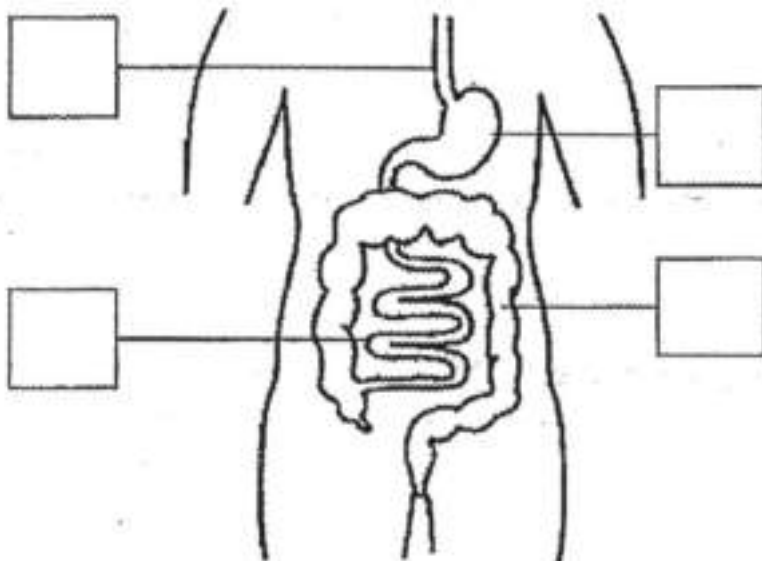
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Question 30

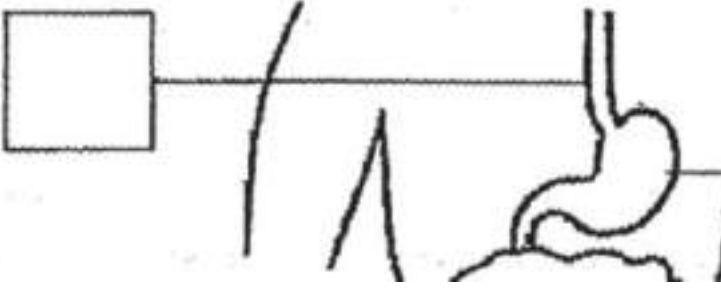
Primary 4 Science » Primary 4 Science (Term 4)

1 pt

The diagram shows part of the human digestive system.
Tick one box to show where the gullet is.



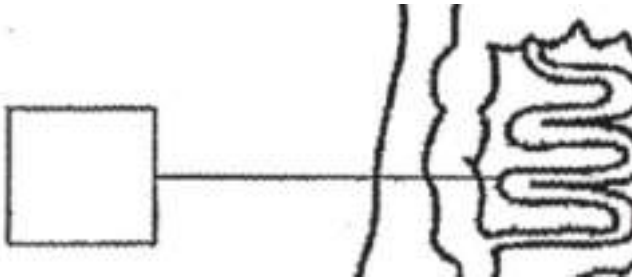
✓ A)



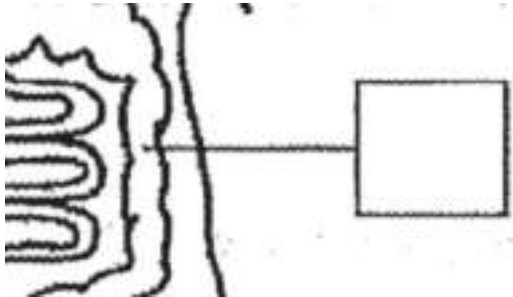
B)



C)



D)



Question Type: Multiple Choice
 Randomize Answers: No
 Date Added: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,627,993

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

[Remove From Test](#)

Question 31

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Fill in the blank using the following helping words below.

Clue

Match

Food from the gullet is next passed on to the _____.

Stomach

Points: +1 -0

*Incorrect match option**Large intestine**Incorrect match option**Small intestine**Incorrect match option**Mouth*

Question Type: Matching
Shuffle Mode: Shuffle Matches Only
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,628,002

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

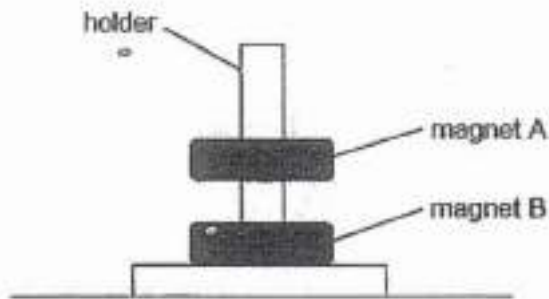
[Remove From Test](#)

Question 32

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Andy placed two ring magnets, A and B, through a holder as shown below.



The holder was made of plastic and did not attract the magnets.

Plastic is a _____ material.

Accepted answers:

- ✓ non-magnetic
- ✓ non - magnetic

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,813

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

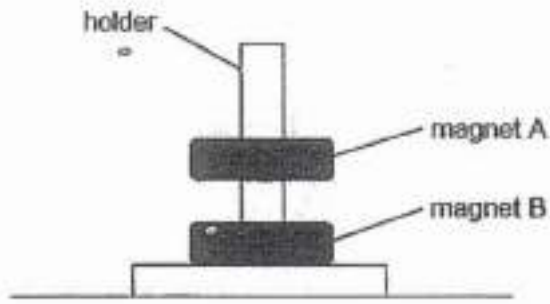
[Remove From Test](#)

Question 33

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Andy placed two ring magnets, A and B, through a holder as shown below.



Why was magnet A floating above magnet B?

Magnet B was _____ magnet A.

Accepted answers:

✓ repelling

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,818

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

[Remove From Test](#)

Question 34

Primary 4 Science » Primary 4 Science (Term 4)

3 pts

Classify the following into matter and non-matter.

Clue

Match

Honey

Matter

Points: +1 -0

Shadow

Non-matter

Points: +1 -0

Marble

Matter

Points: +1 -0

Question Type: Matching
Shuffle Mode: Shuffle Matches Only
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,829

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

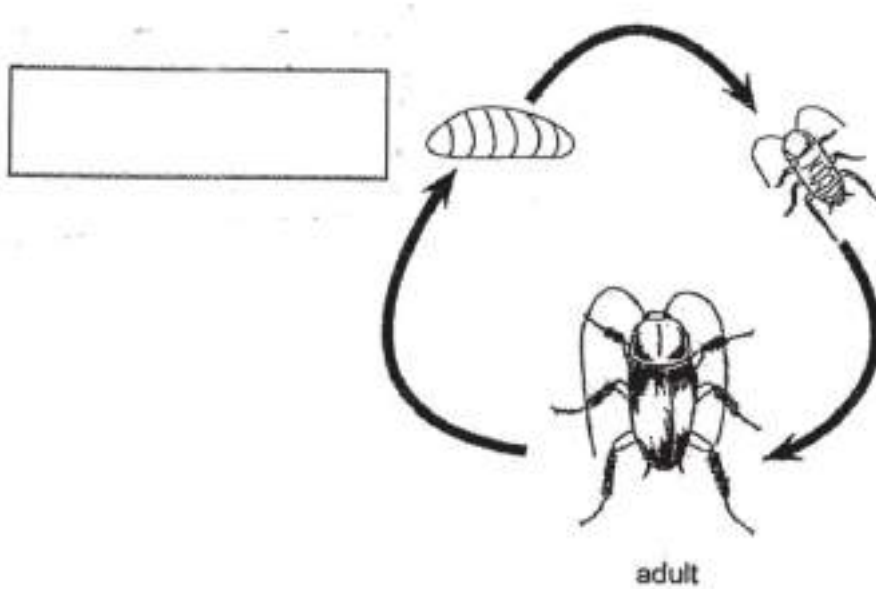
[Remove From Test](#)

Question 35

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

The diagram shows the life cycle of a cockroach.



Label the missing stage above.

Accepted answers:

✓ Egg

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,941

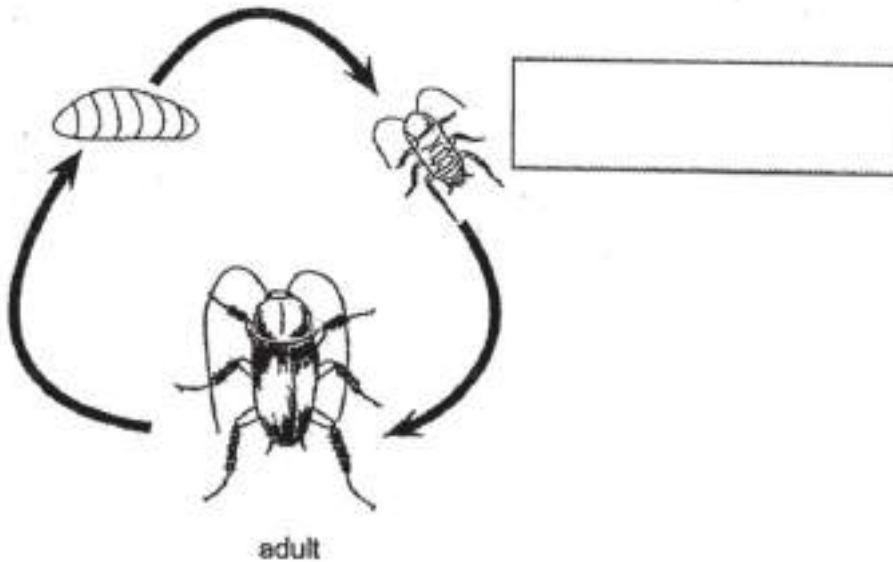
[Answers](#) | [Edit](#) | [Duplicate](#) | [Used In](#) | [Reorder](#)

[Remove From Test](#)

Question 36

Primary 4 Science » Primary 4 Science (Term 4)

1 pt



Label the missing stage above.

Accepted answers:

✓ Nymph

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,951

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

[Remove From Test](#)

Question 37

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

The table describes the life cycles of four animals, P, Q, R and S.

Description	P	Q	R	S
Young resembles the adult	x	✓	✓	✓
Has three stages in its life cycle	x	✓	x	✓
Young goes through moulting	✓	✓	x	x

Based on the table above, which animal, P, Q, R or S best represents a cockroach? (1 mark)

Accepted answers:

✓ Animal R

✓ R

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,979

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

[Remove From Test](#)

Question 38

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

The table describes the life cycles of four animals, P, Q, R and S.

Description	P	Q	R	S
Young resembles the adult	x	✓	✓	✓
Has three stages in its life cycle	x	✓	x	✓
Young goes through moulting	✓	✓	x	x

Based on the table above, state two similarities in the life cycles of animals R and S. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,629,987

Correctly answered feedback

Both animal R and S young resemble the adult and their young does not go through molting.

Incorrectly answered feedback

Both animal R and S young resemble the adult and their young does not go through molting.

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

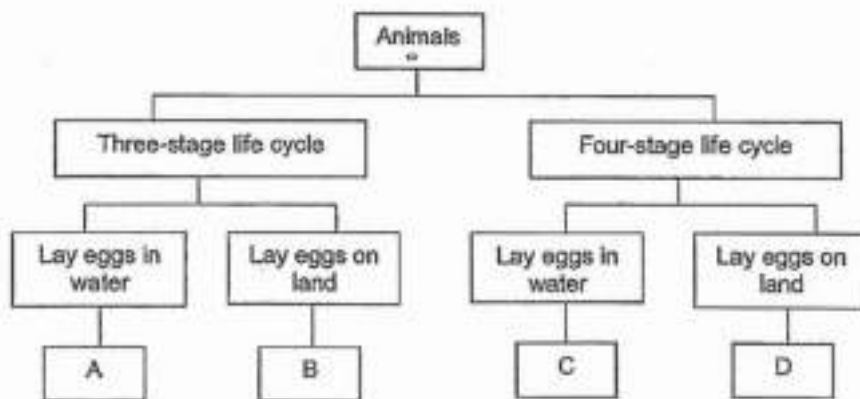
[Remove From Test](#)

Question 39

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Study the classification chart carefully.



Based on the classification chart above, describe animal A. (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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,631,995

Correctly answered feedback

Animal A has a three-stage life cycle and lays eggs in water.

Incorrectly answered feedback

Animal A has a three-stage life cycle and lays eggs in water.

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

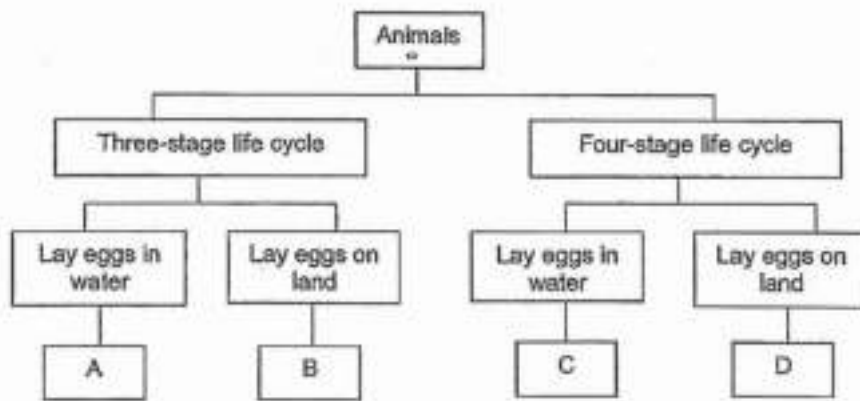
[Remove From Test](#)

Question 40

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Study the classification chart carefully.



State one difference between animals B and C. (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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,007

Correctly answered feedback

Animal B lays eggs on land while animal C lays eggs in water.

Incorrectly answered feedback

Animal B lays eggs on land while animal C lays eggs in water.

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

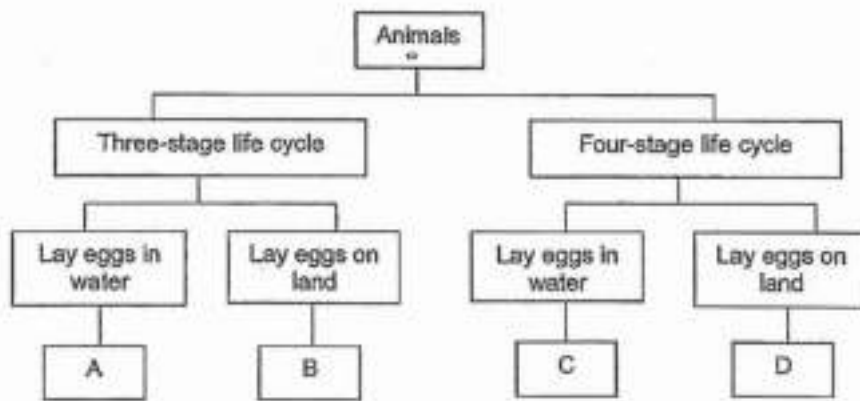
[Remove From Test](#)

Question 41

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Study the classification chart carefully.



Based on the classification chart above, which animal A, B, C or D, best represents a mosquito?

Accepted answers:

- ✓ Animal C
- ✓ C

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,021

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

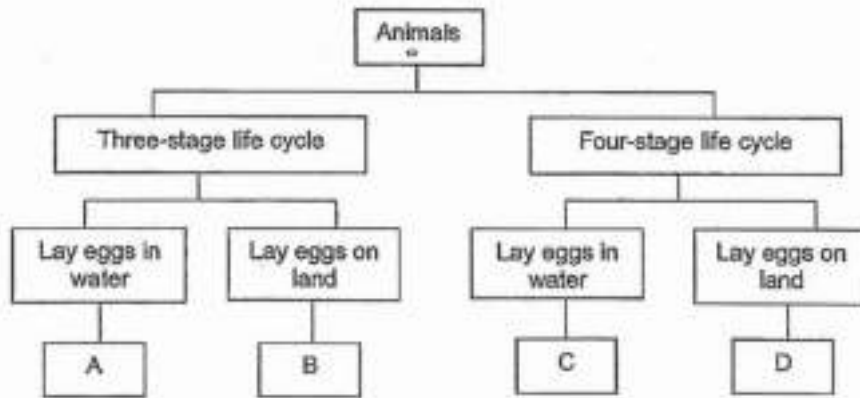
[Remove From Test](#)

Question 42

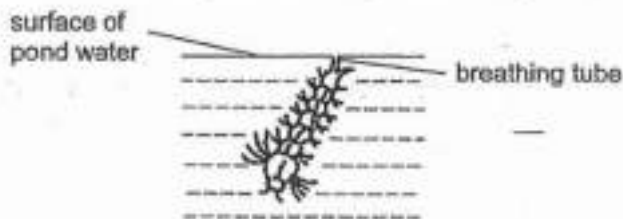
Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Study the classification chart carefully.



A mosquito is considered a pest as it spreads diseases such as dengue fever. The picture shows a stage in the life cycle of a mosquito.



Based on the picture, explain how applying a layer of oil on the surface of the pond water can help to control the number of adult mosquito. [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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,060

Correctly answered feedback

By applying a layer of oil on the surface of the pond, it will block out the air from entering the breathing tube of the mosquito thus the mosquito will not survive which will help maintain a safe number of mosquito.

Incorrectly answered feedback

By applying a layer of oil on the surface of the pond it will block out the air from entering the breathing tube of the mosquito thus the mosquito will not survive which will help maintain a safe number of mosquito.

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

[Remove From Test](#)

Question 43

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Peter has a container with a capacity of 250 cm³. It has 100 cm³ of water inside. He connected a pump to the container and pushed the plunger of the pump once. Each push pumps 50 cm³ of air into the container.



In the table below, write down the volume of air in the container before and after air was pumped into the container. (2 marks)

Volume of air in container before air was pumped (cm ³)	Volume of air in container after air was pumped (cm ³)

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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,085

Correctly answered feedback

Both volume of air before and after is 150cm³.

Incorrectly answered feedback

Both volume of air before and after is 150cm³.

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

[Remove From Test](#)

Question 44

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Peter has a container with a capacity of 250 cm³. It has 100 cm³ of water inside. He connected a pump to the container and pushed the plunger of the pump once. Each push pumps 50 cm³ of air into the container.



What property of air is shown in this 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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,090

Correctly answered feedback

Air can be compressed.

Incorrectly answered feedback

Air can be compressed.

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

[Remove From Test](#)

Question 45

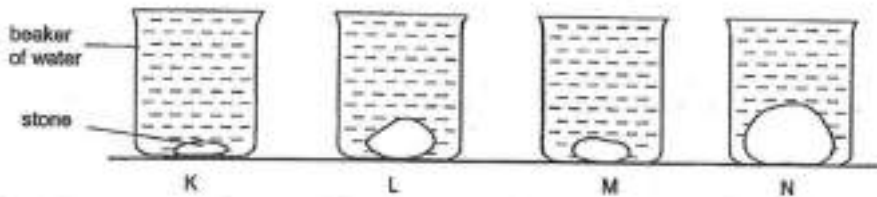
Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Peter has a container with a capacity of 250 cm^3 . It has 100 cm^3 of water inside. He connected a pump to the container and pushed the plunger of the pump once. Each push pumps 50 cm^3 of air into the container.



Next, Peter took four identical beakers, K, L, M and N. He placed four stones of a different volume into each beaker. Then, he filled each beaker to the brim with water as shown in the diagram.



Which of the beakers, K, L, M or N is filled with the greatest amount of water? [1]

Accepted answers:

✓ Beaker K

✓ K

Question Type: Free Text
 Date Added: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,098

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

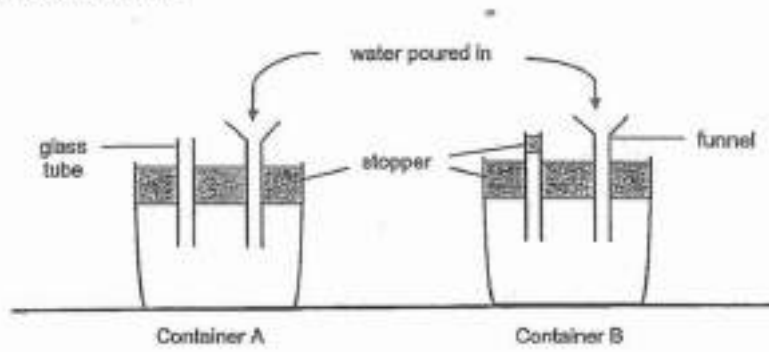
[Remove From Test](#)

Question 46

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Jason conducted an experiment using two similar containers A and B, each filled with a glass tube and a funnel. He put a stopper in the glass tube that was fitted into container B. Next, he poured water into each funnel.



In which container, A or B, can water flow in faster?

Accepted answers:

- ✓ Container A
- ✓ A

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,109

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

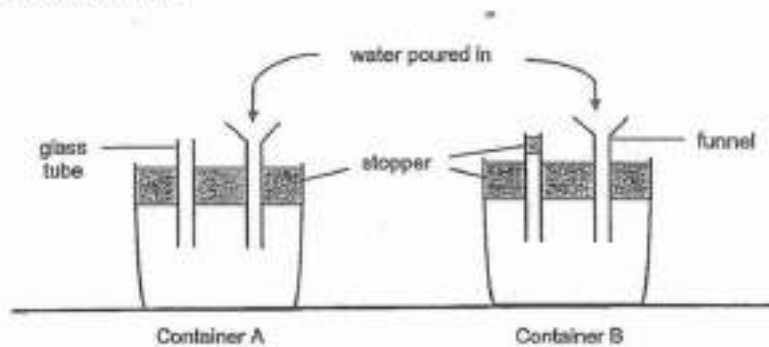
[Remove From Test](#)

Question 47

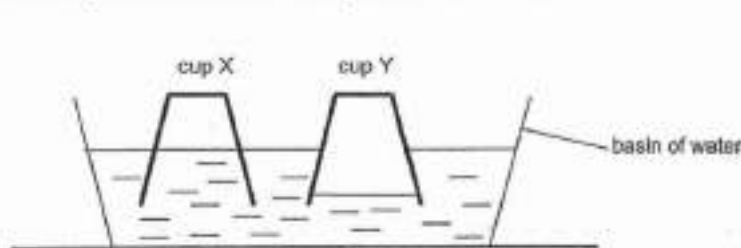
Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Jason conducted an experiment using two similar containers A and B, each filled with a glass tube and a funnel. He put a stopper in the glass tube that was fitted into container B. Next, he poured water into each funnel.



Jason conducted another experiment with two identical plastic cups X and Y. He inverted both cups into a basin of water. One of the cups had a hole at the bottom while the other cup did not have any holes. The result of the experiment is as shown.



Based on the diagram above, which cup, X or Y had a hole at the bottom?

Accepted answers:

✓ Cup X

✓ X

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,121

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

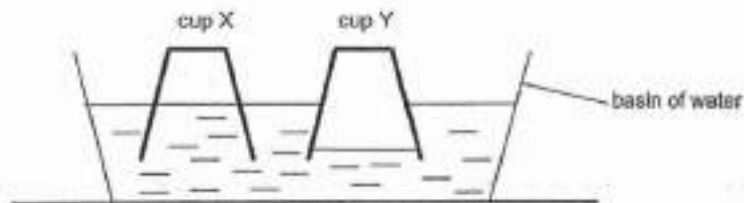
[Remove From Test](#)

Question 48

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Jason conducted another experiment with two identical plastic cups X and Y. He inverted both cups into a basin of water. One of the cups had a hole at the bottom while the other cup did not have any holes. The result of the experiment is as shown.



Explain your answer in the previous question. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,139

Correctly answered feedback

If a cup has a hole in it, the amount of water flow into it will be the same level as the water level of the basin of water which is shown in the diagram cup X does. Thus cup X does have a hole in it.

Incorrectly answered feedback

If a cup has a hole in it, the amount of water flow into it will be the same level as the water level of the basin of water which is shown in the diagram cup X does. Thus cup X does have a hole in it.

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

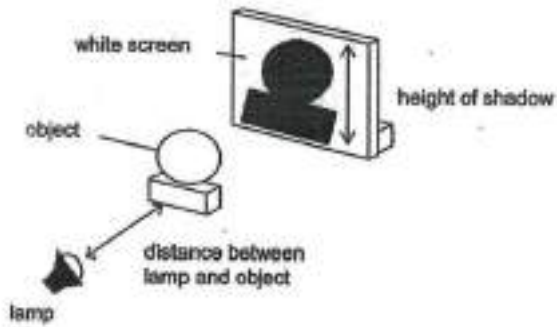
[Remove From Test](#)

Question 49

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Terry wanted to find out how the distance between the lamp and the object affects the height of the shadow formed on the screen. He set up an experiment as shown.



He recorded his results in the table below.

Distance between lamp and object (cm)	Height of shadow formed on the white screen (cm)
20	7
15	9
10	11
5	13

Predict the height of the shadow formed on the white screen if the distance between the lamp and the object is 8 cm.

Ans: ____ cm

Accepted answers:

- ✓ 12cm
- ✓ 12 cm
- ✓ 12

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,155

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

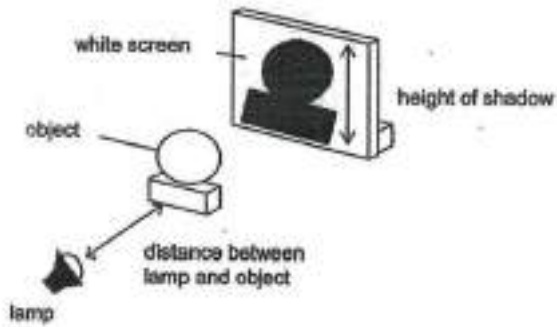
[Remove From Test](#)

Question 50

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Terry wanted to find out how the distance between the lamp and the object affects the height of the shadow formed on the screen. He set up an experiment as shown.



He recorded his results in the table below.

Distance between lamp and object (cm)	Height of shadow formed on the white screen (cm)
20	7
15	9
10	11
5	13

Where should the object be placed so that the height of the shadow is the same as the height of the object? (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,161

Correctly answered feedback

The object should be placed right on the screen.

Incorrectly answered feedback

The object should be placed right on the screen.

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

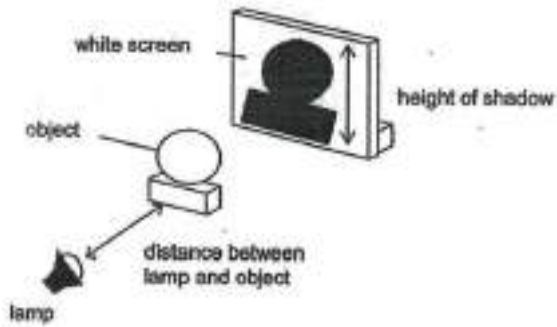
[Remove From Test](#)

Question 51

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Terry wanted to find out how the distance between the lamp and the object affects the height of the shadow formed on the screen. He set up an experiment as shown.



He recorded his results in the table below.

Distance between lamp and object (cm)	Height of shadow formed on the white screen (cm)
20	7
15	9
10	11
5	13

Based on the results in the table above, what could Terry conclude? (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,194

Correctly answered feedback

The bigger the distance between the lamp and the object the shorter the height of the shadow formed on the screen.

Incorrectly answered feedback

The bigger the distance between the lamp and the object the shorter the height of the shadow formed on the screen.

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

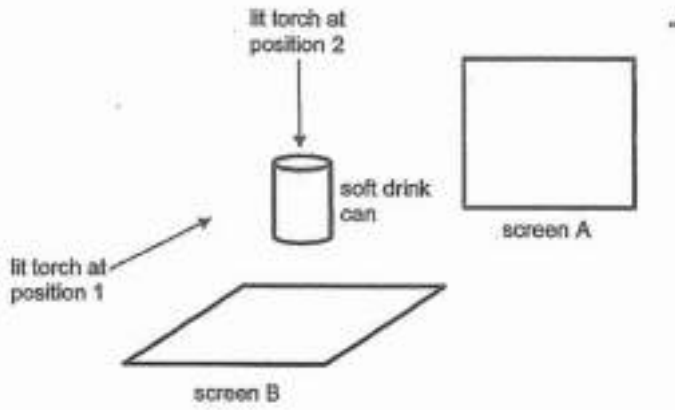
[Remove From Test](#)

Question 52

Primary 4 Science » Primary 4 Science (Term 4)

2 pts

Devi shines a lit torch on a soft drink can from positions 1 and 2. As a result, shadows are formed on screens A and B.



Name the shape of the shadow that Devi will see on screens A and B. Fill in the blank using the following helping words.

Clue

Match

Screen A: _____

Rectangle

Points: +1 -0

Screen B: _____

Circle

Points: +1 -0

Incorrect match option

Triangle

Incorrect match option

Square

Question Type: Matching
Shuffle Mode: Shuffle Matches Only
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,213

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

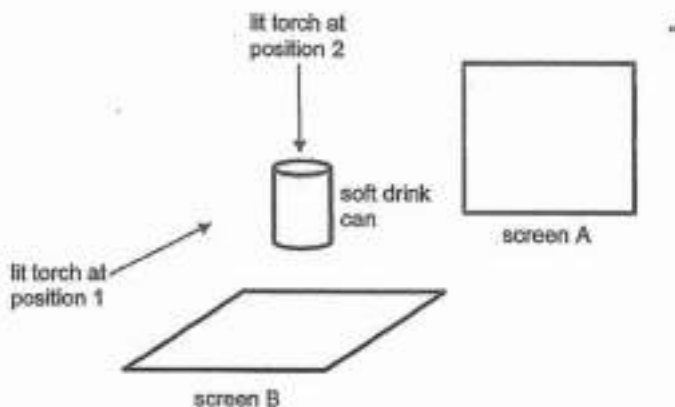
[Remove From Test](#)

Question 53

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Devi shines a lit torch on a soft drink can from positions 1 and 2. As a result, shadows are formed on screens A and B.



Based on your answer in the previous question, what does this experiment show about the effect of the position of light source on shadows formed? (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,241

Correctly answered feedback

The different position of the lit torch, the different shape of the object.

Incorrectly answered feedback

The different position of the lit torch, the different shape of the object.

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

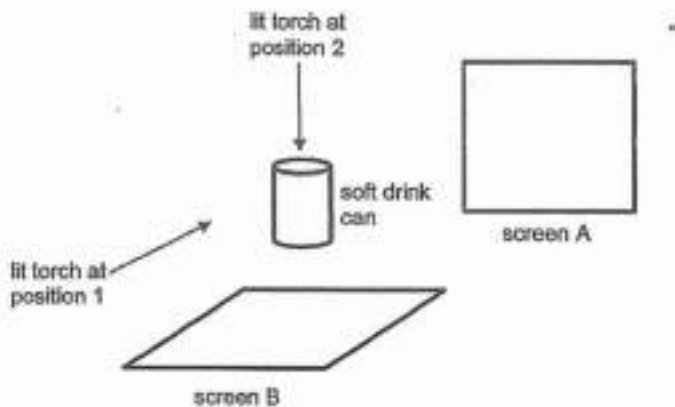
[Remove From Test](#)

Question 54

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Devi shines a lit torch on a soft drink can from positions 1 and 2. As a result, shadows are formed on screens A and B.



Describe how the size of the shadow will change when the screen is moved closer to the object. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,256

Correctly answered feedback

The height of the shadow will decrease.

Incorrectly answered feedback

The height of the shadow will decrease.

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

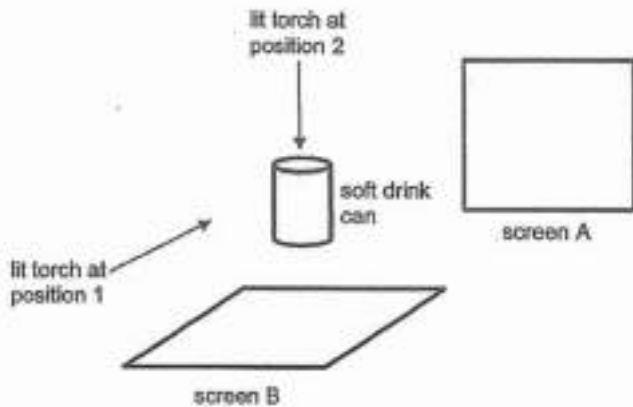
[Remove From Test](#)

Question 55

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Devi shines a lit torch on a soft drink can from positions 1 and 2. As a result, shadows are formed on screens A and B.



Explain your answer to the previous question. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,315

Correctly answered feedback

When the object is farther away from the light source and nearer to the screen, it's height decrease.

Incorrectly answered feedback

When the object is farther away from the light source and nearer to the screen, it's height decrease.

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

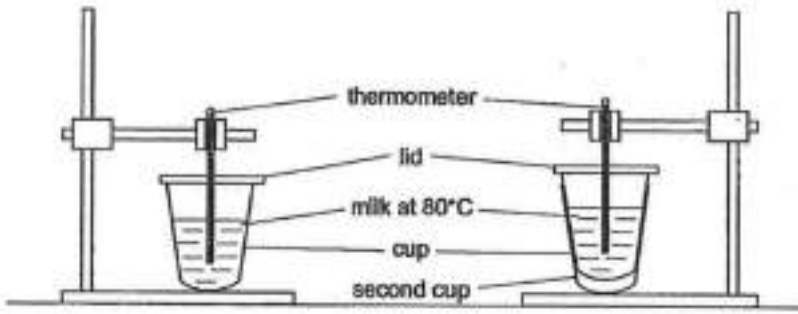
[Remove From Test](#)

Question 56

Primary 4 Science » Primary 4 Science (Term 4)

1 pt

Jimmy prepared the following set-ups as shown in the diagram.



The temperature of the milk in each set-up is recorded at ten-minute intervals as shown in the table below.

	Time (minute)					
	0	10	20	30	40	50
Temperature (°C) of milk in set-up A	80	80	40	25	25	25
Temperature (°C) of milk in set-up B	80	70	60	40	25	25

Which set-up, A or B kept the milk warmer for a longer period of time?

Set-up _____

Accepted answers:

- ✓ Set-up B
- ✓ Set - up B
- ✓ B

Question Type: Free Text
Date Added: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,334

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

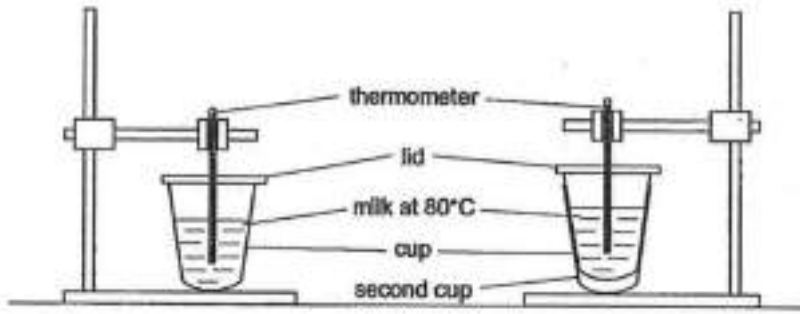
[Remove From Test](#)

Question 57

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Jimmy prepared the following set-ups as shown in the diagram.



The temperature of the milk in each set-up is recorded at ten-minute intervals as shown in the table below.

	Time (minute)					
	0	10	20	30	40	50
Temperature (°C) of milk in set-up A	80	80	40	25	25	25
Temperature (°C) of milk in set-up B	80	70	60	40	25	25

Explain how the set-up stated in the previous question helped keep the milk warmer? (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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,349

Correctly answered feedback

The milk in set up B lost heat due to the surrounding air.

Incorrectly answered feedback

The milk in set up B lost heat due to the surrounding air.

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

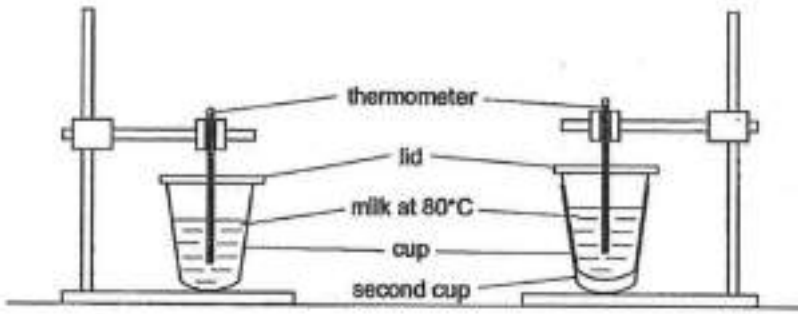
[Remove From Test](#)

Question 58

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Jimmy prepared the following set-ups as shown in the diagram.



The temperature of the milk in each set-up is recorded at ten-minute intervals as shown in the table below.

	Time (minute)					
	0	10	20	30	40	50
Temperature (°C) of milk in set-up A	80	80	40	25	25	25
Temperature (°C) of milk in set-up B	80	70	60	40	25	25

Explain why there was no difference in the temperature of milk between both set-ups from the 40th minute onwards. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,400

Correctly answered feedback

The temperature of the milk reached room temperature.

Incorrectly answered feedback

The temperature of the milk reached room temperature.

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

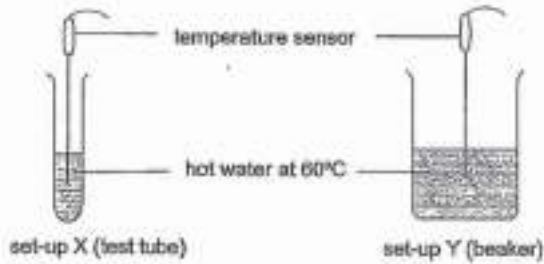
[Remove From Test](#)

Question 59

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Kieran carried out an experiment to investigate how fast heat is lost from a test tube and a beaker as shown. The test tube and beaker each contained a different amount of hot water at 80°C.



The temperature of water in the test tube and beaker was taken using a temperature sensor over a period of time. The table below shows the results.

	Temperature of water (°C)					
set-up X (test tube)	60	45	33	29	28	28
set-up Y (beaker)	60	52	45	39	35	32

What is the changed variable in Kieran's 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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,442

Correctly answered feedback

The changed variable is the amount of liquid.

Incorrectly answered feedback

The changed variable is the amount of liquid.

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

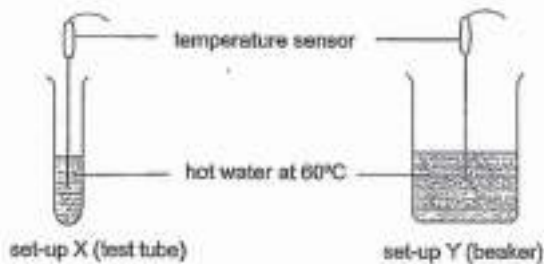
[Remove From Test](#)

Question 60

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Kieran carried out an experiment to investigate how fast heat is lost from a test tube and a beaker as shown. The test tube and beaker each contained a different amount of hot water at 80°C.



The temperature of water in the test tube and beaker was taken using a temperature sensor over a period of time. The table below shows the results.

	Temperature of water (°C)					
set-up X (test tube)	60	45	33	29	28	28
set-up Y (beaker)	60	52	45	39	35	32

Based on the results above, what can you conclude about how fast heat is lost from the hot water in

set-up X compared to the hot water in set-up 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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,460

Correctly answered feedback

The lesser the amount of water the faster the heat lost, set up X has lesser water so heat lost is faster compared to set up Y which has more water will take longer time to cool down.

Incorrectly answered feedback

The lesser the amount of water the faster the heat lost, set up X has lesser water so heat lost is faster compared to set up Y which has more water will take longer time to cool down.

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

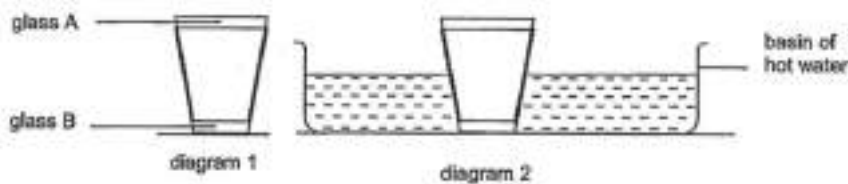
[Remove From Test](#)

Question 61

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Kelvin had two glasses that were tightly stuck as shown in diagram 1. He managed to separate them by dipping glass B into a basin of hot water as shown in diagram 2.



Explain how placing glass B into a basin of hot water enabled Kelvin to separate the two glasses. (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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,494

Correctly answered feedback

Glass B will heat up and expand while glass A will not gain heat and remain the same. Thus glass B will expand making glass A easy to pull out.

Incorrectly answered feedback

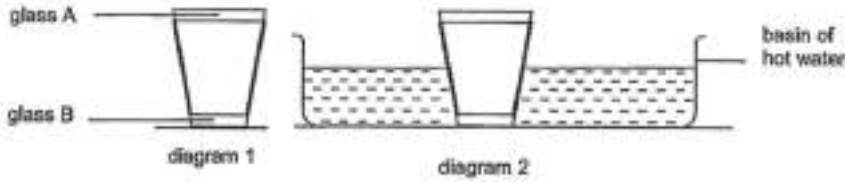
Glass B will heat up and expand while glass A will not gain heat and remain the same. Thus glass B will expand making glass A easy to pull out.

Question 62

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

Kelvin had two glasses that were tightly stuck as shown in diagram 1. He managed to separate them by dipping glass B into a basin of hot water as shown in diagram 2.



State another method to separate the two glasses. (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: Thu 5th Aug 2021
 Last Modified: N/A
 QID#: 28,632,511

Correctly answered feedback

Place ice cubes in glass A.

Incorrectly answered feedback

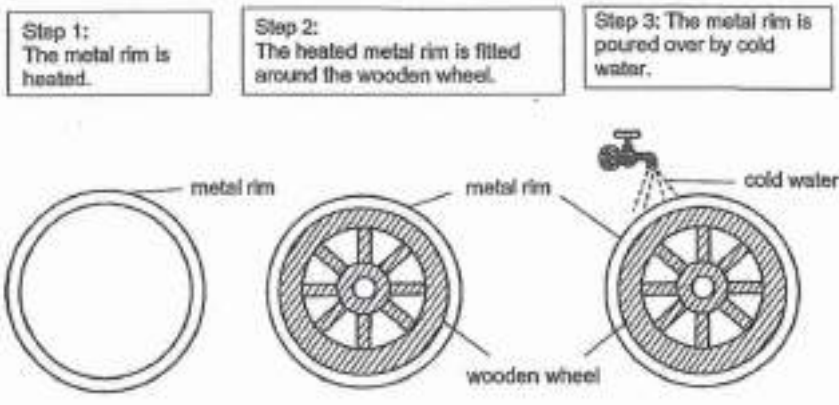
Place ice cubes in glass A.

Question 63

Primary 4 Science » Primary 4 Science (Term 4)

0 pts

A metal rim can be fitted tightly around a wooden wheel using the following steps as shown in the diagrams below.



Based on Kelvin's experiment, explain how each of the following steps helped fit the metal rim tightly around the wooden wheel. (2 marks)

Step	Explanation
1. The metal rim is heated.	

3. The metal rim is poured over by cold water.

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: Thu 5th Aug 2021
Last Modified: N/A
QID#: 28,632,635

Correctly answered feedback

Step	Explanation
1. The metal rim is heated.	The heat caused the metal ring expand so that it will be bigger than the wooden wheel.
3. The metal rim is poured over by cold water.	The cold water will make the metal ring to contract and tighten the wooden wheel.

Incorrectly answered feedback

Step	Explanation
1. The metal rim is heated.	The heat caused the metal ring expand so that it will be bigger than the wooden wheel.
3. The metal rim is poured over by cold water.	The cold water will make the metal ring to contract and tighten the wooden wheel.

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