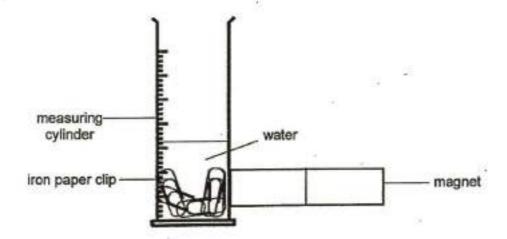
Test:	Primary 5 Science	ce (Term 3) - AC	S		
Points:	24 points				
Name:			_	Score:	
Date:					
Signature:			<u> </u>		
Only selection	le choice answers ct one answer ct multiple answer				
Question 1	of 26		Prima	ry 5 Science (Term 3)	2 pts
The table indicates t	pption (A, B, C or below shows som hat the substance	D) below. (11 x te information about that property.	2 marks) out three substance Substance	e correct answer. Ch	
	roperties	A	В	С	

		Substance	
Properties	A	В	С
Has a definite shape	√		
Occupies space	1	1	1
Has a definite volume	1		1

Which of the following correctly identifies the state of each substance?

(A)	Substance A	Substance B	Substance C
	liquid	solid	gas
○ B)	Substance A	Substance B	Substance C
	solid	liquid	gas
(C)	Substance A	Substance B	Substance C
	solid	gas	liquid
(D)	Substance A	Substance B	Substance C
	gas	solid	liquid

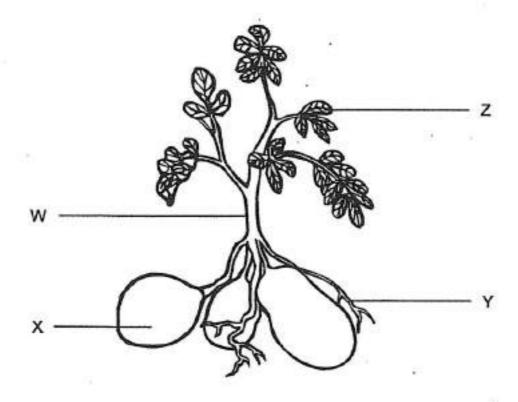
Nora was given a measuring cylinder with water and iron paper clips. She decided to use a magnet to remove the paper clips. She placed the magnet as shown and slid it up until the paper clips were removed.



What characteristic(s) of a magnet is/are applied in her experiment?

- A: Magnets-repel each other.
- B: Magnets attract magnetic materials.
- C: The magnetic force is the strongest at its poles:
- D: Magnetic force can pass through some materials
- A) Bonly
- **B**) B and D only
- C) A and C only
- **D)** A, C and D only

Maya observed the potato plant shown.



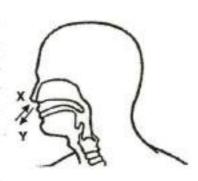
She made some statements about the potato plant.

- A: Z makes food for the plant.
- B: X stores excess food for the plant.
- C: Y absorbs water and mineral salts from the soil
- D: W has tubes that carry only food from one part of the plant to another.

Which of her statements are correct?

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

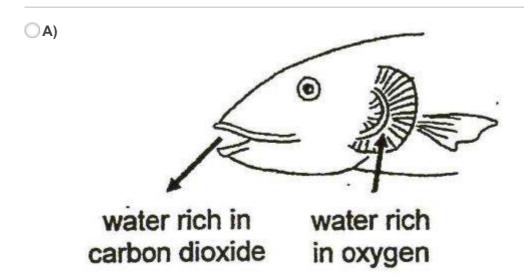
The diagram shows a part of the human respiratory system, X represents air entering the nose and Y represents air leaving the nose.

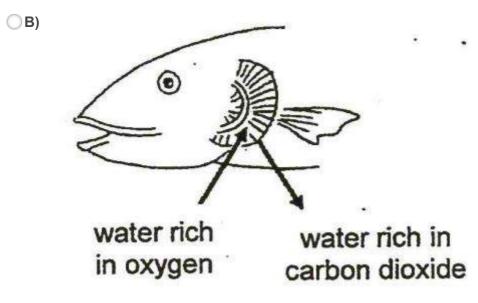


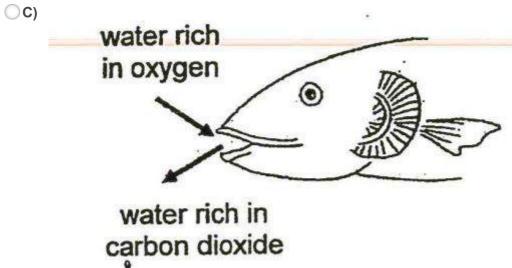
Which of the following correctly compares X and Y?

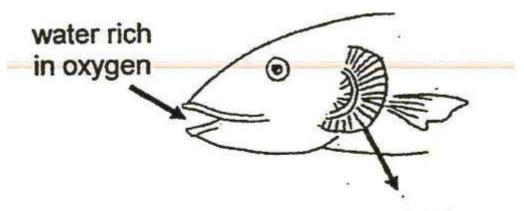
) [x			Y	
	Supply of oxygen	Supply of carbon dioxide	Supply of water vapour	Supply of oxygen	Supply of carbon dioxide	Supply of water vapour
rio	ch poor poor	poor rich rich	h			
) [x			Y	
	Supply of oxygen	Supply of carbon dioxide	Supply of water vapour	Supply of oxygen	Supply of carbon dioxide	Supply of water vapour
) [ch poor rich	poor rich poo	01		Y	
		Supply of	Supply of water	Supply of	Supply of carbon	Supply of water
	Supply of oxygen	carbon dioxide		oxygen	dioxide	vapour
po	oxygen	1 (2000) (200) (200)	vapour	oxygen	dioxide	vapour
) [oxygen	dioxide	vapour	oxygen	dioxide	vapour

Which diagram shows how a fish breathes?









water rich in carbon dioxide

Question 6 of 26

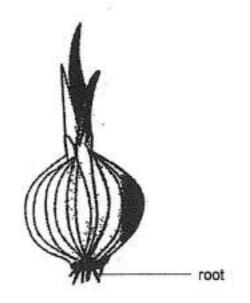
Primary 5 Science (Term 3)

2 pts

Study the table of Cells W, X, Y and Z. A tick (<) indicates that the cell part is present.

Cell Part	Cell W	Cell X	Cell Y	Cell Z
Cytoplasm	1	1	1	1
Cell membrane	V	V	✓	1
Cell wall			1	1
Nucleus		1	1.	1
Chloroplast				1

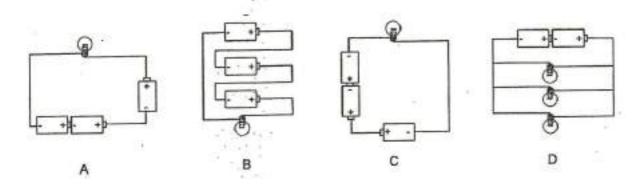
The diagram shows an onion.



Which cell most likely represents the root of the onion?

- A) Cell W
- OB) Cell X
- C) Cell Y
- OD) Cell Z

The diagrams below show some electrical circuits. Which a circuits will produce the most brightly lit bulbs?



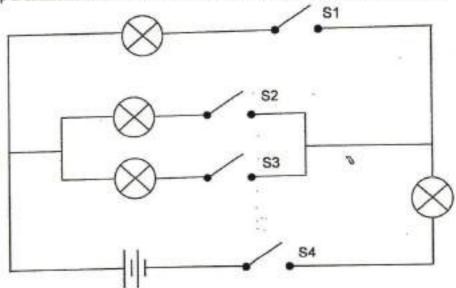
- **A)** A and B only
- **B)** A and C only
- OC) A, B and C only
- **D)** B, C and D only

Question 8 of 26

Primary 5 Science (Term 3)

2 pts

Shay set up a circuit as shown. All batteries and bulbs were in working condition.

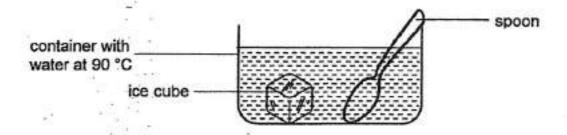


All the bulbs were lit when all the switches were closed. No bulbs lit up when he opened one of the switches.

Which switch did he open?

- **A)** S1
- B) S2
- **C)** S3
- **D)** S4

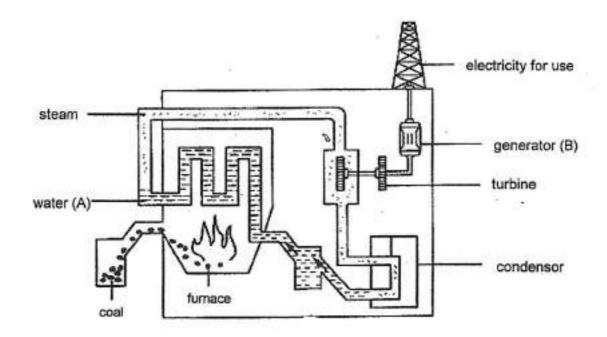
Mr Seng places a spoon and an ice cube into a container of hot water of 90°C.



Which of the statements below is incorrect?

- A) The water loses heat to the ice cube.
- **B)** The ice cube loses heat to the water.
- C) The spoon gains heat from the water.
- D) The spoon loses heat to the surrounding air.

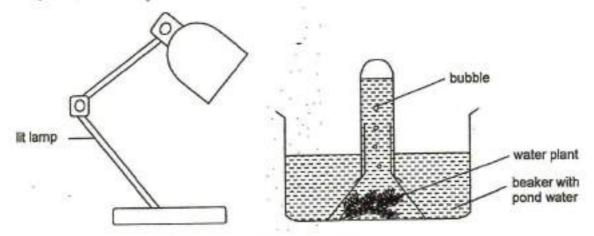
The diagram shows the main parts of a power station. Coal is burnt to change water into steam which is then used to turn the turbine.



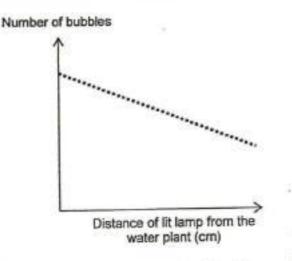
Which of the following correctly shows the main energy changes from A to B in the diagram?

- A) heat energy --> heat energy --> kinetic energy --> kinetic energy
- B) kinetic energy --> heat energy --> kinetic energy --> electrical energy
- C) heat energy --> kinetic energy --> kinetic energy --> electrical energy
- OD) chemical potential energy --> heat energy --> kinetic energy --> kinetic energy --> electrical energy

Bryan set up an experiment as shown.



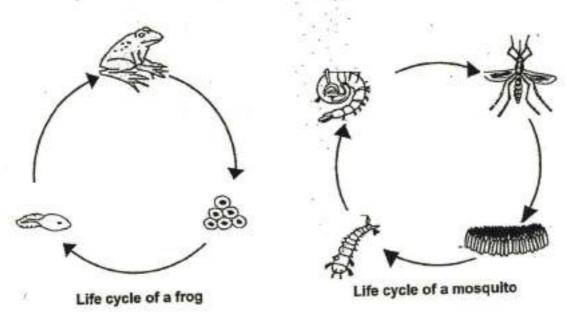
He then plotted a graph based on the number of bubbles produced.



Which of the following shows the best relationship between the distance of the lit lamp from the water plant and the rate of photosynthesis based on the graph?

- A) The distance of the lit lamp from the water plant affects the rate of photosynthesis.
- B) The distance of the lit lamp from the water plant has no effect on the rate of photosynthesis.
- As the distance of the lit lamp from the water plant increases, the rate of photosynthesis decreases.
- OD) As the distance of the lit lamp from the water plant decreases, the rate of photosynthesis decreases.

Compare the two life cycles.

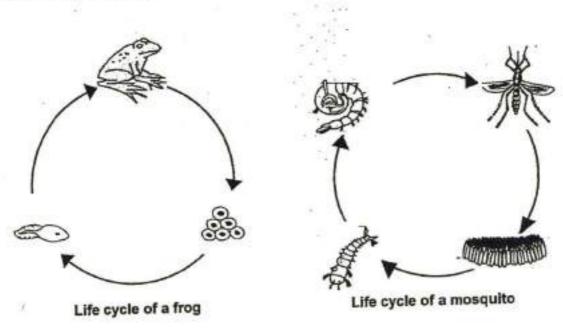


State a similarity and a difference between the two life cycles. (2 marks)

Similarity:		
-		
Difference:		

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.

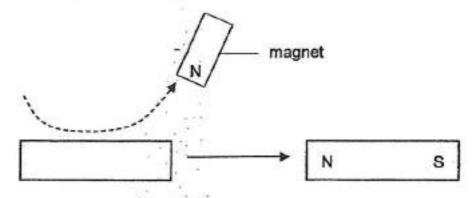
Compare the two life cycles.



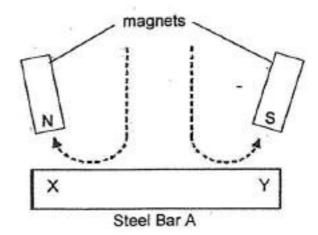
State the difference in the way the young and the adult frog breathe. (1 mark)

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.

An iron bar was magnetised using the "stroke" method as shown.



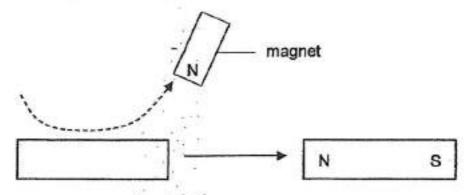
Two magnets were used to magnetise Steel Bar A using the same method.



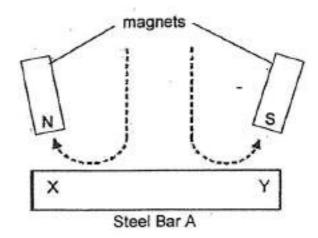
Identify the poles of Steel Bar A at X and Y respectively.

1. []	At X:	A.	North Pole
2. []	At Y:	B.	South Pole

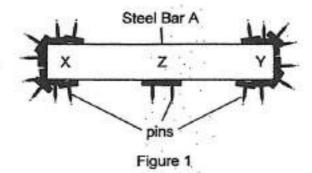
An iron bar was magnetised using the "stroke" method as shown.



Two magnets were used to magnetise Steel Bar A using the same method.



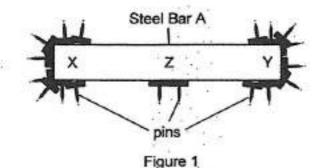
Jo dipped Steel Bar A into a tray of iron pins. He observed the following result shown in Figure 1.



What can Jo conclude about the magnetic strength of parts X, Y and Z of Steel Bar A based on his result? (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.

Jo dipped Steel Bar A into a tray of iron pins. He observed the following result shown in Figure 1.



Jo was then given a rod. What can he do to find out if it is a magnet? (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.

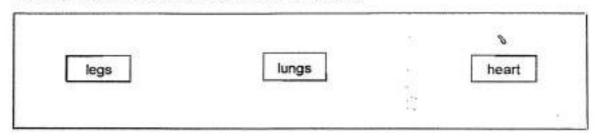
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 17 of 26

Primary 5 Science (Term 3)

0 pts

The diagram below shows three parts of a human body.



In the diagram, draw arrows to show how blood rich in oxygen is circulated to the legs. (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.

Explain clearly the function of the circulatory system. (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.

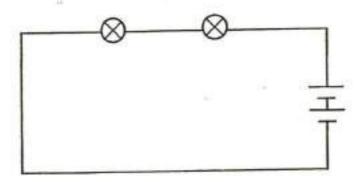
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 19 of 26

Primary 5 Science (Term 3)

0 pts

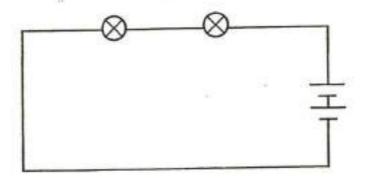
Nathan set up a circuit as shown. The bulbs and batteries are identical and in working condition.



State two changes Nathan can make to the circuit so that each bulb will be brighter. (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.

Nathan set up a circuit as shown. The bulbs and batteries are identical and in working condition.



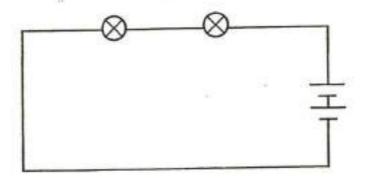
Nathan repeated the experiment with a different number of batteries. The results of the experiment are shown in the table based on a rating scale of 1 to 3 stars where 1 star represents the bulbs being least bright and 3 stars represent them being the brightest.

Number of batteries	Rating scale
3	*
4	**
5	***

What was the aim of Nathan'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.

Nathan set up a circuit as shown. The bulbs and batteries are identical and in working condition.



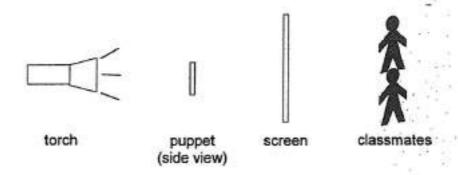
Nathan repeated the experiment with a different number of batteries. The results of the experiment are shown in the table based on a rating scale of 1 to 3 stars where 1 star represents the bulbs being least bright and 3 stars represent them being the brightest.

Number of batteries	Rating scale
3	*
4	**
5	***

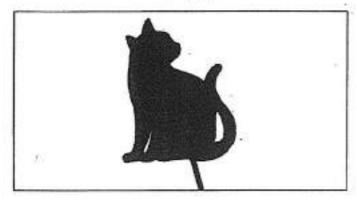
When a sixth battery was added to the circuit, the bulbs did not light up even though the batteries were arranged in the correct way. Explain why. (1 mark)

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.

Julie prepared a shadow puppet show for her classmates as shown. She made puppets using cardboard. Her classmates are only able to see dark shadows on the screen.



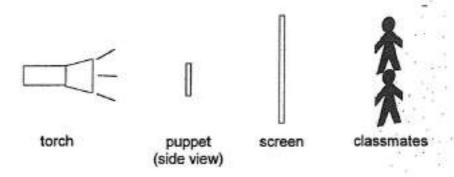
The diagram below shows a shadow cast by a puppet.



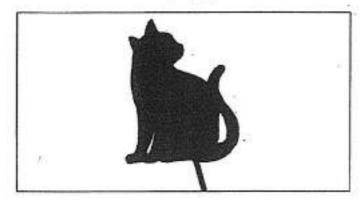
State two properties of light. (1 mark)

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.

Julie prepared a shadow puppet show for her classmates as shown. She made puppets using cardboard. Her classmates are only able to see dark shadows on the screen.



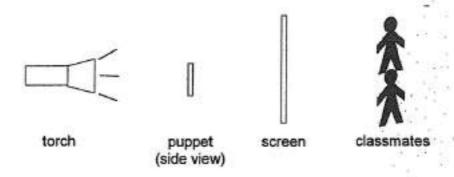
The diagram below shows a shadow cast by a puppet.



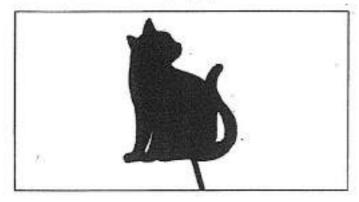
Explain clearly why her classmates were able to see the shadow of the puppet on the screen during the show. (1 mark)

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.

Julie prepared a shadow puppet show for her classmates as shown. She made puppets using cardboard. Her classmates are only able to see dark shadows on the screen.



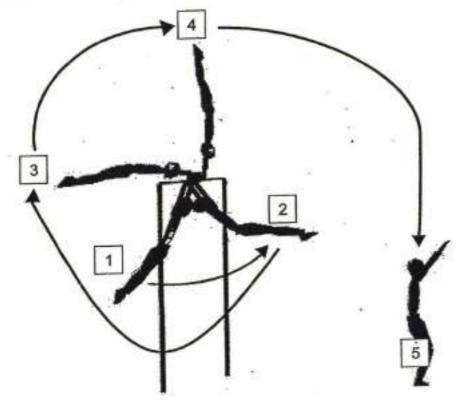
The diagram below shows a shadow cast by a puppet.



What can Julie do to make the shadow of the puppet appear bigger? (1 mark)

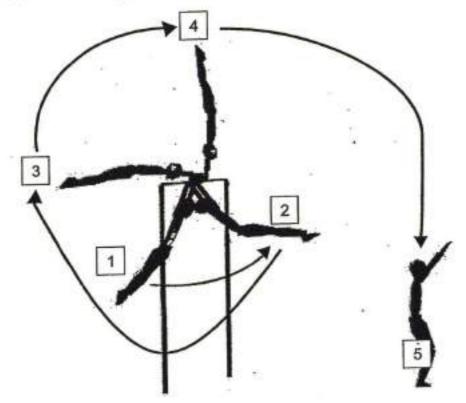
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

The diagram shows a gymnast swinging on a horizontal bar. Position 1 shows her starting point, where she swings forward to Position 2 before swinging backwards and over the bar. She releases her grip on the bar after Position 4 and lands at Position 5.



At which position does the gymnast possess the most gravitational potential energy?

The diagram shows a gymnast swinging on a horizontal bar. Position 1 shows her starting point, where she swings forward to Position 2 before swinging backwards and over the bar. She releases her grip on the bar after Position 4 and lands at Position 5.



Describe the energy conversion of the gymnast from Position 3 to Position 5. (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.