

PSLE SCIENCE
Test 1
Booklet A

Starting Time: _____
Ending Time: _____

Date: _____
Marks: _____

Answer the following questions

1) The melting point of A is 80 degree Celsius. The boiling point of A is 300 degree Celsius.

“Will A be a solid, liquid or gas at 100 degree Celsius?” Prata Uncle asked.

(1) Melting point means A is a liquid at 80 degree Celsius. Boiling point means A is a gas at 300 degree Celsius. 100 degree Celsius is nearer to 80, so A will be a liquid at 100 degree Celsius.

(2) Melting point means A is a liquid at 80 degree Celsius. Boiling point means A is a gas at 300 degree Celsius. 100 degree Celsius is nearer to 80, so A will be a solid at 100 degree Celsius.

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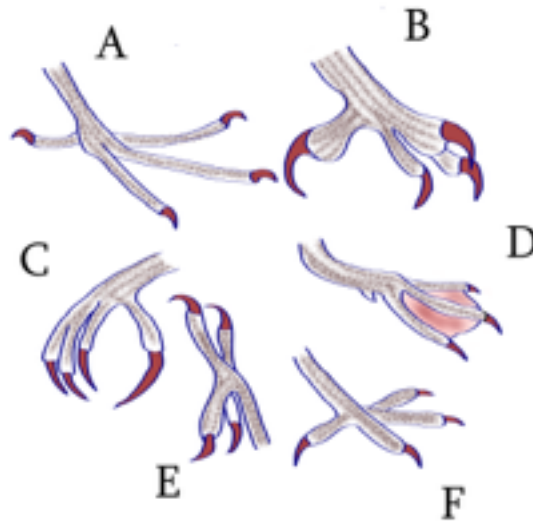
2) Li MinHo then asked you, “How about 200 degree Celsius?”

(1) As 200 degree Celsius is between 80(liquid) and 300(gas), A is probably a gas at 200 degree Celsius.

(2) As 200 degree Celsius is between 80(liquid) and 300(gas), A is probably a liquid at 200 degree Celsius.

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Ms Kueh Lapis checked up on birds over the internet:



3) Which set of feet belongs to an eagle that hunts rats and snakes?

(1) B, it is strong, muscular and equipped with sharp, deadly claws.

(2) C, it can grip well and is equipped with sharp claws

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4) Which set of feet belongs to the parrot that perches on tree branches and the duck that swims in rivers?

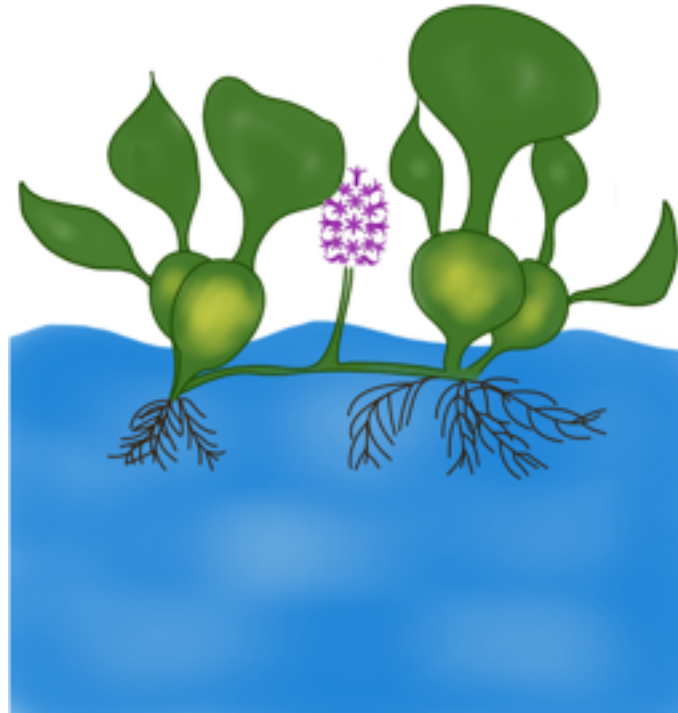
(1) A, used for perching and D, webbed feet used for swimming

(2) C, used for perching and D, webbed feet used for swimming

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Babarelala saw some water hyacinth plants at a pond in Tiong Bahru.

Water Hyacinth



5) Why are the stalks of the water hyacinth plant swollen?

- (1) It is an adaptation that enables it to float to get sufficient sunlight for photosynthesis.
- (2) It is an adaptation that enables it to float to get sufficient water for photosynthesis.

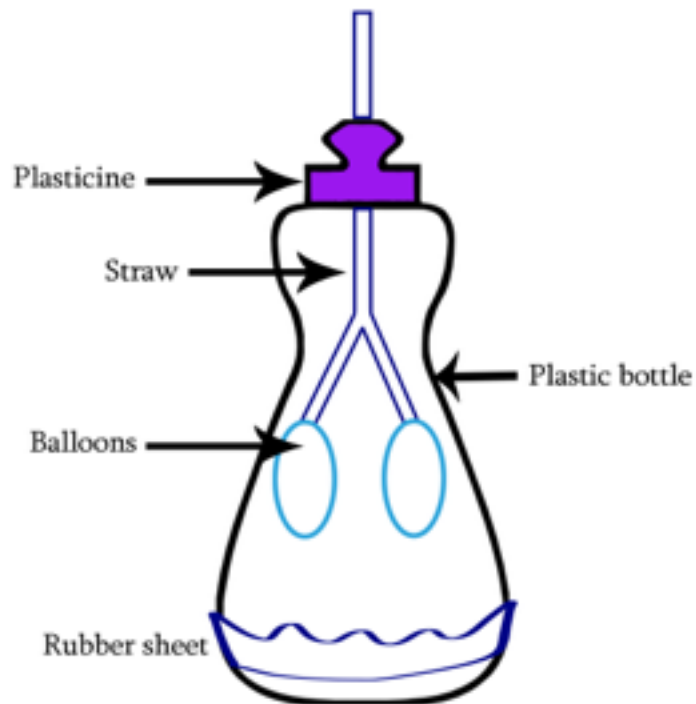
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6) What is inside the swollen stalks?

- (1) Chloroplasts
- (2) Air

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Durian Boy made a model of the respiratory system as shown below:



7) Which part of the respiratory system do the straws represent?

- (1) Windpipe
- (2) Lungs

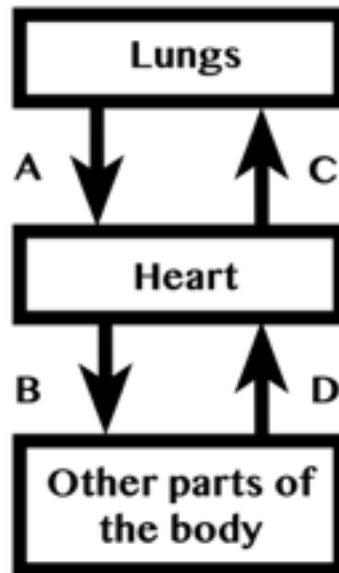
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8) What is the function of the part mentioned in (a)?

- (1) It allows air to travel from the nose to the windpipe
- (2) It allows for gaseous exchange

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Mr Ooo La La drew the following diagram:



9) Which parts carries oxygenated blood?

- (1) A, B
- (2) C, D

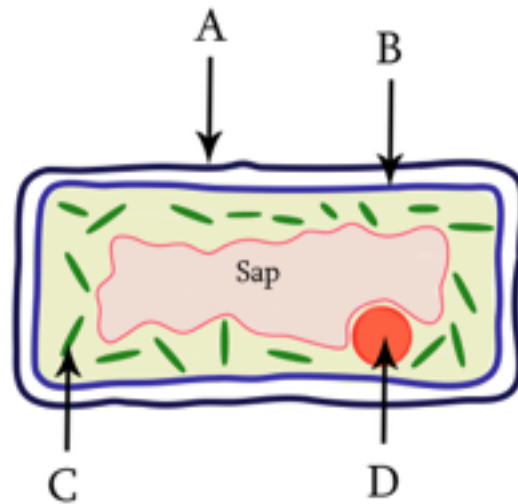
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10) Oxygenated blood moves from the heart to the lungs. True or false?

- (1) True
- (2) False

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Mee Siam Aunty drew a plant cell.



11) What are parts A, B and C called?

- (1) A-cell wall, B-cell membrane, C-chloroplasts
- (2) A-cell membrane, B-cell wall, C-chloroplasts

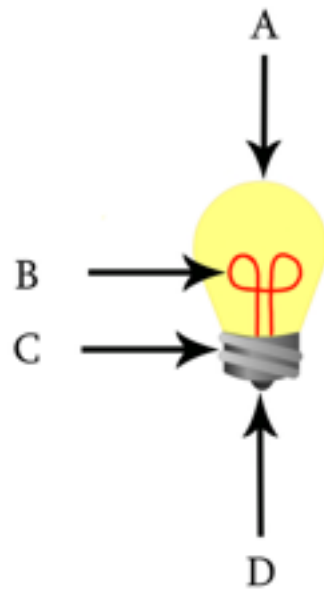
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12) What are the functions of A and C?

- (1) A- allows certain substances to move in and out of cell, C-contains chlorophyll to make food
- (2) A- gives the cell a regular shape, C-contains chlorophyll to make food

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Kopi-O Girl bought a lightbulb from Jurong East.



13) A-glass bulb, B-copper filament, D-metal casing. Which part(s) are labelled wrongly?

- (1) B
- (2) B and D

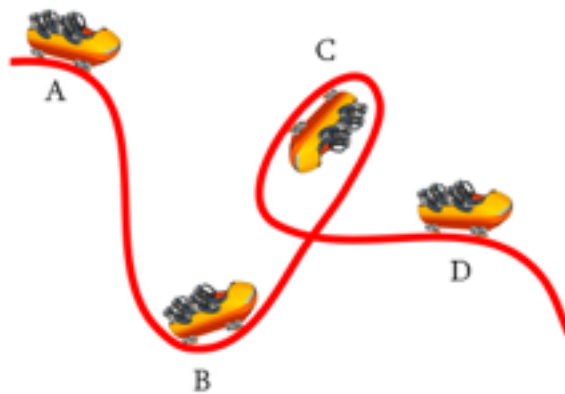
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14) Which type of circuit will increase the brightness of the bulb?

- (1) Series circuit
- (2) Parallel circuit

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Ms MBS, Ms Kaya Toast and Ms Tutu Kueh went to take a roller coaster ride at Universal Studios Singapore. Ms MBS puked after that.



15) Which point has the lowest amount of kinetic energy?

(1) A

(2) C

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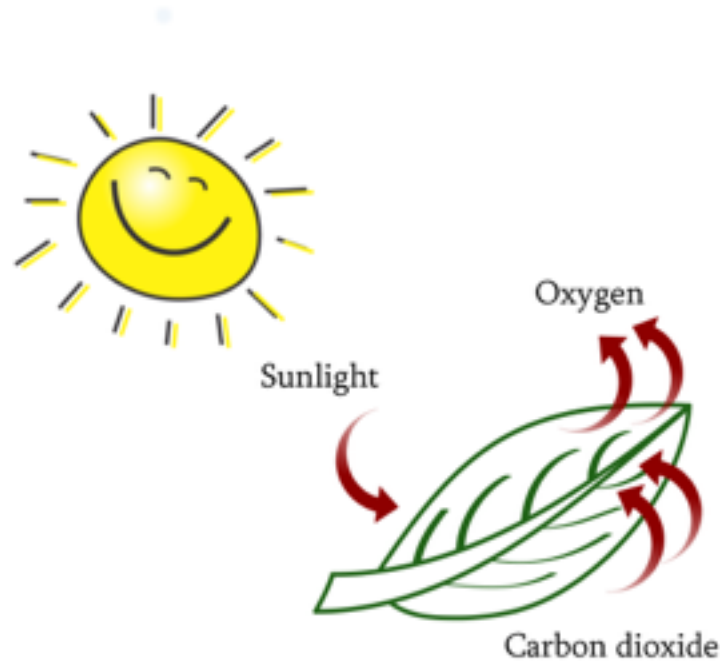
16) Explain your answer in Q(15)

(1) A is at the highest point, so it will have the lowest amount of kinetic energy

(2) A is at the starting point, so it has the lowest amount of kinetic energy

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Captain Singapura observed a plant in Ang Mo Kio-Bishan Park from 5am to 8pm:



17) When will the plant produce the highest amount of oxygen? Why?

(1) Noon time, as the Sun will be directly above the plant, giving it the highest amount of sunlight for photosynthesis

(2) 7am, where the air is the freshest with the highest amount of oxygen

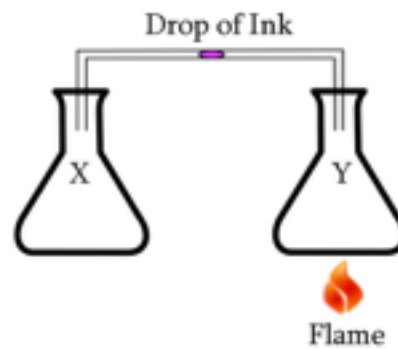
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18) When will the amount of carbon dioxide be the lowest? Why?

(1) 7pm, as the Sun is setting, so there is less photosynthesis.

(2) 4pm. The plant is experiencing the highest rate of photosynthesis, using up the highest amount of carbon dioxide in the process.

Teacher Ai Yo Yo sets up the following:



19) Where will the drop of ink move after 20 minutes?

- (1) Towards X
- (2) Towards Y

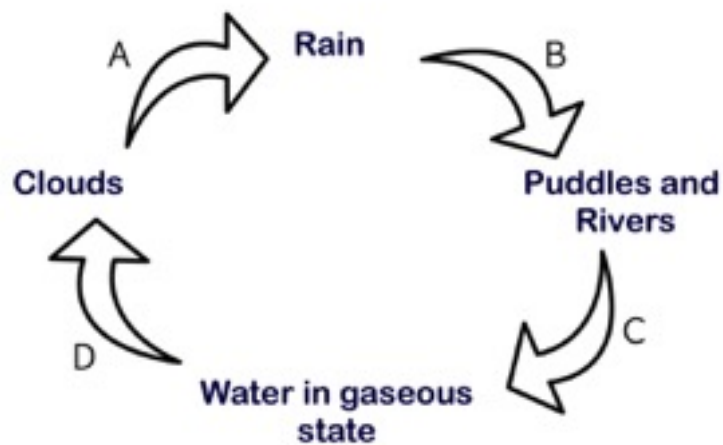
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20) Explain your answer in Q(19)

- (1) The heat from the flame will travel to Flask Y, heating up the air in Flask Y. The hot air will push the drop of ink towards X.
- (2) The heat from the hot water will travel to Flask Y. The hot air will push the drop of ink to the right, towards X.

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Chilli Crab Girl drew a diagram of the Water Cycle:



21) Which option correctly represents the different states in the Water Cycle?

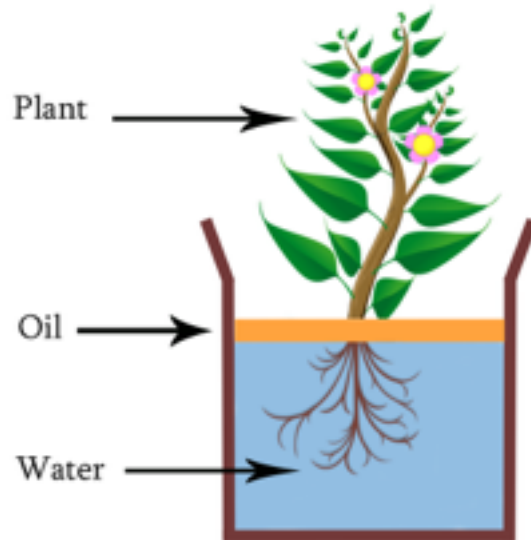
- (1) Clouds- gaseous state
- (2) Clouds- liquid state

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22) Yoonana says, “The water cycle takes place in the daytime.” True or False?

- (1) True
- (2) False

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23) The set-up was put next to a window for 3 days. Nasi Briyani Uncle noticed that the water level dropped and said, “The water evaporated”. Ah Girl says, “No, the water is taken in by the plant”. Who is correct?

- (1) Nasi Briyani Uncle
- (2) Ah Girl

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24) Ms Nonya Kueh decided to remove the roots. All the other conditions remained the same. Will the water level drop after 5 days? Why?

- (1) No, the water level remains the same. The water is not evaporated off due to the layer of oil and there are no roots to absorb the water
- (2) Yes, the stem will transport the water to all parts of the plant, even though the roots are not there to absorb the water. The layer of oil is still present to prevent water loss.

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Joshifer was in Malaysia and saw the following:



Balsam

25) How is the balsam plant dispersed?

- (1) Exploding
- (2) Explosive action

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PSLE SCIENCE

Test 1
Booklet B

Starting Time: _____
Ending Time: _____

Date: _____
Marks: _____

Answer the following questions(2m each)

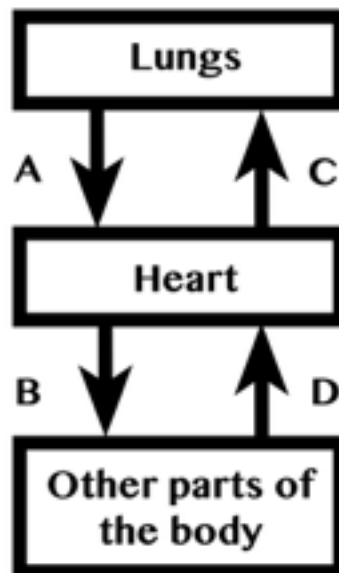
1. Taylor Swiftt was walking in Gardens by The Bay when she saw Cactus Kawaii and her fellow friends.



a) Why does the cactus have needle-like leaves?

b) Lady Sambal Blachan says that the green fleshy stem of the cactus stores water. What is one other function of the fleshy stem?

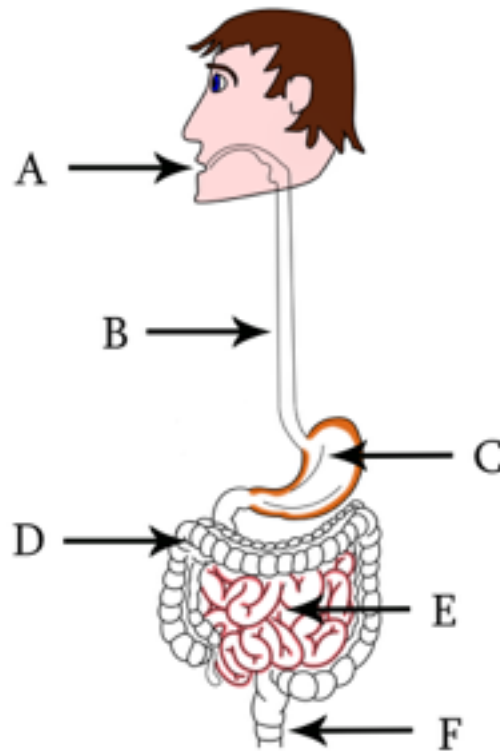
2. Babarelala drew the following:



a) Which direction carries blood rich in carbon dioxide?

b) Why does the heart rate increase when Taeminn jogs?

3. NOC Sylvia saw a diagram of the Digestive system:



a) What are parts A, B, C, D, E and F?

A: _____

B: _____

C: _____

D: _____

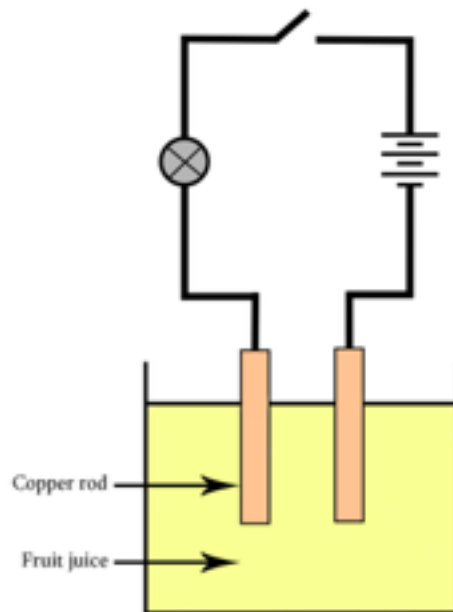
E: _____

F: _____

b) What happens at E?

c) What happens at D?

5. Hokkien Mee Boy sets up the following experiment. When he closes the switch, the bulb lights up.



(a) What can Hokkien Mee Boy conclude about the copper rods and citrus fruit juice?

(b) If he changed the citrus juice to water, will the bulb light up? Why?

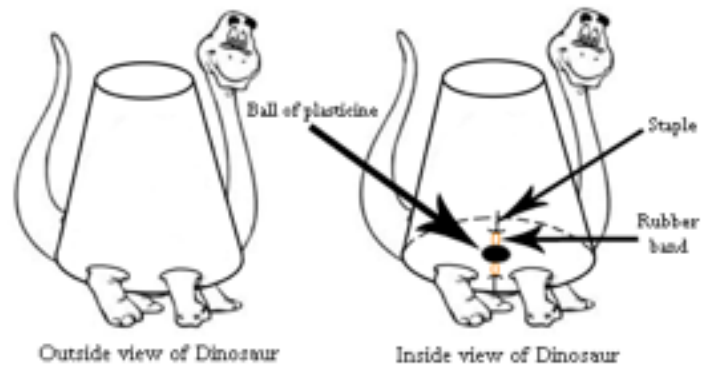
6.

(a) Draw the path of light to show how Ms Ice Kacang can see the iPad on the table:



(b) What property of Light does this show?

7. Chilli Crab Girl bought a dinosaur toy from Jurassica World toy shop.



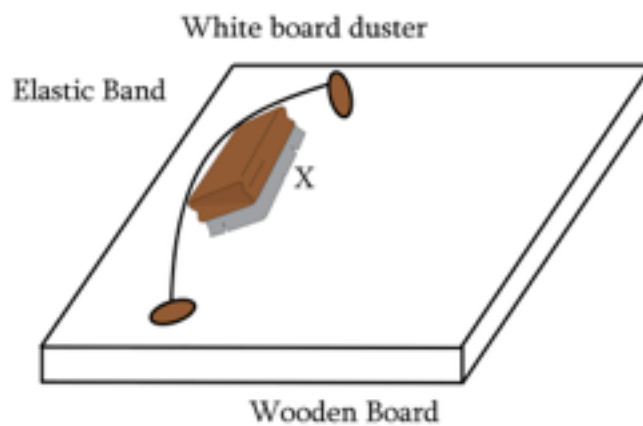
(a) She rolls the toy backwards and releases it. It stops after a while. Why?

(b) State the energy conversion that took place.

(c) What is the relationship between the number of turns and the distance travelled by the toy?

(d) Is there any change if the dinosaur legs are longer? Why?

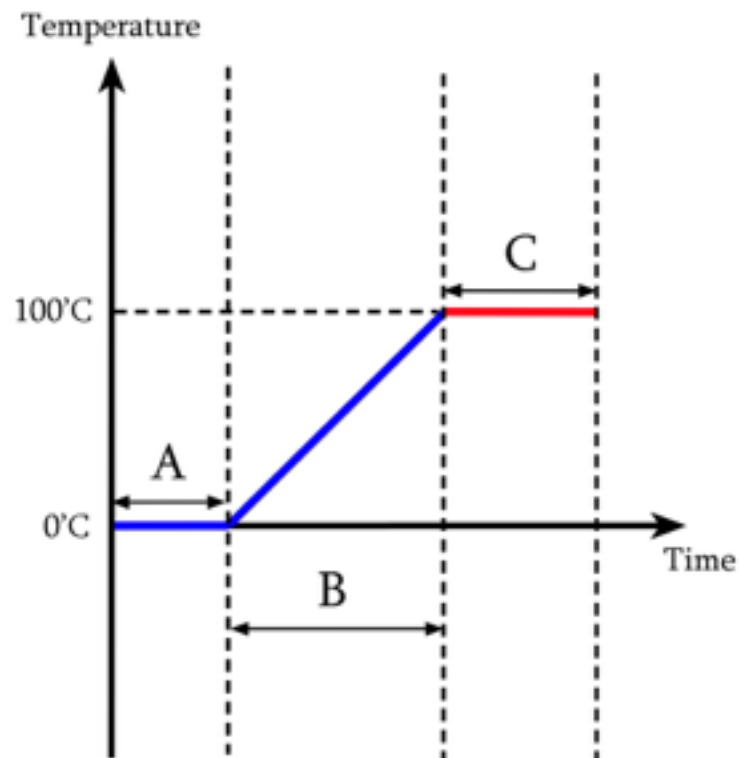
8. Ms Kaya Toast set up the following and conducted an experiment to determine which substance is the best lubricant. The same amount of lubricant was applied on the surface of the wooden board at Spot X.



(a) Ms Kaya Toast attempted 3 tries with each lubricant and calculated the average distance the white board duster travelled. She found that the average for Lubricant A was 30cm, Lubricant B was 50cm, Lubricant C was 10cm and Lubricant D was 35cm. From the results, which Lubricant should Ms Kaya Toast use if she wants to ensure others do not slip and fall easily?

(b) Which lubricant should she use to reduce the most amount of friction between two surfaces?

9. Ms Tutu Kueh made a graph.

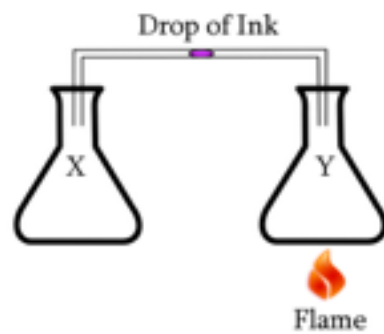


(a) What process is taking place at B?

(b) Explain your answer in (a)

(c) What will happen to the water after the flame is turned off?

10. Watermelon Boy sets up the following:

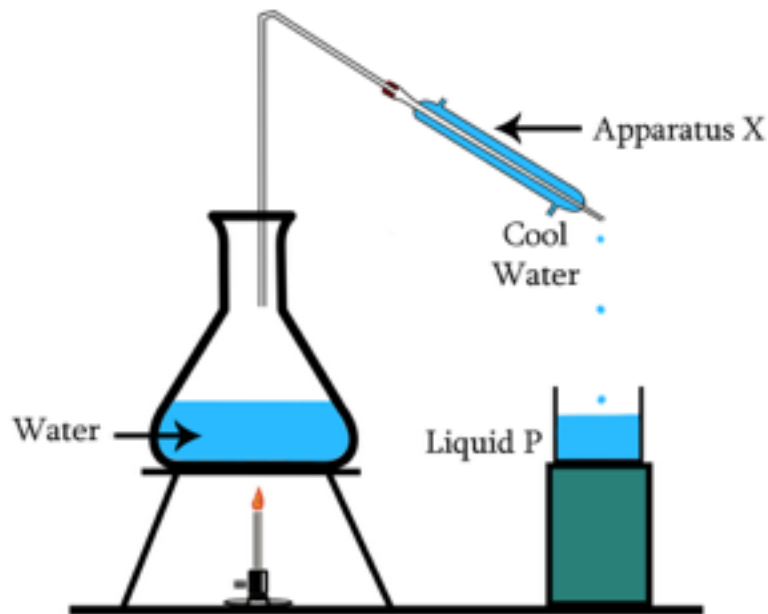


(a) He wants to make some changes. He removed the flame and immersed Flask X in cold water. Where will the ink move after 30 minutes?

(b) After that, Watermelon Boy removed the cold water and immersed Flask X in hot water. Where will the drop of ink move after 30 minutes?

(c) Explain your answer in (b)

11. Name the processes taking place at:



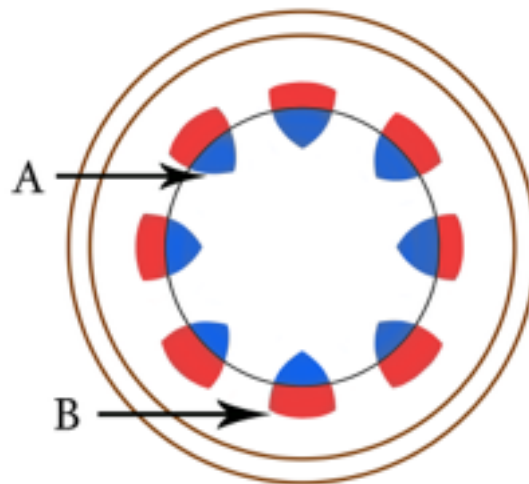
(a) Conical Flask on the left - _____

(b) Apparatus X on the right - _____

(c) What is the relationship between the size of the flame and the amount of Liquid P?

(d) How does Mrs Durian ensure that her results are accurate?

12. Prata Uncle drew the diagram below:



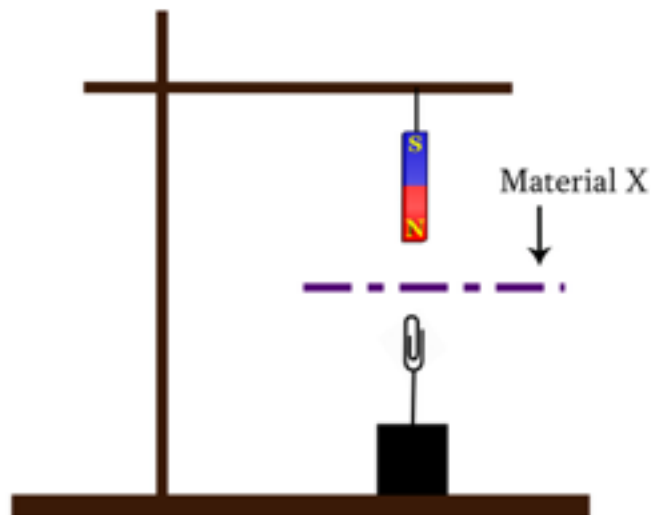
(a) Label the parts below:

A - _____

B - _____

(b) What is the function of A?

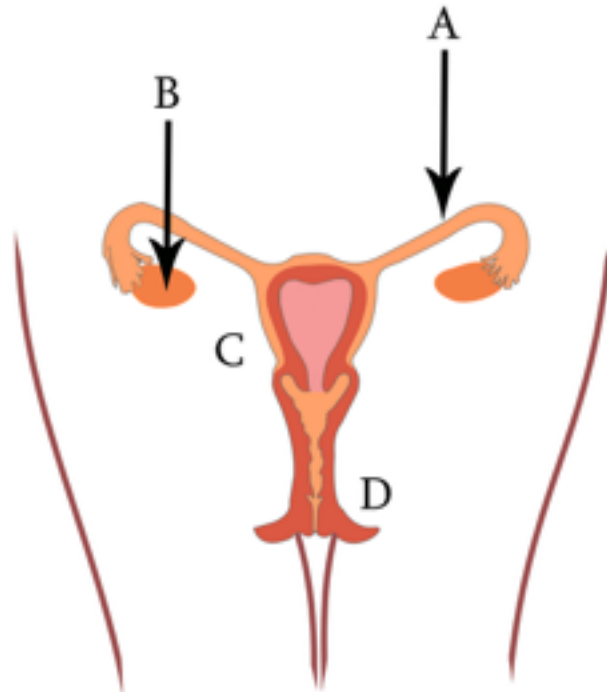
13. Kopi-O Girl set up the following. Material X is placed between the magnet and paper clip as shown. The paper clip is seen “floating” up.



(a) What can Material X be?

(b) Explain your answer in (a)

14.



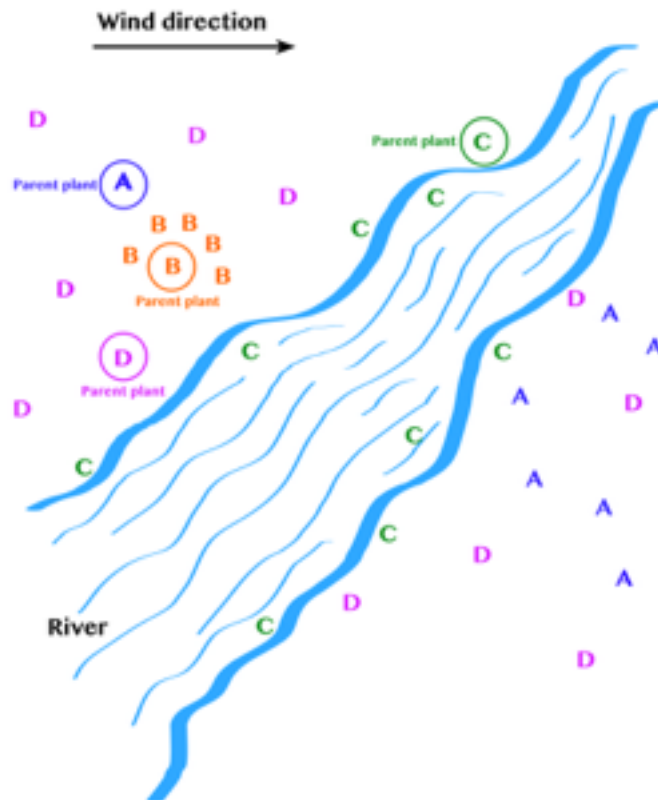
(a) Label the parts of the female reproductive system

B - _____

C - _____

(b) What is the function of B and C?

15. Babarelala observed four plants in Sembawang Park and noticed the following after 2 weeks.



(a) How is A dispersed?

(b) Explain your answer in (a).

(turn over to the next page)

(c) How is C dispersed?

(d) D is dispersed by birds. Why?

PSLE SCIENCE

Test 1

Booklet A

- | | | |
|--------|---------|---------|
| 1. (2) | 10. (2) | 19. (1) |
| 2. (2) | 11. (1) | 20. (1) |
| 3. (2) | 12. (2) | 21. (2) |
| 4. (2) | 13. (2) | 22. (2) |
| 5. (1) | 14. (1) | 23. (2) |
| 6. (2) | 15. (1) | 24. (2) |
| 7. (1) | 16. (1) | 25. (2) |
| 8. (1) | 17. (1) | |
| 9. (1) | 18. (1) | |

Booklet B

1.

(a) Smaller leaves means less water loss. It needs to store up water as the desert is dry and does not rain for weeks or months sometimes.

(b) The green fleshy stem contains chloroplasts to make food for the plant
2.

(a) C, D

(b) The heart needs to pump more blood so as to transport more digested food and oxygen to all parts of the body during exercise
3.

(a) A-mouth, B-gullet, C-stomach, D-large intestine, E-small intestine, F-anus

(b) Absorption of digested food

(c) Absorption of water
4.

(a)

(b) It contains chlorophyll to make food for the plant

(c) Both have cytoplasm and nucleus

(d) The plant cell has a cell wall and chloroplasts but the animal cell does not
5.

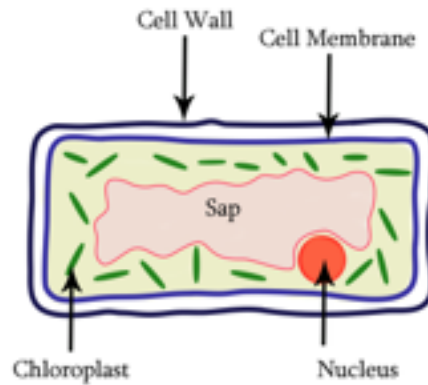
(a) The copper rods and citrus fruit juice are conductors of electricity.

(b) Yes, water is a conductor of electricity
6.

(a) Light rays travel from lamp to book first, then book to eye

(b) Light travels in straight lines

7.



- (a) The kinetic energy was used up.
- (b) Elastic potential energy \rightarrow kinetic energy \rightarrow heat energy and sound energy
- (c) As the number of turns increase, the greater the distance travelled by the toy
- (d) No, it is the rubber band that affects the distance travelled

8.

- (a) C
- (b) B

9.

- (a) Boiling
- (b) The temperature is rising slowly from 0 degree Celsius to 100 degree Celsius. It reached the boiling point at 100 degree Celsius
- (c) The water will cool down to room temperature

10.

- (a) Towards X
- (b) Towards Y
- (c) The heat was transferred from the flame to Flask X, this heated up the air in Flask X, as the hot air rises and expands, it pushes the drop of ink towards Y

11.

- (a) Evaporation
- (a) Condensation

- (c) As the size of the flame increases, the amount of Liquid P increases
- (d) Repeat the experiment 3 more times

12.

- (a) A - xylem, B - phloem
- (b) It transports food

13.

- (a) Plastic, paper, ceramic (name any non-magnetic material)
- (b) Magnetism passed through Material X to attract the paper clip

14.

- (a) B- ovary, C-womb
- (b) The ovary produces eggs and the womb carries the baby to full term.

15.

- (a) By wind
- (b) It follows the direction of the wind and scatters the seeds to the right of the picture
- (c) By water, as the seeds are found near water.
- (d) By animals like birds, as the seeds are scattered in all directions