

Pei Chun Public School
Semestral Assessment 1 – 2013
Science
Primary 3

Name : _____ () Date : 17 May 2013

Class : Pri. 3 ()

Science Teacher : _____

Time : 50 min

Section A (15 × 2 marks)

For questions 1 to 15, choose the most suitable answer and shade its number (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Study the following diagrams.



A



B



C



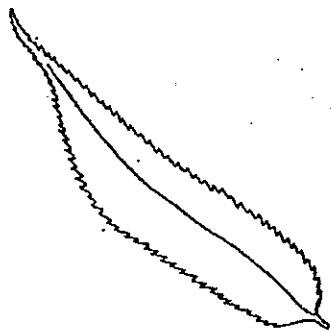
D

Which of the following need air, food and water to stay alive?

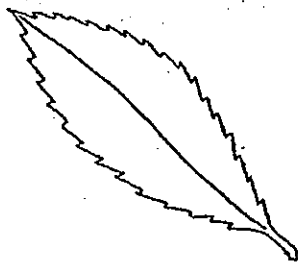
- (1) A and D only
- (2) B and C only
- (3) B and D only
- (4) C and D only

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2. The following leaves, A, B and C, were grouped together according to a common characteristic.



Leaf A

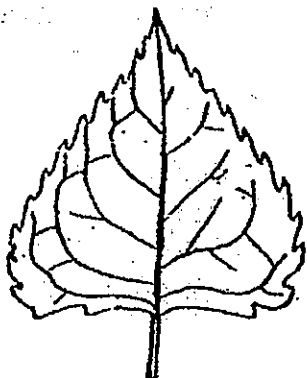


Leaf B

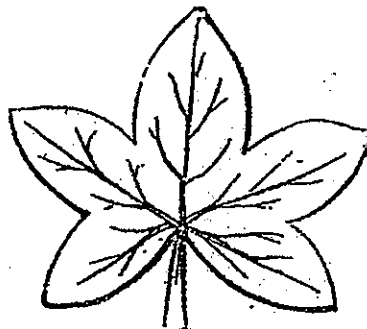


Leaf C

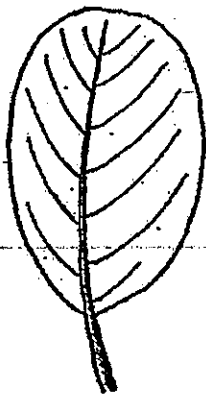
Which of the following leaves could be grouped with leaves A, B and C?



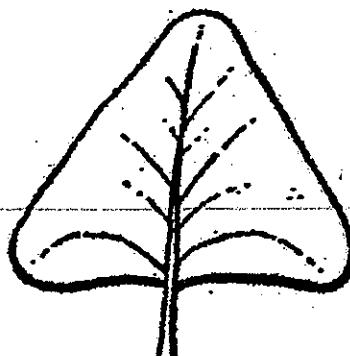
(1)



(2)



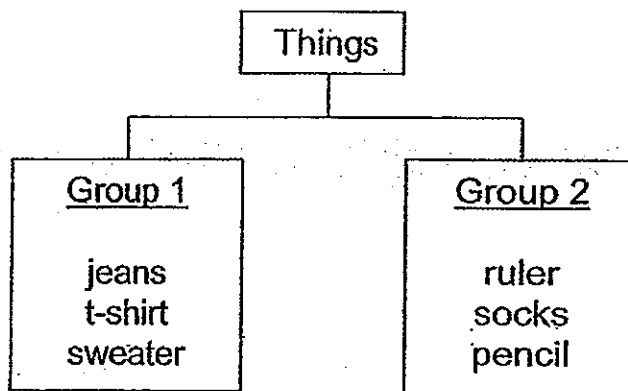
(3)



(4)

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3. The things below are classified according to their similarities.

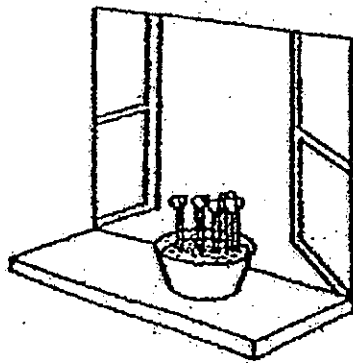


Which of the things is classified wrongly?

- (1) ruler
- (2) socks
- (3) jeans
- (4) sweater

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Ethel placed a pot of seedlings next to an open window and left it there for a week as shown below.



One week later, she noticed that the seedlings had died. Which of the following is the most likely reason?

- (1) The seedlings were not given water.
- (2) The seedlings were not given warmth.
- (3) The seedlings did not receive sunlight.
- (4) The seedlings did not receive enough air.

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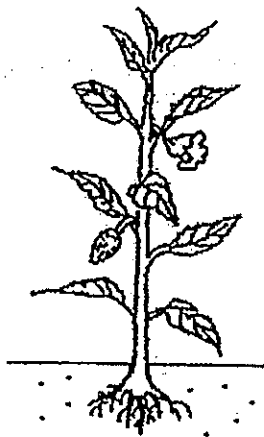
5. Which of the following statements about living things is/are true?

- A. All living things die.
- B. All living things reproduce by giving birth.
- C. All living things can make their own food.
- D. All living things respond to changes around them.

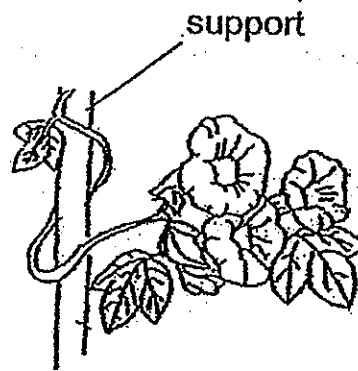
- (1) A only
- (2) B and C only
- (3) A and D only
- (4) A, B and D only

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6. The diagram below shows two plants, P and Q.



Plant P



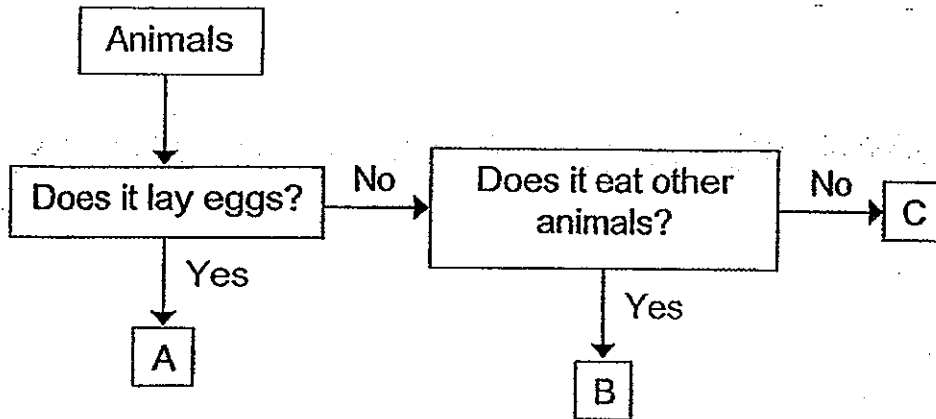
Plant Q

Based on the observations of plants P and Q, which of the following statements is true?

- (1) Plant P grows faster than Plant Q.
- (2) Plant P has a stronger stem than Plant Q.
- (3) Plant Q needs more sunlight than Plant P.
- (4) Plant Q is a flowering plant, but Plant P is not.

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7. Study the flowchart carefully.

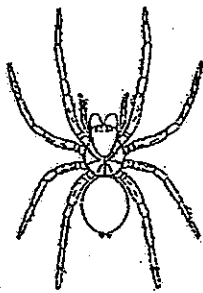


Which of the following can be animals A, B and C?

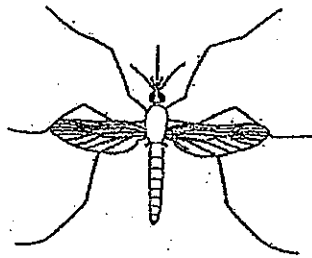
	A	B	C
(1)	guppy	duck	giraffe
(2)	frog	lion	deer
(3)	hen	cow	eagle
(4)	fern plant	leopard	crocodile

8. John classified four organisms in the same group as shown below. Based on the diagrams, which of the organisms did he place in the group wrongly?

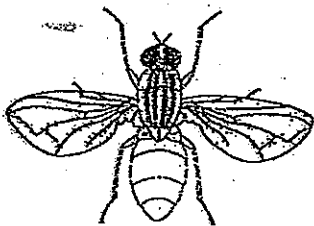
(1)



(2)



(3)

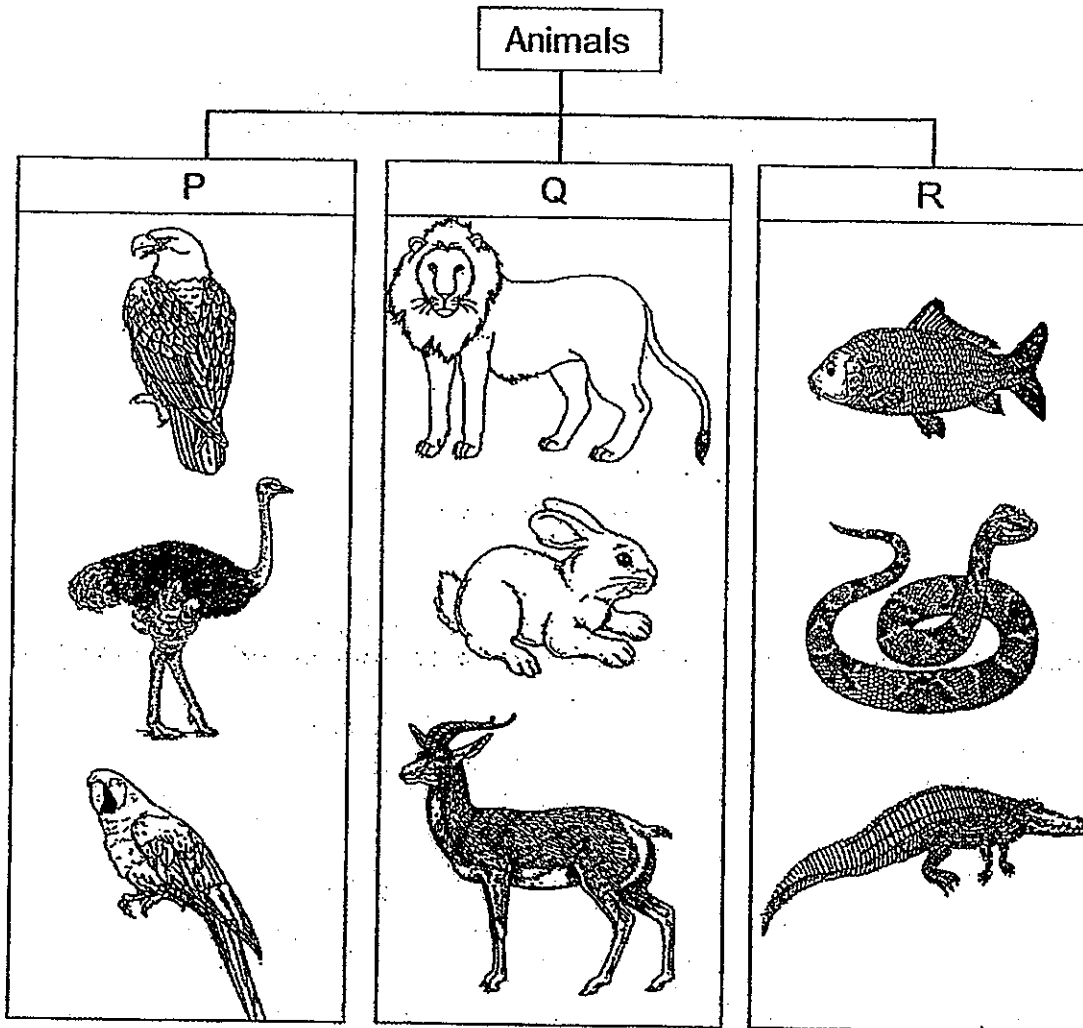


(4)



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9. The classification diagram below shows animals classified under three different groups P, Q, and R.



Which of the following groups best represents the above classification?

	P	Q	R
(1)	can fly	can walk	can swim
(2)	lay eggs	give birth	give birth
(3)	eat animals	eat plants	eat animals
(4)	have feathers	have hair	have scales

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10. Four pupils made some statements about bacteria below.

Adelyn: Bacteria can have different shapes.

Bianca: Bacteria can be harmful or useful.

Cassie: Bacteria can make their own food.

Darren: Bacteria can only be seen under a microscope.

Which of the following pupils made a **wrong** statement?

(1) Adelyn

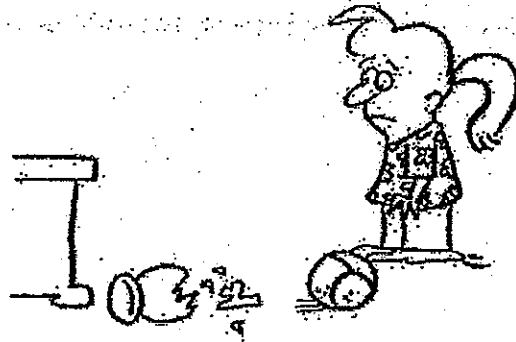
(2) Bianca

(3) Cassie

(4) Darren

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11. Alice was playing with a ball inside a house. The diagram below shows what had happened when the ball hit a vase.



Which of the following materials is the vase most likely to be made of?

(1) wood

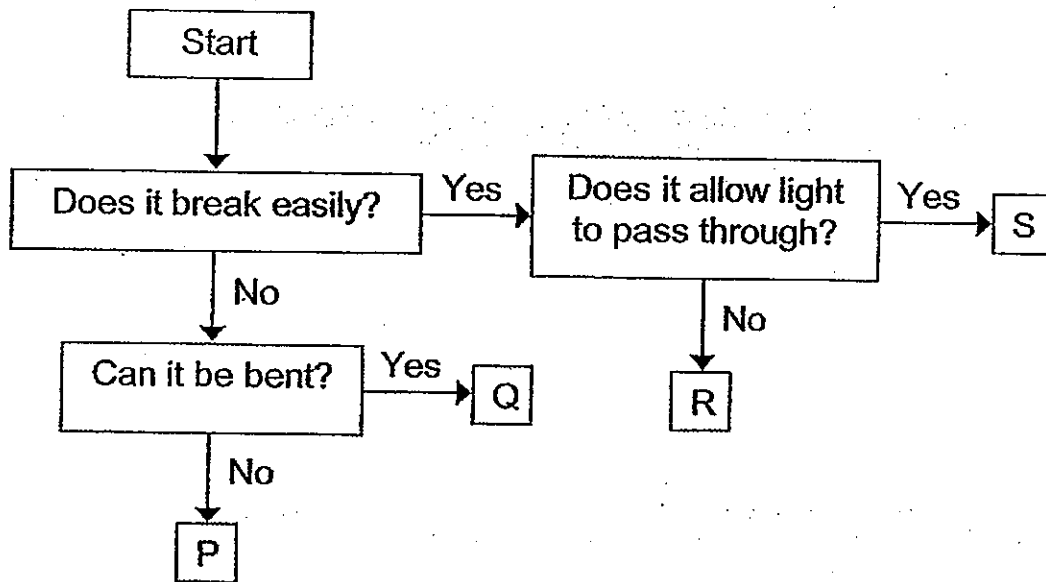
(2) metal

(3) glass

(4) plastic

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12. Study the flowchart carefully.



Which of the following best represents P, Q, R and S?

	P	Q	R	S
(1)	hammer	paper clip	flower pot	fish tank
(2)	fish tank	hammer	paper clip	flower pot
(3)	flower pot	fish tank	hammer	paper clip
(4)	paper clip	flower pot	fish tank	hammer

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13. Geraldine conducted an experiment to find out the most suitable conditions best for storing bread. She placed four slices of bread A, B, C and D in different conditions. After one week, she recorded her observations in the table below.

Bread	Conditions				Observations
	Warm	Cool	Moist	Dry	
A		✓		✓	no mould
B	✓		✓		a lot of mould
C		✓	✓		some mould
D	✓			✓	little mould

Based on the information provided, which of the following pairs of conditions is most suitable for storing a loaf of bread?

- (1) cool and dry
- (2) warm and dry
- (3) cool and moist
- (4) warm and moist

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14. Jason has four bags, each made of a different material. Each bag is able to hold objects up to a certain weight. The information below shows how much weight each bag can hold without breaking.

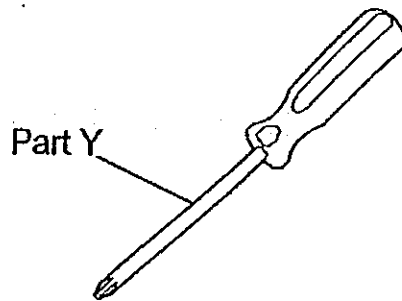
Bag	Amount of weight bag can hold without breaking (kg)			
	2	4	8	10
A	✓	✓		
B	✓	✓	✓	✓
C	✓			
D	✓	✓	✓	

Which bag should Jason use to carry an object weighing 9 kg?

- (1) A
- (2) B
- (3) C
- (4) D

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15. The diagram below shows a screwdriver.



Part Y of the screwdriver is usually made of metal. Which of the following reason(s) best explain(s) why metal is used for Part Y?

- A. Metal is hard.
- B. Metal is shiny.
- C. Metal is strong.
- D. Metal is flexible.

- (1) A only
- (2) A and C only
- (3) B and D only
- (4) A, B and C only

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End of Section A

Pei Chun Public School
Semestral Assessment 1 – 2013
Science
Primary 3

Name: _____ ()

Class: Pri. 3 ()

Date: 17 May 2013

Time: 50 min

Science Teacher: _____

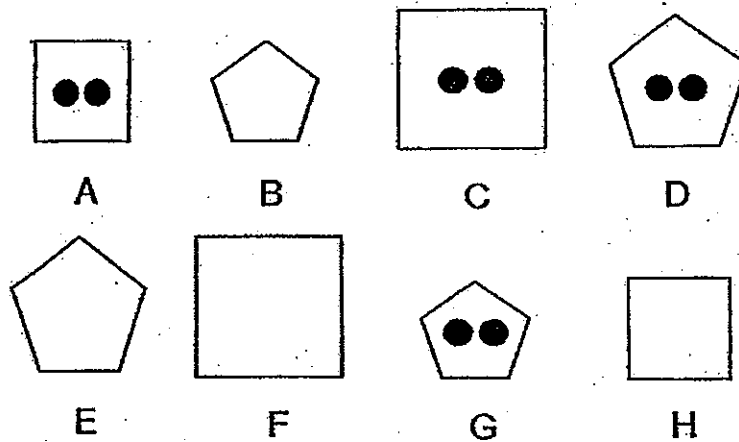
Parent's Signature: _____

Section A	30
Section B	20
Total	50

Section B (20 marks)

For questions 16 to 22, write your answers in the spaces provided.

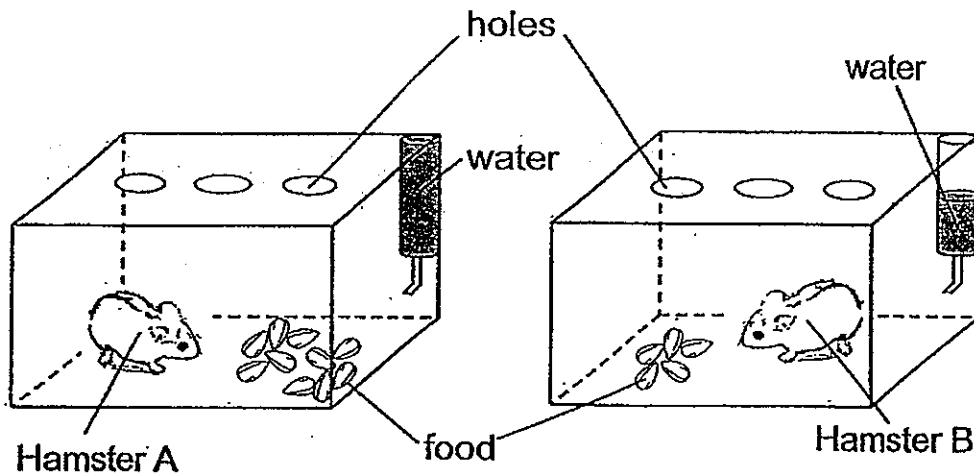
16. Study the diagram below carefully.



Classify the objects above into two equal groups. (2 m)

Group A	Group B

17. The set-ups below show two similar hamsters in separate containers.



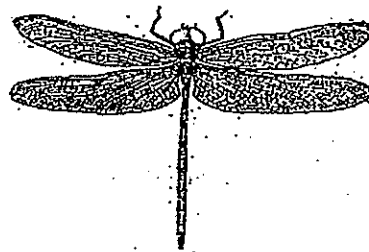
- (a) Based on the above set-ups, which hamster will live longer? (1 m)

- (b) Give two reasons for your answer in (a). (2 m)

18. The diagrams below show two organisms X and Y.



Organism X



Organism Y

Based on your observations of the organisms from the diagrams above, put a tick (✓) in the box(es) where the statement(s) is/are true. (3 m)

Statements	Tick
(a) Both organisms have wings.	<input type="checkbox"/>
(b) Both organisms reproduce by giving birth.	<input type="checkbox"/>
(c) Organism X has a beak, but organism Y does not.	<input type="checkbox"/>
(d) Organism X is covered with feathers, but organism Y is not.	<input type="checkbox"/>

19. Margaret and her friends were having a conversation about whales. Below is what they talked about.

Brandon : Just yesterday, I read in a book that whales have hairs and a tail. They also move like a fish in the water.

Margaret : I watched a television programme saying that whales can stay underwater for very long. They breathe through lungs and occasionally come up to the water surface for air.

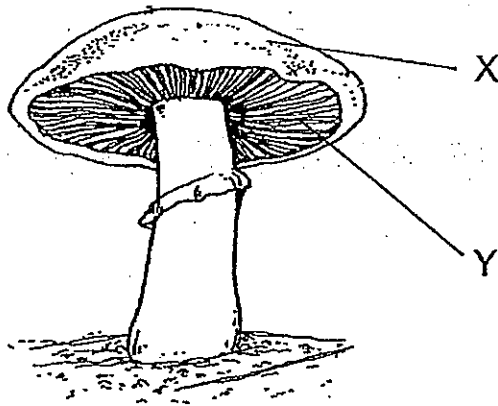
Sandrene : I read on the Internet that whales only give birth to one young every two to four years.

(a) Based on the conversation, what type of animals do whales belong to? (1 m)

(b) List down one characteristic found in the conversation that supports your answer in (a). (1 m)

(c) Suggest another animal that belongs to the same type of animals as a whale. (1 m)

20. The diagram below shows a mushroom.



(a) Identify parts X and Y.

(1 m)

X: _____

Y: _____

(b) Josiah wanted to classify mushroom in the same group as bird's nest fern because both are plants. His teacher told him that his reason was wrong.

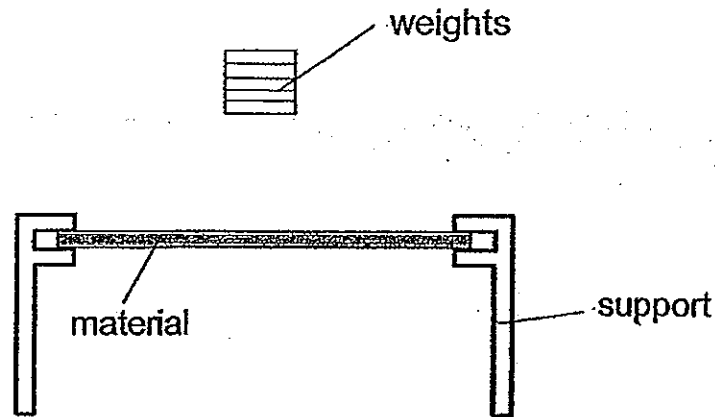
Give a reason why Josiah's teacher said his reason was wrong.

(1 m)

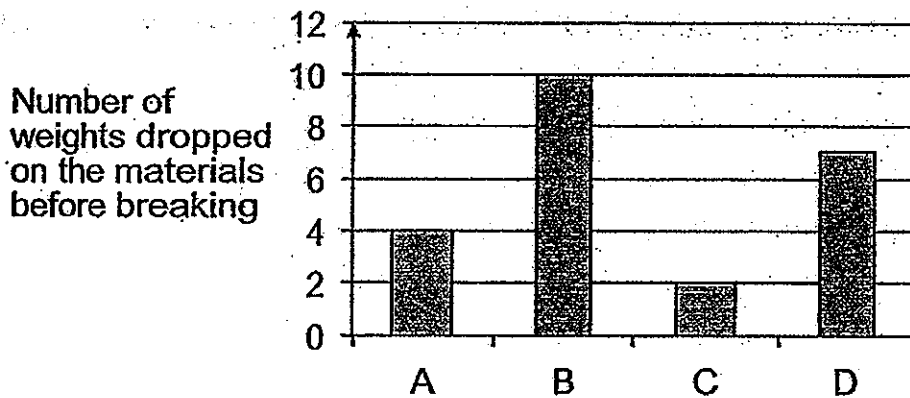
(c) Suggest one common characteristic between a mushroom and a bird's nest fern so that they can be grouped together.

(1 m)

21. An experiment was conducted to test the strength of four different materials A, B, C, and D. Weights were dropped from the same height onto each material.



The minimum number of weights required to break each material was recorded in the graph below.



- (a) Which one of the materials (A, B, C or D) is the weakest?

(1 m)

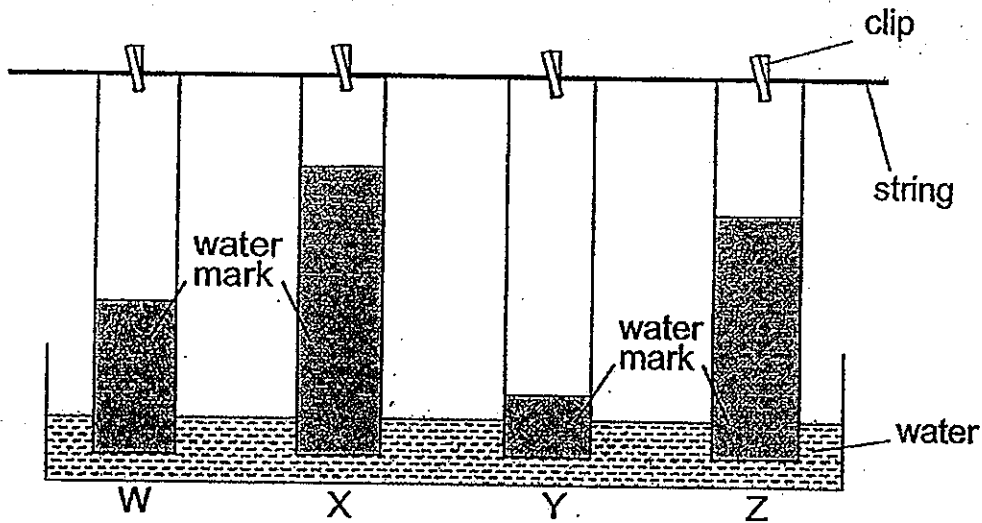
- (b) Which one of the materials (A, B, C or D) is the most suitable for making a door?

(1 m)

- (c) Give a reason for your answer in (b).

(1 m)

22. Ahmad conducted an experiment. He hung four different strips of materials in a large container of water. All the strips were of equal length. He then waited for one minute. The diagram below shows the water mark on each piece of material.



- (a) Based on the diagram above, arrange the materials (W, X, Y, and Z) from the most suitable to least suitable for making a mop. (1 m)

Most suitable \longrightarrow Least suitable

_____ , _____ , _____ , _____

- (b) Ahmad then repeated the experiment with another strip of the same length cut from a raincoat. Will there be any water mark observed on the strip cut from the raincoat? Give a reason your answer. (2 m)

End of Section B

Set by: Mr Benjamin Kua

Vetted by: P3 Science Committee

Exam Paper 2013 Answer Sheet

School: PEI CHUN PUBLIC SCHOOL

Subject: PRIMARY 3 SCIENCE

Term: SA1

1)	3	6)	2	11)	3
2)	1	7)	2	12)	1
3)	2	8)	1	13)	1
4)	1	9)	4	14)	2
5)	3	10)	3	15)	2

16. Group A – A, C, D, G

Group B – B, E, F, H

17. (a) Hamster A.

(b) Hamster A has more food and water than hamster B. Thus, hamster A will live longer.

18. Tick a, c and d.

19. (a) Mammal.

(b) It has hair.

(c) Bat.

20. (a) X: Cap

Y: Gills

(b) The bird nest fern makes food while mushrooms do not make food.

Thus, the mushroom is a fungi, not a plant.

(c) They reproduce by spores.

21. (a) C

(b) B

(c) Material B is the strongest material in the experiment.

22. (a) X, Z, W, Y

(b) There will not be any watermark. Plastic is waterproof.

