

**HOUGANG PRIMARY SCHOOL
FIRST SEMESTRAL ASSESSMENT, 2009
SCIENCE
PRIMARY 3**

Name: _____ ()

Class : Pr. 3 ()

Date : 14 / 05 / 09

BOOKLET A

There are 30 questions in this booklet. (60 marks)

Total time for Booklets A and B is 1h 45 min.

Follow all the instructions carefully:

- Use 2B pencils only.
- Select only one answer for each question.
- Shade the oval completely.
- Erase any answer you wish to change using an eraser.
- Do not make stray marks on the answer sheet.

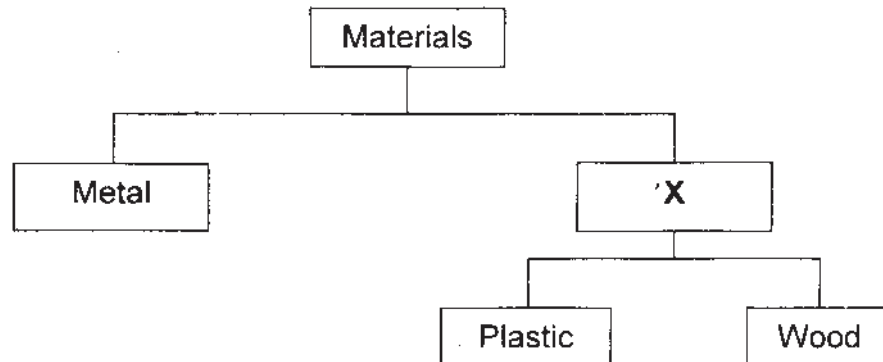
Answer all the questions.

DO NOT OPEN THESE BOOKLETS UNTIL YOU ARE TOLD TO DO SO.

BOOKLET A (30 X 2 MARKS)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1,2,3 or 4). Shade the correct oval (1,2,3 or 4) on the Optical Answer Sheet.

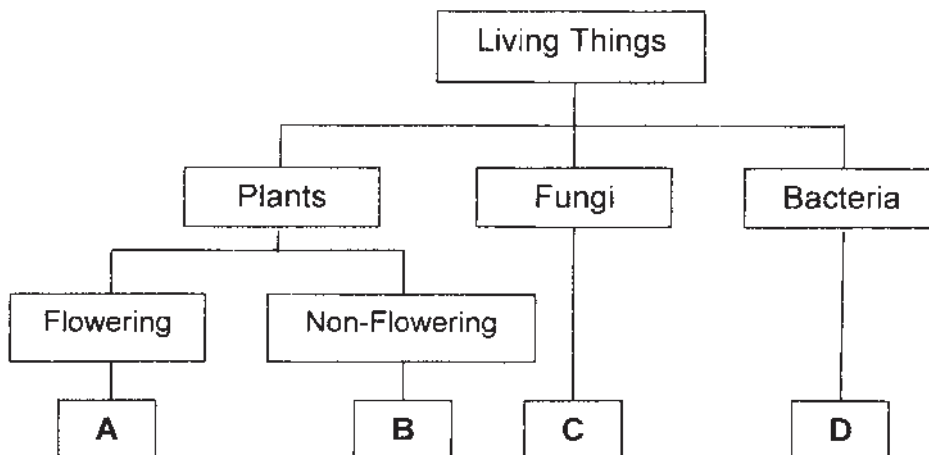
1. Study the diagram below.



What would be a suitable heading for X?

- 1) Thing
- 2) Waterproof
- 3) Non-metal
- 4) Non-living thing

2. In which group do ferns and mosses belong to?



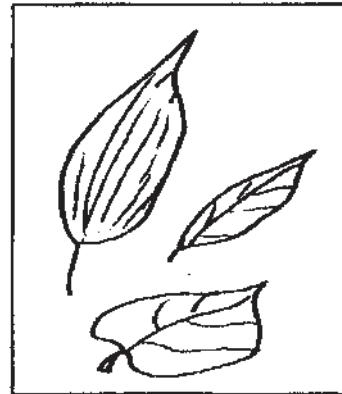
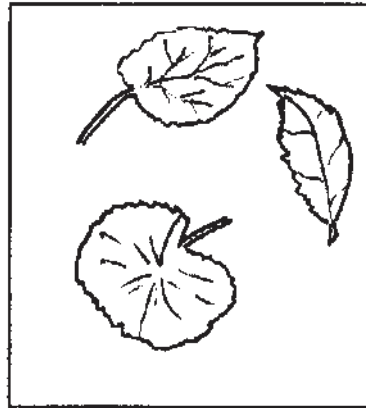
- 1) A
- 2) B
- 3) C
- 4) D

3. Ai Lin caught an earthworm in the garden. It moved away when exposed to light. This shows that living things _____.

- A: can die
- B: can respond to changes
- C: can move by themselves

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

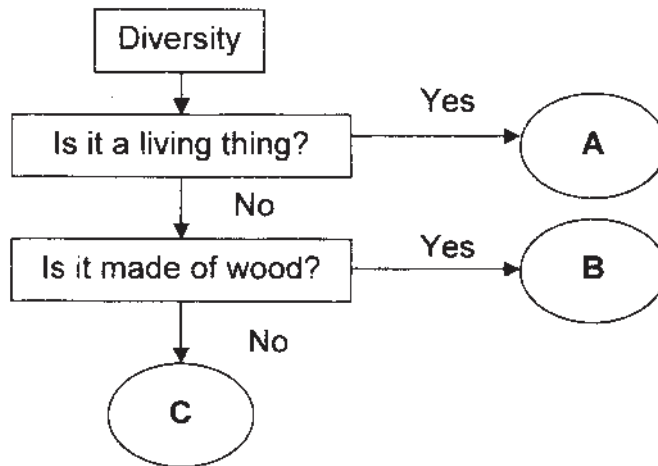
4. Study the diagrams below carefully.



The leaves shown above are grouped according to their _____.

- 1) edges
- 2) sizes
- 3) patterns
- 4) shapes

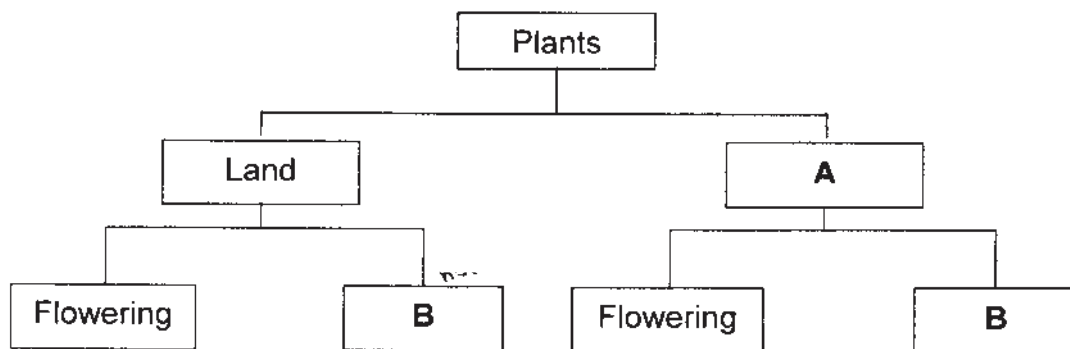
5. Study the flow chart below carefully.



Which of the following correctly represent A, B and C?

	A	B	C
1)	Roast duck	Cupboard	Water bottle
2)	Cactus	Bag	Cloud
3)	Chicken	Book	Shirt
4)	Bacteria	Paper bag	Cockroach

6. Study the classification chart below.



Identify A and B from the classification chart.

	A	B
1)	Land	Flowering
2)	Land	Non-Flowering
3)	Water	Flowering
4)	Water	Non-Flowering

7. Study the diagram below.

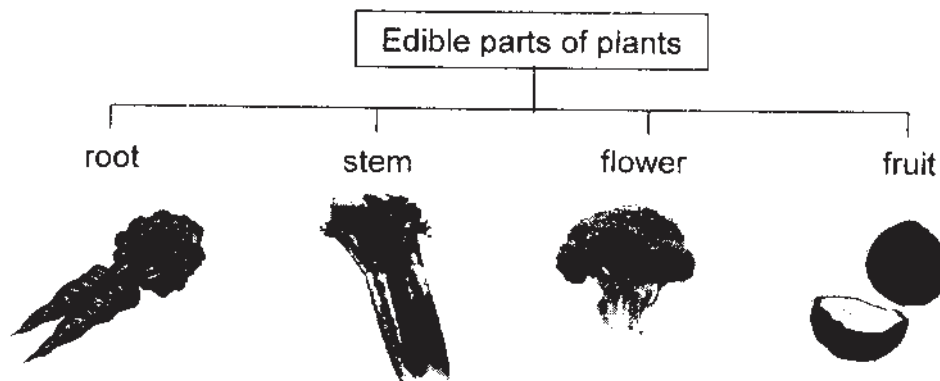


Janice put three grasshoppers and water in a jar. The jar was covered with tiny holes. After a few days, the grasshoppers died.

What could Janice have done so that the grasshoppers would stay alive?

- 1) Cover the jar completely.
- 2) Put some soil into the jar.
- 3) Place the jar in an open field.
- 4) Put some grass into the jar every day.

8. Study the classification diagram below.

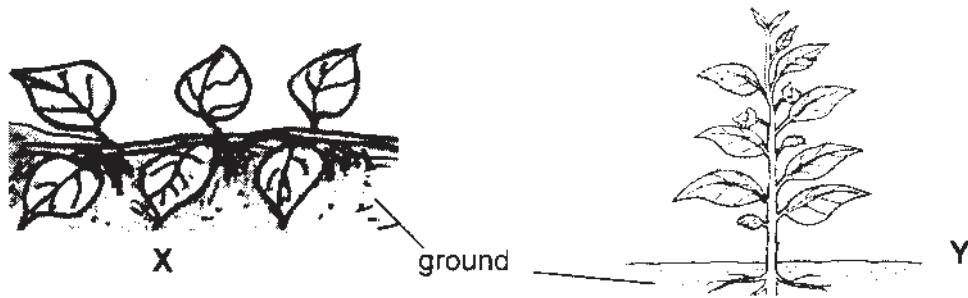


In which group will the plant part as shown in the diagram below be placed?



- 1) root
- 2) fruit
- 3) stem
- 4) flower

9. The diagram below shows two plants, X and Y, growing in the garden.

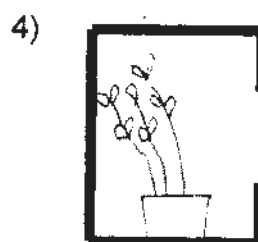
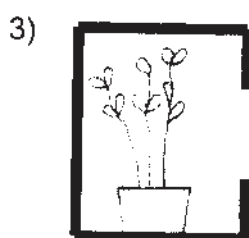
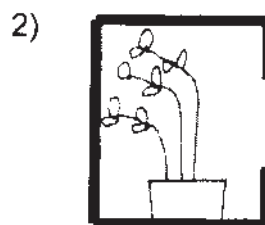
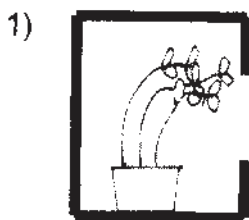


Based on the diagram, which of the following statements about Plant X and Y, is false?

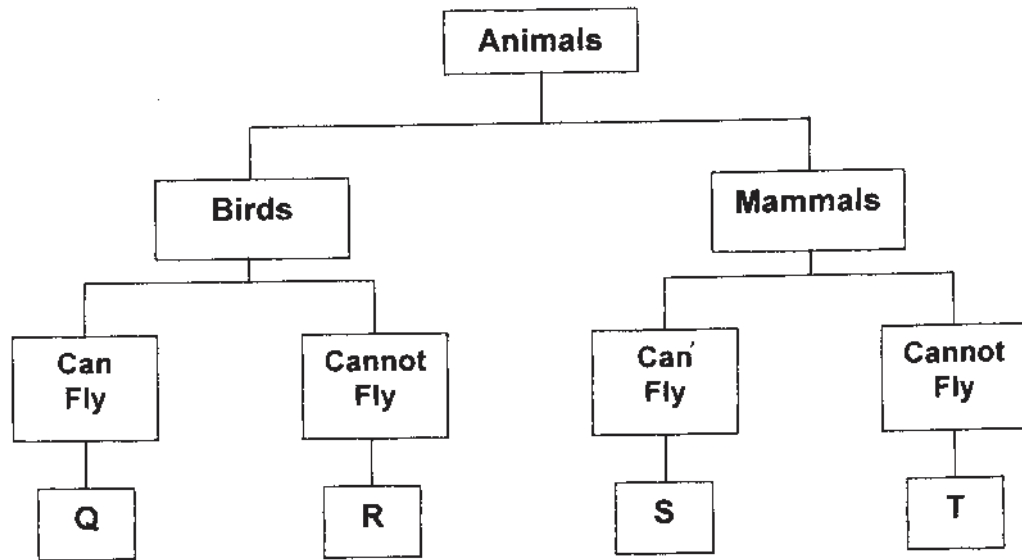
- 1) Both have roots.
 - 2) Both have stems.
 - 3) Both have leaves.
 - 4) Both need support to grow.
10. A group of pupils grew some bean plants in a pot of damp soil. They placed their plants in a black box as shown below. They were told plants respond to light by growing towards it.



Which of the following diagram correctly shows how their bean plants grow after a few days?



11. Study the classification diagram below.



Q, R, S and T represent different animals.

Which letter most likely represents the animal below ?



- 1) Q
- 2) R
- 3) S
- 4) T

12. Raju found an object that looked like an animal laying in the garden.

To find out whether it was a living or a non-living thing, he should _____.

- 1) check if it had legs
- 2) check if it had hair
- 3) check if it could respond to his touch
- 4) push it and see how far it could move

13. Linda found an animal and made the following observations.

- A: It has wings.
- B: It has six legs.
- C: It has a pair of antennae.
- D: It has three body parts.

Which of the observations above suggest that the animal is an insect?

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

14. Jenny is given the following description of Animal X and Animal Y.

Animal	Description
X	<ul style="list-style-type: none">• gives birth to young• has hair
Y	<ul style="list-style-type: none">• lays eggs• has scales

Which of the following **correctly** match Animal X and Animal Y?

	Animal	
	X	Y
1)	Fish	Bird
2)	Bird	Fish
3)	Mammal	Fish
4)	Fish	Mammal

15. Which pair of living things below has been correctly placed?

	Non-flowering plants	Fungi
1)	moss	fern
2)	mould	mushroom
3)	mould	fern
4)	moss	mushroom

16. Which of the following statements are true of fungi?

A : Fungi feed on plants.

B : Fungi can make their own food.

C : Fungi grow well in dry places only.

D : Fungi can be found in canned food that is left open for a month.

1) A and B only

2) B and C only

3) A and D only

4) B and D only

17. Which of the following are examples of micro-organisms?

A : Yeast

B : Mushroom

C : Bacteria

D : Mould

1) A only

2) A and B only

3) A and C only

4) A, C and D only

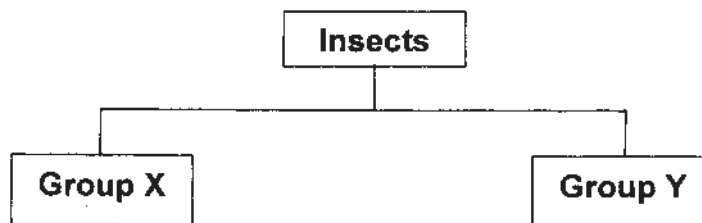
18. The table below tells us about some animals.

Animal	Feather	Wings	Have 2 legs	Can fly	Lay eggs
P		✓	✓	✓	
Q	✓	✓	✓		✓
R		✓		✓	✓
S	✓	✓	✓	✓	✓

Which of them are birds?

- 1) Q and S only
- 2) P, Q and S only
- 3) Q, R and S only
- 4) P, Q, R and S

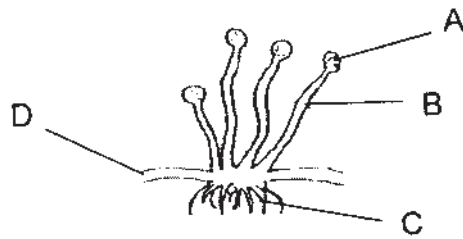
19. Study the classification chart below.



Which of the following **cannot** be used to sort insects into Group X and Group Y?

	Group X	Group Y
1)	Can fly	Cannot fly
2)	Live on land	Live in water
3)	Have wings	Do not have wings
4)	Have 3 body parts	Have 2 body parts

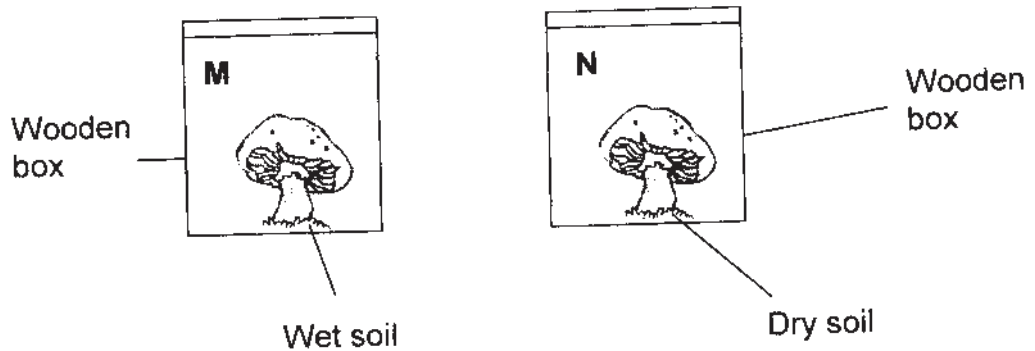
20. Study the diagram of the mould found on bread below.



Which part A, B, C or D helps the bread mould to reproduce?

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

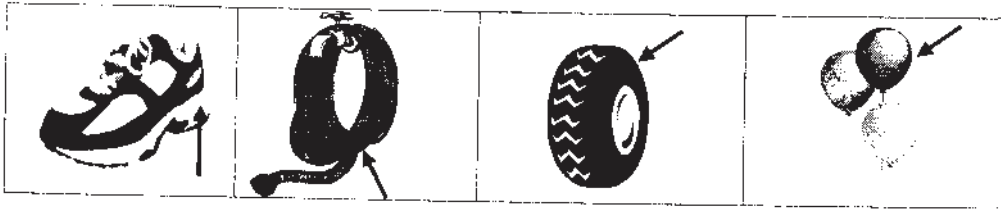
21. Two mushrooms are kept in two wooden boxes that allow air to pass through as shown below.



Mushroom M will _____ than Mushroom N.

- 1) die faster
- 2) grow bigger
- 3) become weaker
- 4) turn greener in colour

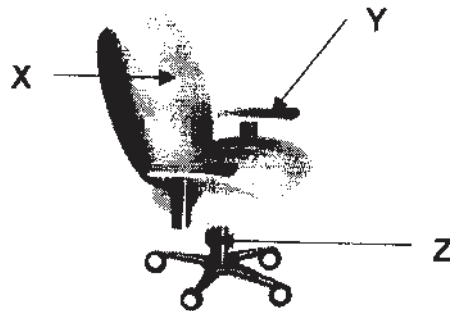
22. Study the four sets of pictures carefully.



Which material can be used to make the objects above?

- 1) Metal
- 2) Fabric
- 3) Plastic
- 4) Rubber

23. Which of the following correctly shows the materials used to make the parts X, Y and Z?

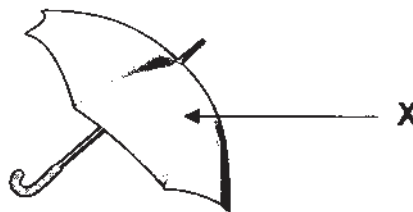


	X	Y	Z
1)	fabric	plastic	rubber
2)	leather	plastic	metal
3)	fabric	rubber	wood
4)	leather	metal	wood

24. The table below shows the properties of four materials.

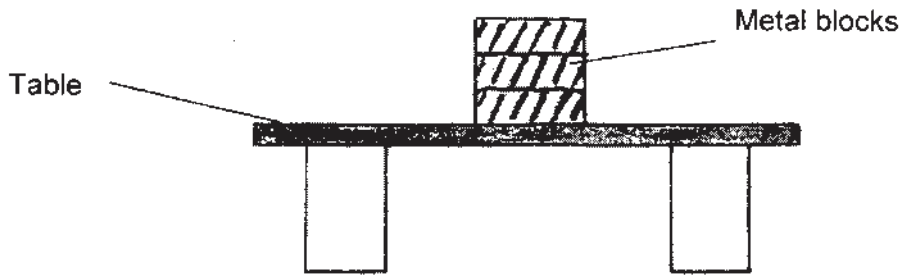
Material	Flexible	Waterproof	Transparent
P	Yes	No	No
Q	Yes	Yes	Yes
R	Yes	Yes	No
S	No	No	Yes

Among the four materials, which is the most suitable for making Part X of the object below so that it can protect us from both rain and sunlight?

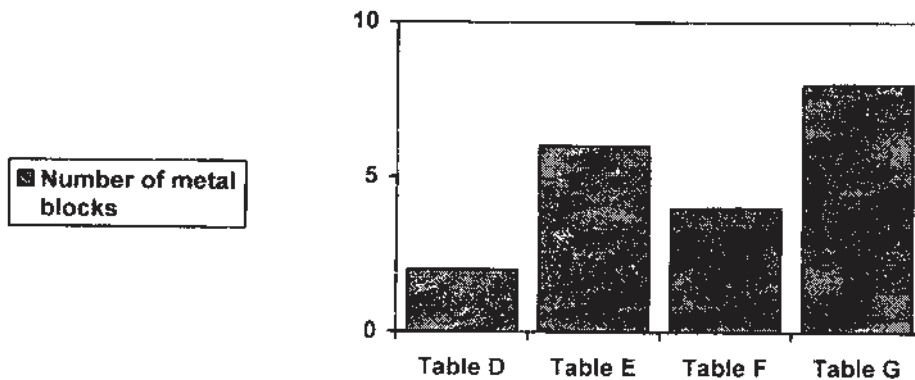


- 1) Material P
- 2) Material Q
- 3) Material R
- 4) Material S

25. Ron conducted an experiment on 4 tables, D, E, F and G. He added metal blocks on the table as shown below.



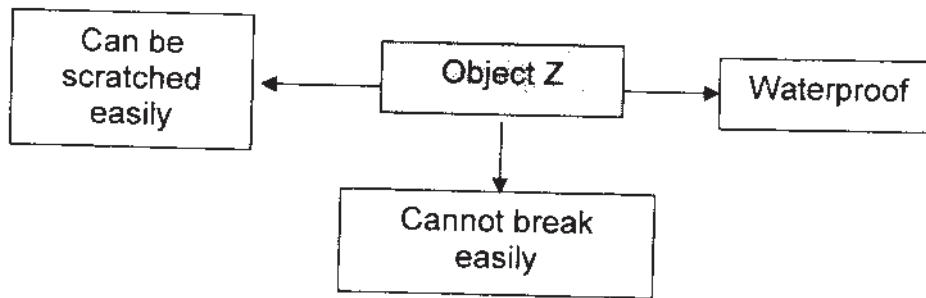
The graph below shows the maximum number of metal blocks added before the table broke.



Which of the following can be concluded from the result?

- 1) Table D has the greatest strength.
- 2) Table G is the hardest and strongest.
- 3) Table F has greater strength than Table D.
- 4) Table E is made from a harder material than Table F.

26. Study the flow chart below carefully.



What can Object Z be ?



chain



plastic bag



towel

- 1) Towel only
- 2) Chain only
- 3) Plastic bag only
- 4) Plastic bag and towel only

27. Mrs Tan and Mrs Lim were each carrying the same amount of grocery from the supermarket. The bags were made from different materials. While they were walking, Mrs Tan's grocery bag broke and her groceries dropped onto the floor.

Mrs Lim



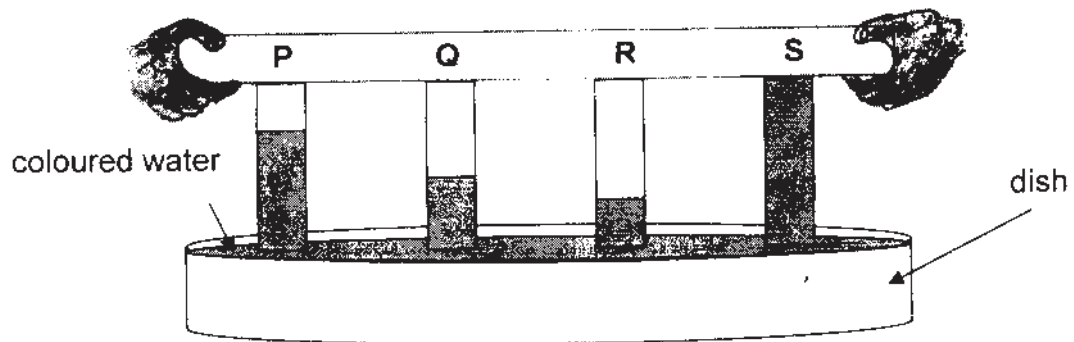
Mrs Tan



Which of the following statements best described their bags?

- 1) Mrs Tan's bag was stronger than Mrs Lim's bag.
- 2) Mrs Lim's bag was stronger than Mrs Tan's bag.
- 3) Mrs Tan's bag was not waterproof but Mrs Lim's bag was.
- 4) Mrs Tan's bag was made of plastic but Mrs Lim's bag was made of paper.

28. Ravi carried out an experiment as shown below. He placed an equal length of four different materials P, Q, R and S into a dish of coloured water.



The shaded part shows the amount of water absorbed by the materials.
Which one of the following about the materials is correct?

	Most absorbent	Least absorbent
1)	R	S
2)	Q	R
3)	P	Q
4)	S	R

29. Three objects, X, Y and Z are used to scratch one another. The observations are as follows:

- X cannot scratch on any of the other two objects.
- Y scratches all the other two objects.
- Z can only scratch on X.

Which of the following shows the correct order of materials from the hardest to the least hard?

- 1) Y, X and Z
- 2) Y, Z and X
- 3) Z, Y and X
- 4) X, Y and Z

30. Lily gave the following statements about an object. Study the statements below.

A : It is waterproof.

B : It breaks easily.

C : It feels smooth when I touch it.

Which of the following is the object most likely to be?

- 1) Coin
- 2) Tree branch
- 3) Photo paper
- 4) Ceramic plate

**HOUGANG PRIMARY SCHOOL
FIRST SEMESTRAL ASSESSMENT, 2009
SCIENCE
PRIMARY 3**

Name: _____ ()

Class : Pr. 3 (D)

Date : 14 / 05 / 09 Parent's Signature: _____

BOOKLET B

There are 14 questions in this booklet. (40 marks)

Total time for Booklets A and B is 1h 45 min.

Follow all the instructions carefully:

	Max. Marks	Marks Obtained
Booklet B	40	
Booklet A	60	
Overall Total	100	

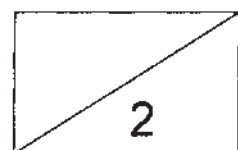
BOOKLET B (40 MARKS)

For questions 31 to 44, write your answers in the spaces provided.

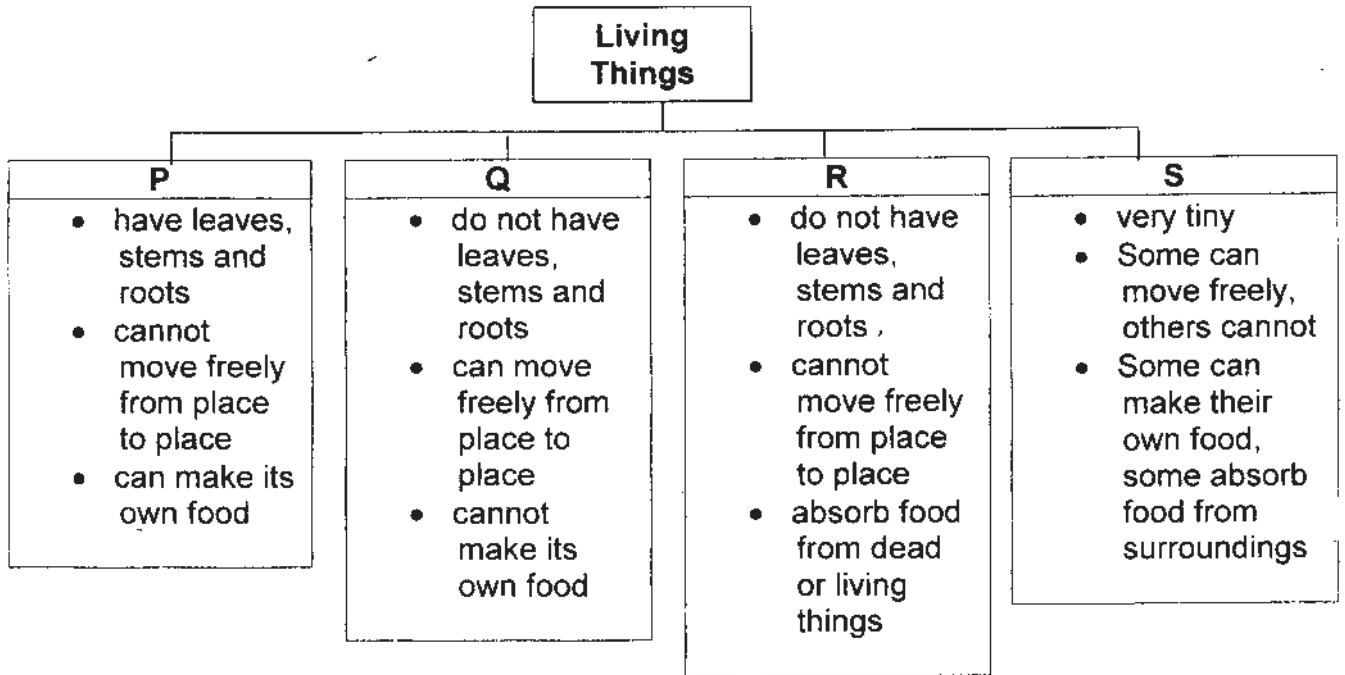
31. Each of the following sentences tells us something that living things can do.

Write the characteristics of living things in the blank provided. (2 m)

	What living things do	Characteristic of living things
Example	An apple seed becomes an apple tree	Living things can grow
a)	A monkey climbs up the tree.	
b)	I covered my ears when I heard the gun shot.	
c)	The driver was killed in the accident.	
d)	Ravi's cat had given birth to three kittens.	



32. Study the classification table below.



a) Write a suitable heading for P, Q, R and S. (2 m)

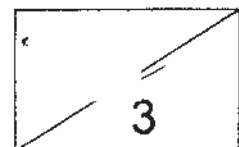
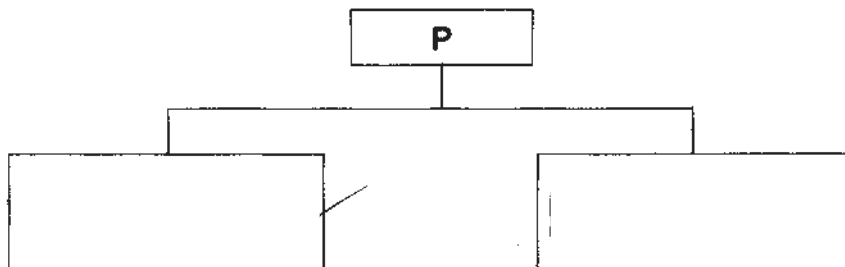
P : _____

Q : _____

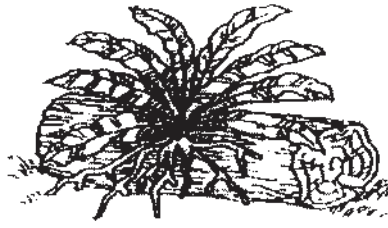
R : _____

S : _____

b) P can be further classified into 2 groups. Fill in the boxes a possible way to further classify P. (1 m)



33. Study the pictures below .



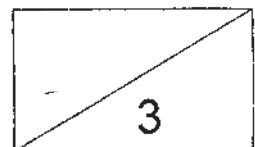
Plant X



Plant Y

- a) Based on what you observe only, name one **similarity** between Plant X and Plant Y. (1m)

- b) Based on what you observe only, name two **differences** between Plant X and Plant Y. (2m)



34. The table below shows four similar Animals A, B, C and D each put under a different condition.

Animal	Conditions		
	Air	Water	Food
A	✓	✓	✓
B	✓	✓	×
C	×	✓	✓
D	×	×	×

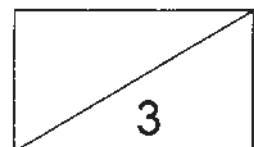
Key

✓ present
× absent

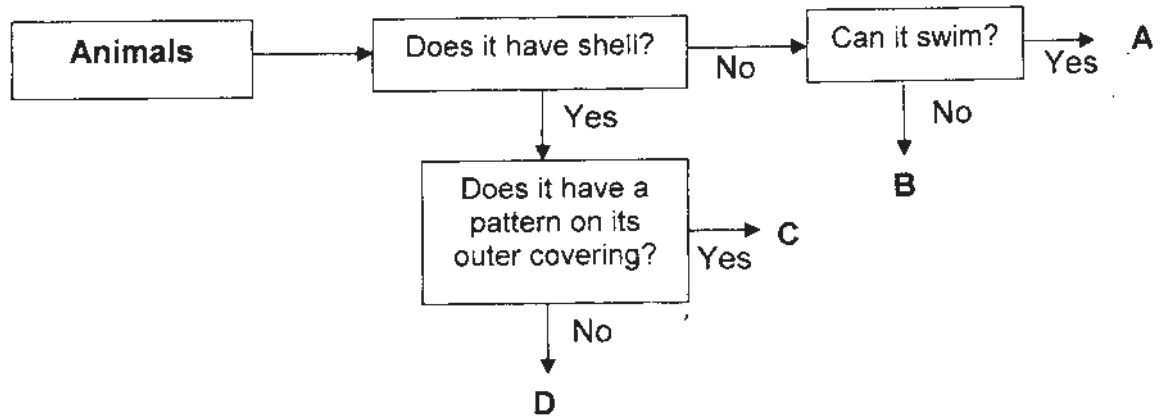
a) Which animal will die first? Why? (1 m)

b) Which animal will survive the longest? (1 m)

c) From the above data, how are the conditions the same for both Animal A and Animal B. (1 m)

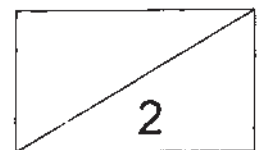


35. Study the following classification chart below.

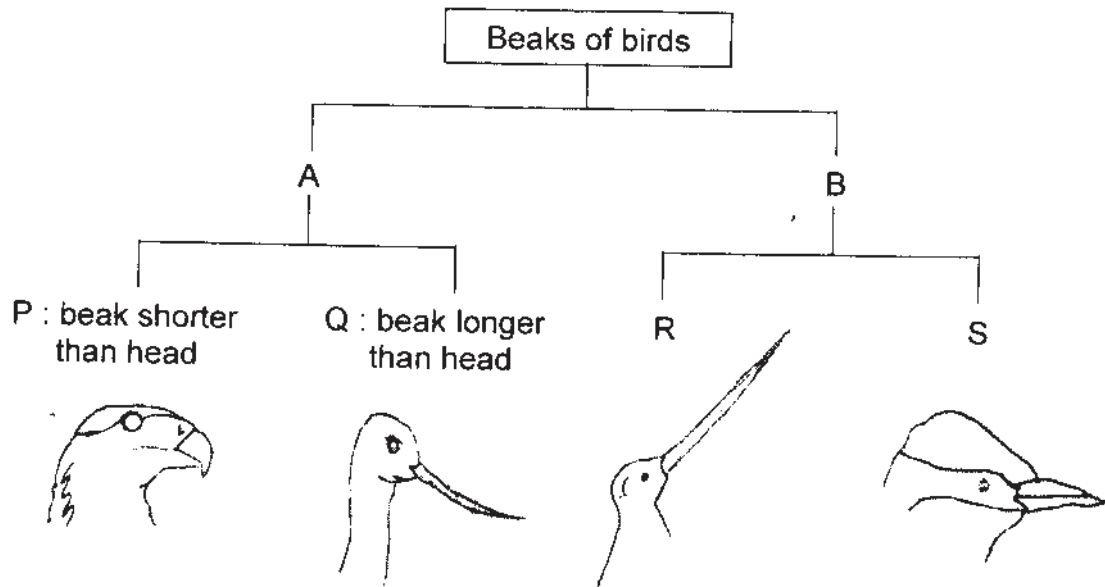


a) State the similarity between A and B. (1 m)

b) Using the information above, write the letters, A, B, C or D to show where the animals shown below can be placed. (1 m)



36. The diagram below shows how different groups of birds are classified according to certain characteristics, A, B, P, Q, S and ~~X~~R. The characteristics for P and Q have been filled in.



- a) Based on the diagram, what could be the characteristics of A, B, R and S? (2 m)

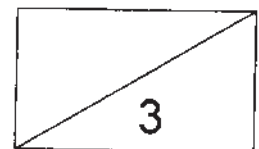
A: _____

B: _____

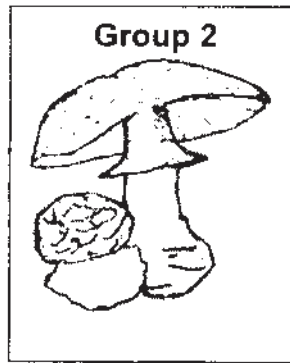
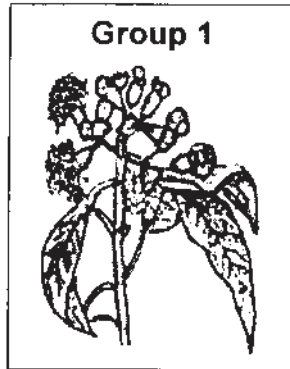
R: _____

S: _____

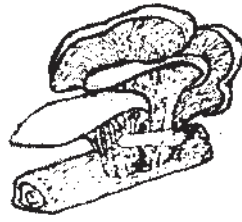
- b) Name one common characteristic of birds. (1 m)



37. Mrs Han groups two organisms into Group 1 and Group 2 as shown below.



P



Q



R



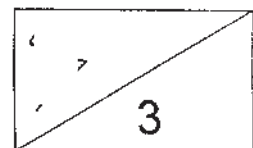
S

Mrs Han wants her pupils to classify the other organisms (P, Q, R and S) into Group 1 and Group 2.

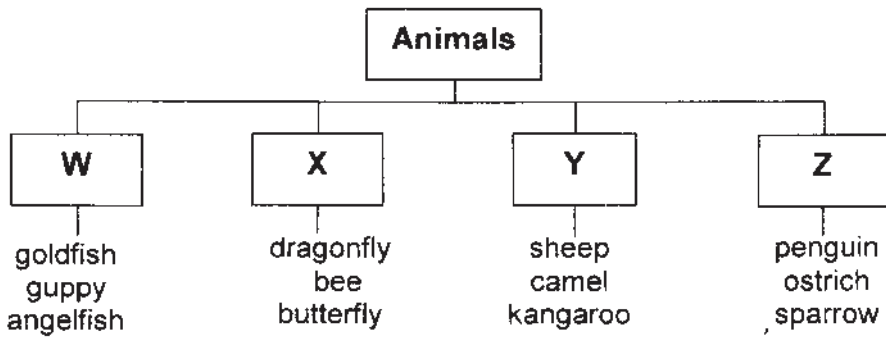
a) Classify organisms P, Q, R and S into Group 1 or Group 2. (2m)

Organisms	
Group 1	Group 2

b) In what way are the organisms classified? (1m)



38. The animals are classified into Groups W, X, Y and Z.

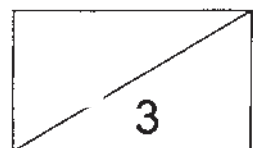


a) Based on the animals in each group, give one similarity of animals in Group X and Z. (1 m)

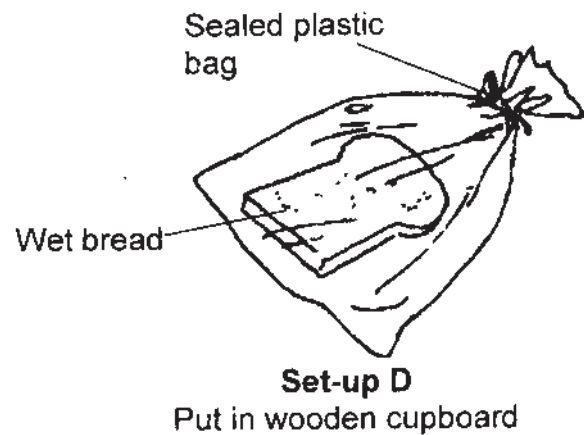
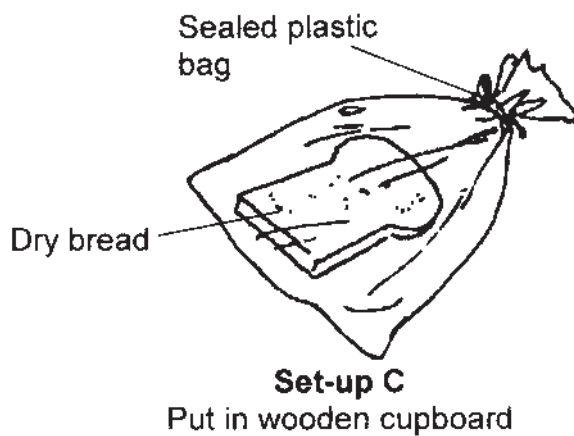
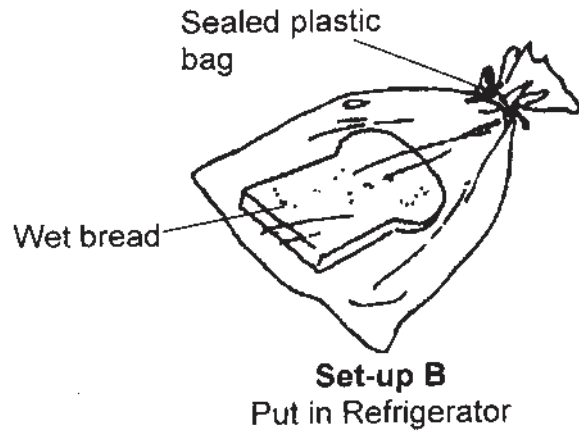
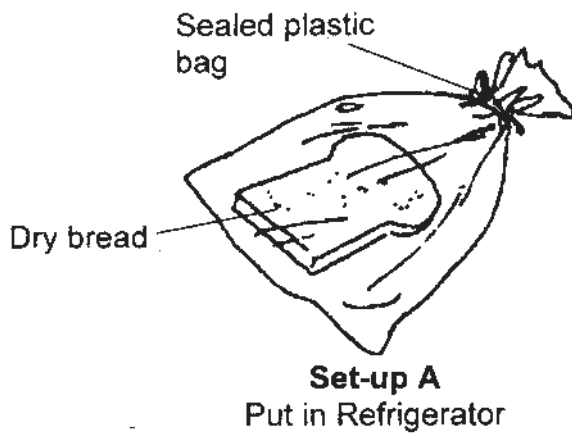
b) Name the outer coverings of animals in Group: (2 m)

W : _____

Y : _____



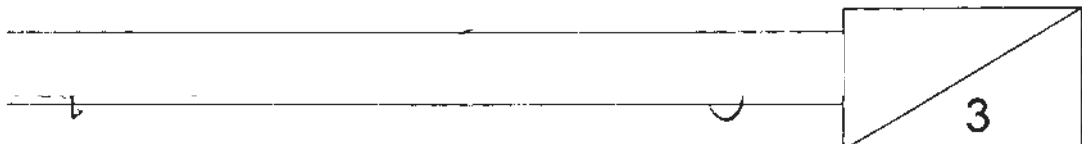
39. Timothy carried out an experiment to find out more about the growth of mould in bread. The experiment is as follows:



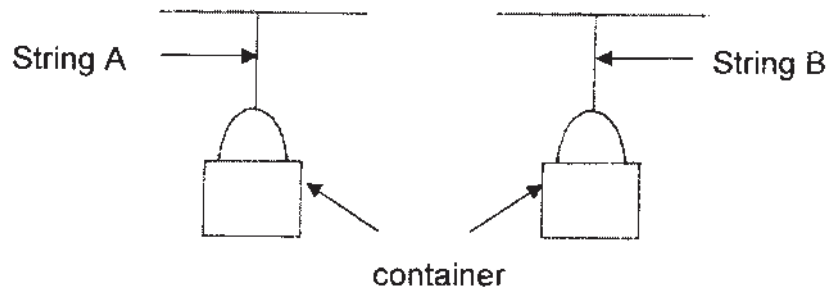
After 3 weeks, he noticed mould growing on the bread in only one of the set-ups.

a) Which set-up would Timothy notice the mouldy bread? (1 m)

b) Based on the experiment above, state the conditions required for the the mould to grow? (2 m)



40. A group of pupils carried out an experiment to compare the strength of two strings, A and B. They set up the experiment as shown in the diagram below.

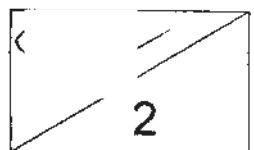


They put marbles one at a time into each of the containers until the strings snapped. They repeated the experiment 2 more times to make sure that their results were correct. They recorded the results in the table shown below.

	Number of marbles in container before the strings snapped		
	1 st trial	2 nd trial	3 rd trial
String A	14	12	14
String B	20	22	21

- a) What string is stronger? (1m)

- b) Why do you say so? (1m)

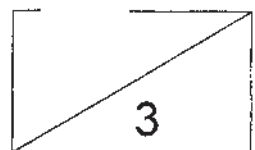


41. Danny is given a piece of chalk and an iron nail. He wants to find out which material is harder.

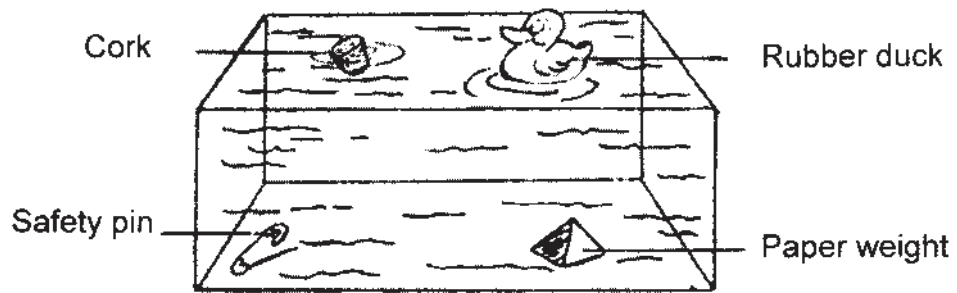
a) Using only the chalk and the nail, describe how he can carry out his experiment. (1m)

b) What will he observe to say that the nail is harder than the chalk? (1m)

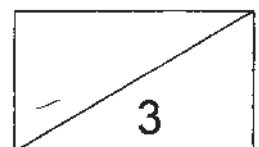
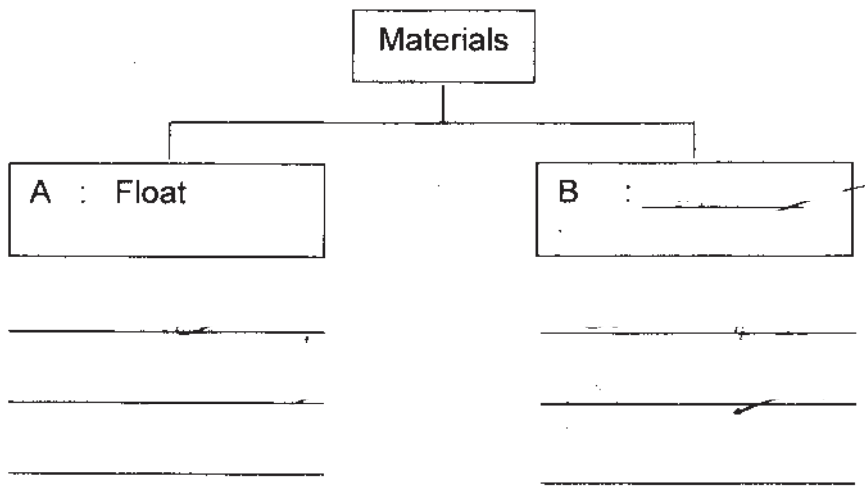
c) What should Danny do to test if the nail is flexible? (1m)



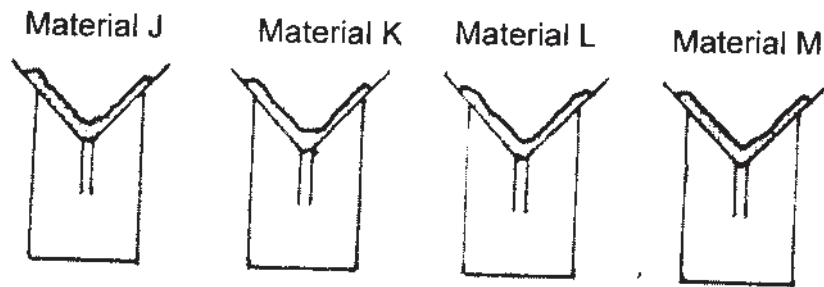
42. Look at the items in the diagram below.



Compare the classification table below by writing the heading for B and classifying the other items in the diagram above. (3m)

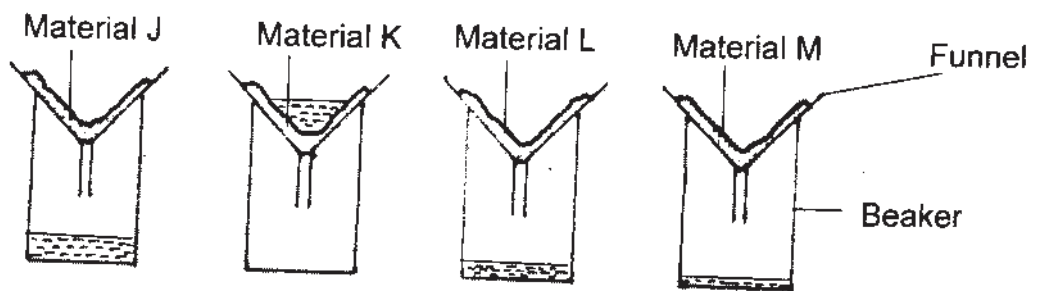


43. Janice wanted to find out how absorbent each of the four materials J, K, L and M would be.



She put the four funnel with different materials over it as shown above. Then she poured 250 ml of water into each of the funnels.

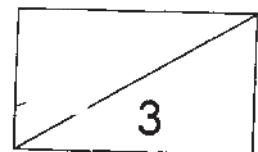
The diagram below shows her results at the end of one minute.



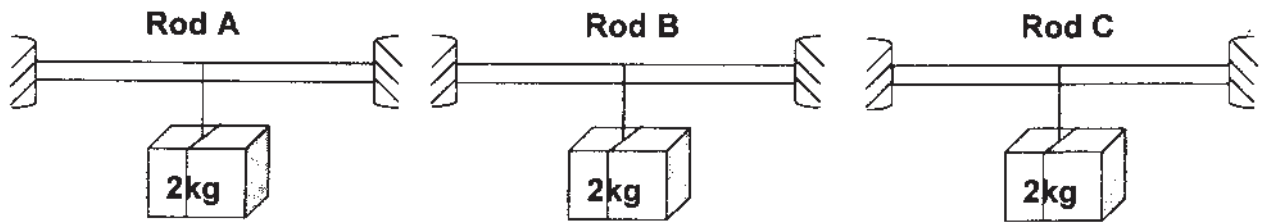
- a) What should she measure to decide which type of material is the most absorbent? (1m)

- b) Which material absorbs the most amount of water? (1m)

- c) Which material is most likely to be waterproof? (1m)



44. Benny did an experiment. He hung a 2 kg weight on the rods made of different materials. All the rods have equal length and thickness.



He recorded his observations in the table below.

Rod	Observations
A	rod broke
B	no change
C	rod bent

- a) In this experiment, what was Benny testing? (1 m)

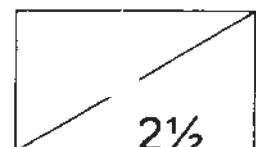
- b) Based on the results of the experiment, identify the material used to make A, B and C using the helping words shown in the box below. (1 ½ m)

Metal Rubber Plastic

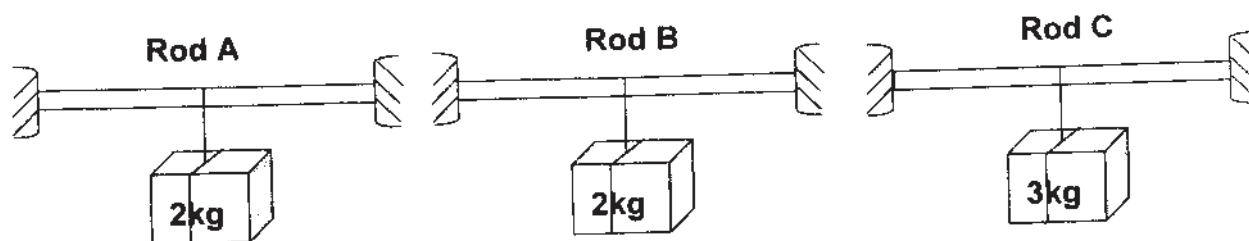
Rod A : _____

Rod B : _____

Rod C : _____

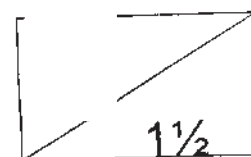


He continued his experiment again with the same materials as above to make sure his results were correct. But he changed one of the weights as shown below.



c) Do you think this test is fair? Why? (1½m)

-----End of Paper-----



Hougang Primary School - 2009 - P3- SA1 - Science

Booklet A - MCQ :

(01) 3	(02) 2	(03) 4	(04) 1	(05) 3
(06) 4	(07) 4	(08) 4	(09) 4	(10) 1
(11) 3	(12) 3	(13) 3	(14) 3	(15) 4
(16) 3	(17) 3	(18) 1	(19) 4	(20) 1
(21) 2	(22) 4	(23) 2	(24) 3	(25) 3
(26) 3	(27) 2	(28) 4	(29) 2	(30) 4

Booklet B :

- (31) a) Living things can move by themselves. b) Living things respond to changes.
c) Living things die. d) Living thing reproduce.
- (32) (a) P : Plants Q : Animal
R : Fungi S : Micro-Organisms (b) Flowering / Non-Flowering
- (33) (a) Plant X and Y have leaves. (b) Plant Y has stem while plant X doesn't have stem.
Plant Y grows on the ground while plant X grows on a log.
- (34) (a) Animal D will die first because it doesn't have air, food and water. (b) Animal A will survive the longest.
(c) Animal A and B have air and water.
- (35) (a) Animal A and B do not have shell. (b) C
- (36) (a) A : curve beak B : straight beak
C : beak longer than head (b) birds lay eggs; Birds have beak; Birds have feather and wings; Birds breath thru lung.
D : beak shorter than head
- (37) (a) Group 1 : R, P; Group 2 : Q, S (b) Group 1 is plants and Group 2 is fungi.
- (38) (a) Group X and Z have wings (b) W: scales Y : hairs
- (39) (a) set-up D (b) mould required warm temperature and moisture to grow.
- (40) (a) string B (b) more marbles can be put in the container before the string snapped.
- (41) (a) He can carry out the experiment by scratching the nail against the chalk. (b) He will observe scratch marks on the chalk.
(c) Danny should try to bend the nail.
- (42) A : cork, rubber duck B : safety pin, paper weight
- (43) (a) She should measure the water level to decide which type of the material is the most absorbent. (b) Material M
(c) Material K
- (44) (a) Benny was testing which rod is the strongest. (b) A : Plastic B: Metal C : Rubber
(c) No! He shouldn't change only one of the weight. He must use the same weight to test the three rods.