

CATHOLIC HIGH SCHOOL
PRIMARY THREE
SEMESTRAL ASSESSMENT 1
2008

SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 8th May 2008

BOOKLET A

30 Questions
60 Marks

Total Time for Booklets A & B : 1 hour 30 min

Instructions to Candidates

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Section A: Multiple Choice Questions(60 marks)

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

1. Study the following sentences about living things.

- A Mary moved her hand away after touching a hot kettle.
- B The leaves of a mimosa plant folded when Tony brushed past it.
- C The pigeon flew away when a lorry drove past.

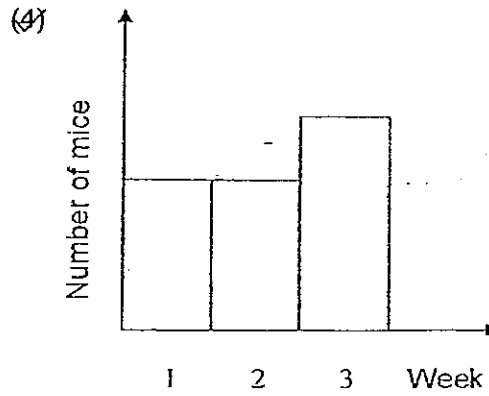
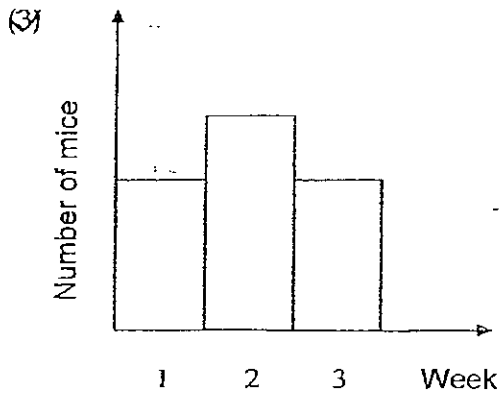
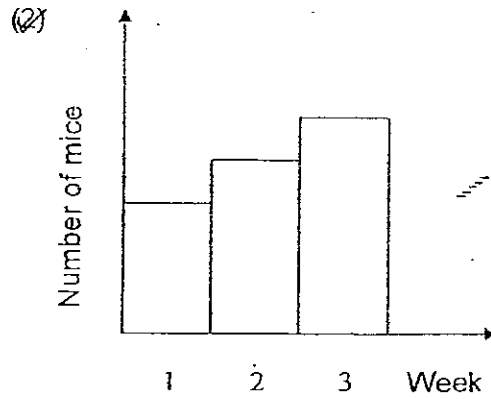
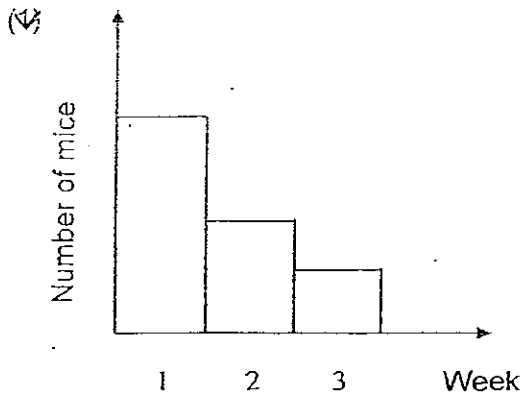
The above examples show that living things _____

- (1) can only move very slowly
- (2) respond to changes around them
- (3) have to be moved by non-living things
- (4) have to be moved by other living things

2. Which one of the following objects is made from materials that were never alive?

- (1) Tyre
- (2) Paper
- (3) Fur coat
- (4) Sandcastle

3. Angie put 6 baby mice in a box and gave them water. She did not feed them at all. Predict the graph that shows the correct number of mice alive by the end of three weeks.



4. Study the characteristics of A, B, C and D. A tick (✓) indicates that it has the characteristics.

	Ability to move from place to place	Needs water	Reproduces	Has legs
A		✓		
B	✓	✓	✓	✓
C	✓	✓	✓	
D	✓			

Which one of the following is most likely to be a non-living thing?

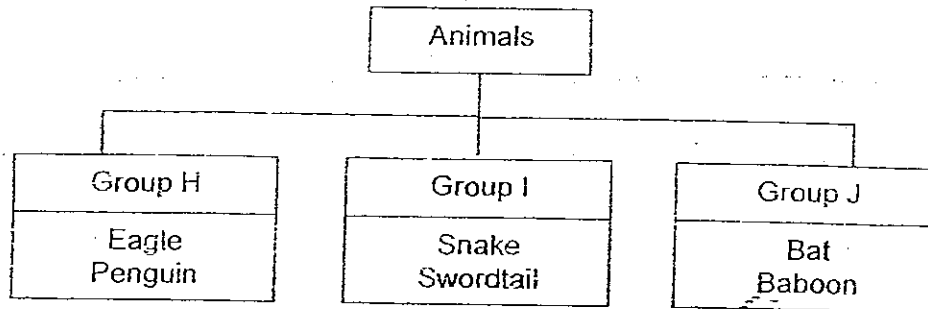
- (1) A
 (2) B
 (3) C
 (4) D

5. Which one of the following is not a characteristic of fungi?

- A They have chlorophyll.
 B They reproduce by spores.
 C They cause their food to decay.

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

6. The diagram below shows a classification table.



Which of the following animals can be placed under Groups H, I and J respectively?

	H	I	J
(1)	Lion	Chicken	Piranha
(2)	Kingfisher	Crocodile	Tiger
(3)	Duck	Monkey	Tortoise
(4)	Rhinoceros	Ostrich	Lizard

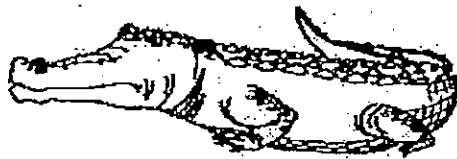
7. Which one of the following is not an insect?

- (1) Spider
- (2) Butterfly
- (3) Mealworm
- (4) Grasshopper

8. Which one of the following statements below is true?

- (1) Moulds only grow on dry substances.
- (2) Bacteria cannot grow in bright places.
- (3) Fungi and bacteria cause food to decay.
- (4) Decomposers thrive in cold environment.

9. Look at the animals below. Which one of the following characteristics is shared by all the animals?



- (1) They lay eggs.
- (2) They have scales.
- (3) They are warm-blooded.
- (4) They live both in water and on land.

10. Which of the following are micro-organisms?

- A Yeast
- B Bacteria
- C Mushrooms
- D Bracket Fungus

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

11. Which one of the following plants can be put in the same group as mosses and conifers?

- (1) Ferns
- (2) Lilies
- (3) Orchids
- (4) Frangipani

12. Which one of the following statements about the insects below is true?



- (1) Each of them has one pair of wings.
- (2) Their bodies are covered with shell.
- (3) Each of them has one pair of feelers.
- (4) Only the praying mantis has two claws.

13. Which one of the following is the best approximate height of the mushroom shown below?



- (1) 20 millimetres
- (2) 25 millimetres
- (3) 35 millimetres
- (4) 40 millimetres

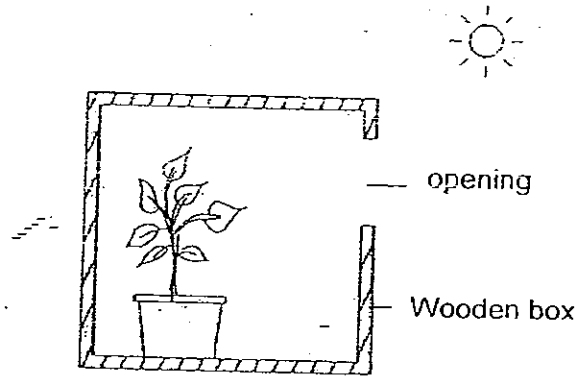
14. Study the table below.

X	Y	Z
Horse	Hen	Beetle
Kangaroo	Peacock	Praying mantis

Which one of the following characteristics correctly match the animals given in the table above?

	X	Y	Z
(1)	Have four legs	Have two legs	Have six legs
(2)	Eat plants only	Eat animals only	Eat plants and animals
(3)	Walk	Swim	Hop
(4)	Have feathers	Have scales	Have fur

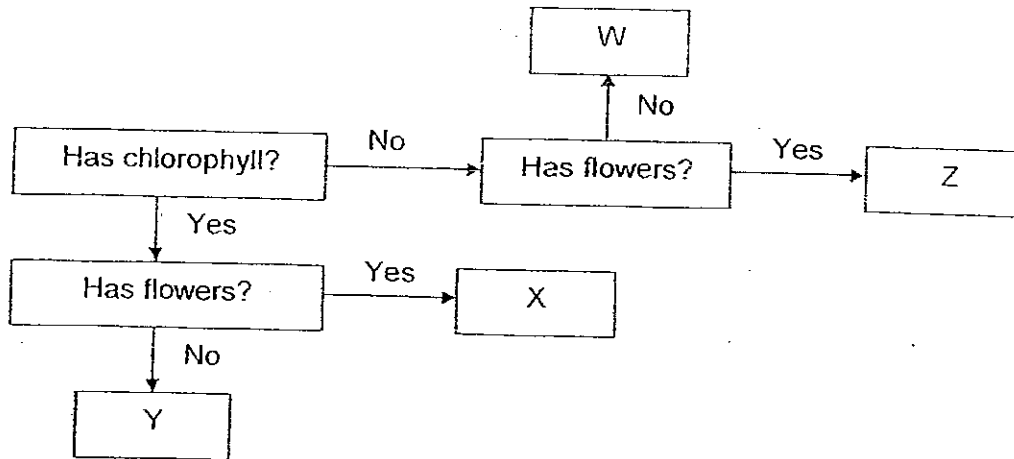
15. Look at the picture below. A plant is placed in a wooden box with an opening near the window.



Which one of the following will happen?

- (1) All the leaves will wither.
 - (2) The plant will stop making food.
 - (3) The leaves of the plant will grow towards the opening of the cupboard.
 - (4) The part of the plant that faces the opening will have lesser leaves.
16. Lydia has a pot of orchid plant and a pot of artificial orchid plant. Which one of the following is the incorrect method to find out which is the real plant?
- (1) Place them near the window sill.
 - (2) Count the number of leaves they have.
 - (3) Leave them without watering for a few days.
 - (4) Check for wilting or dying leaves and flowers.

17. Study the flow chart below.



Which one of the following are examples of X and Y?




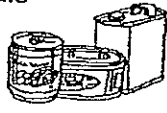
	X	Y
(1)	Mould	Stag horn fern
(2)	Hibiscus	Rose
(3)	Water lily	Mushroom
(4)	Sunflower	Bird's nest fern

18. Which one of the following statements about a bat and a hen is incorrect?



- (1) Both of them are birds because they have wings.
- (2) A bat gives birth to its young but a hen lays eggs.
- (3) A bat has hair on its body but a hen has feathers.
- (4) The bat has big ears but the hen has small hidden ears.

19. Below are examples from four groups of materials, showing their uses and properties that make them suitable for use. Which one of the materials has been wrongly matched to its uses and the reasons provided for choosing it?

	Material	Uses	Reasons for choosing material
(1)	Glass 	Wine bottles and jam jars	- Transparent - Hard
(2)	Fabrics 	Cotton clothes	- Lightweight - Not flexible - Unable to absorb dyes
(3)	Plastics 	Plastic drink and food containers	- Lightweight - Does not absorb heat easily - Waterproof
(4)	Metals 	Drink cans	- Strong - Does not rust - Opaque

20. Concrete is usually used to make a wall because it is _____.

- (1) hard and strong
 (2) flexible and light
 (3) soft and bends easily
 (4) waterproof and transparent

21. Toys for little children are usually made from plastic and rubber. This is because such toys need to be _____.



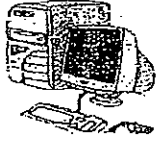
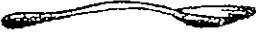
- 1) expensive
 2) breakable
 3) smooth and shiny
 4) durable

22. Which of the following properties are needed in a material used to make a raincoat?

- A Light
- B Flexible
- C Colourful
- D Waterproof

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

23. Which one of the following can be made from recycled materials?

<p>(1)</p>  <p>Leather belt</p>	<p>(2)</p>  <p>Paper bag</p>
<p>(3)</p>  <p>Computer</p>	<p>(4)</p>  <p>Metal spoon</p>

24. Daniel used a pencil and eraser to scratch each other. He realized that he can use a pencil to scratch the eraser but not the other way round.



What conclusion can Daniel make from his experiment?

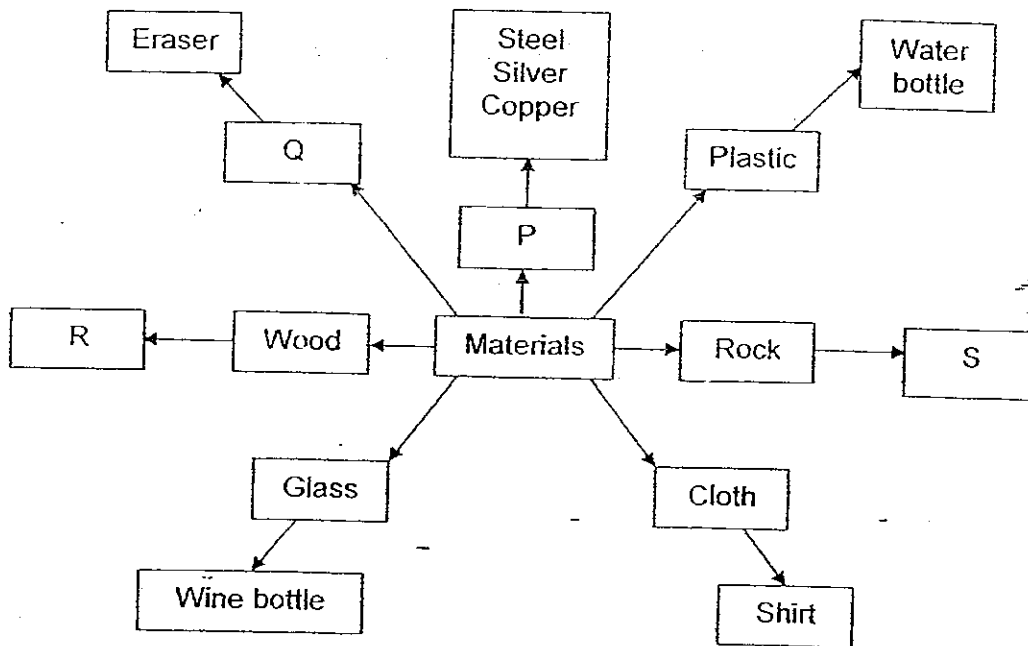
- (1) The pencil is lighter than the eraser.
 - (2) The pencil is harder than the eraser.
 - (3) The pencil is heavier than the eraser.
 - (4) The eraser is more flexible than the pencil.
25. Study the table below. A tick (✓) indicates the item has the property.

Item	Can be stretched easily	Bends easily	Absorbent
A	✓	✓	
B	✓	✓	✓
C		✓	✓

Which one of the following correctly represents A, B and C?

	A	B	C
(1)	Diapers	Rubber band	Sponge
(2)	Rubber band	Diapers	Sponge
(3)	Sponge	Diapers	Rubber band
(4)	Sponge	Rubber band	Diapers

26. Study the classification table below.



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

	P	Q	R	S
(1)	Sand	Paper	Metals	Rubber
(2)	Metals	Rubber	Paper	Sand
(3)	Paper	Sand	Rubber	Metals
(4)	Rubber	Metals	Sand	Paper

27. Most grocery bags in Singapore are made from plastic. Which one of the following is the reason for not using paper as the material to make grocery bags?

- (1) Paper is too hard.
- (2) Paper is too heavy.
- (3) Paper is not waterproof.
- (4) Paper allows does not allow light to pass through.

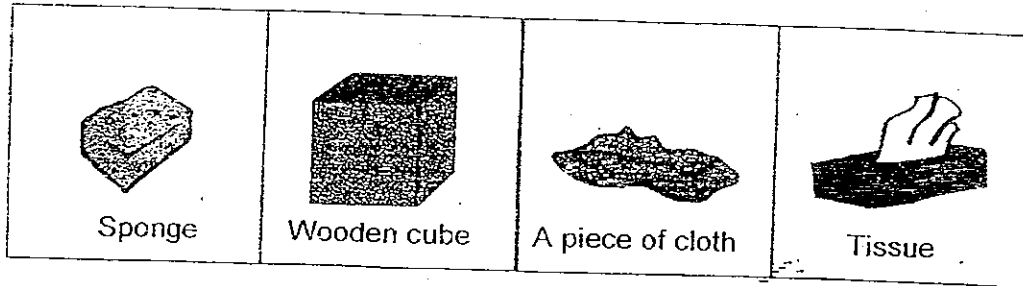
28. Look at the following list of materials.

Iron	Plastic	Glass	Steel	Diamond	Copper	Rubber
------	---------	-------	-------	---------	--------	--------

Which one of the following statements about the above materials is correct?

- (1) Iron and steel are metals but the rest are non-metals.
- (2) Copper, iron and steel are metals but the rest are non-metals.
- (3) Plastic and rubber are hard materials but the rest are soft materials.
- (4) Glass, diamond and steel are strong and hard materials but the rest are not.

29. Yvonne was given four objects as shown below.



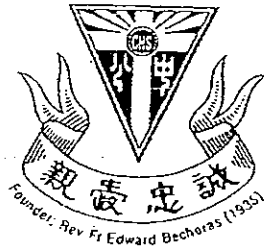
She weighed the four objects and soaked them in a basin of water. Then, she weighed the objects again and compared the increase in weight. The aim of the experiment was to find out _____.

- (1) how hard the objects were.
- (2) which object is most absorbent.
- (3) the increase in length of the objects.
- (4) the decrease in weight of the objects.

30. Study the classification table below for some materials. A tick (✓) indicates the material has the property. Which one of the following materials in the table below has wrong properties?

	Material	Properties		
		Flexible	Sink in water	Hard and strong
(1)	Metal		✓	✓
(2)	Wood		✓	✓
(3)	Rubber	✓		
(4)	Plastic	✓		

End of Section A



**CATHOLIC HIGH SCHOOL
PRIMARY THREE
SEMESTRAL ASSESSMENT 1
2008**

SCIENCE

Name: _____ - ()

Class : Primary 3 _____

Date : 8th May 2008

BOOKLET B

16 Questions
40 Marks

Total Time for Booklets A & B : 1 hour 30 min

Instructions to Candidates

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Parent's Signature: _____

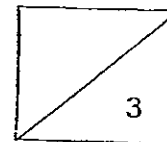
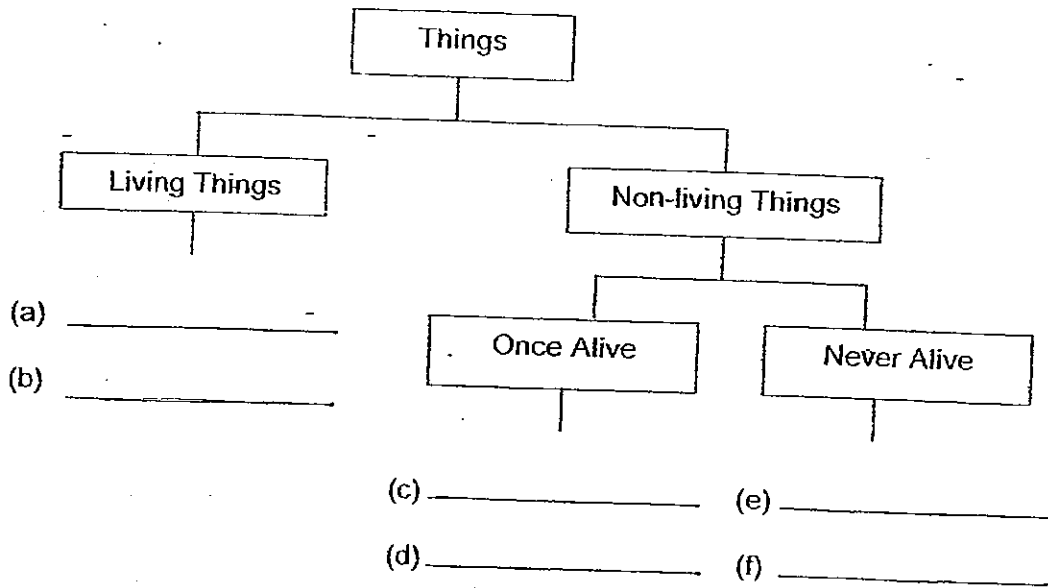
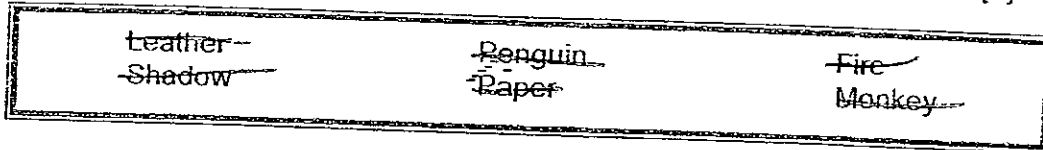
Date: _____

Score	
Section A	60
Section B	40
Total	100

Section B : Open-Ended Questions (40 marks)

Read the following questions carefully and write your answers in the space provided. The maximum marks that can be awarded is shown at the end of each question or part-question.

31. Fill in the table with the words given in the box below. [3]

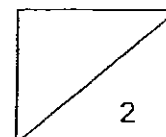


32. Sally classified some items in a table as shown below.

Living things	Non-living things
Robot	Table
Chameleon	Plastic ruler
Prawn	Diamond ring

(a) Which one of the following items in the table above was classified wrongly? [1]

(b) Give an example of an item which can be put in place of the wrongly classified item. [1]



33. Amy observes her dog for about one hour in the evening. Her observations are shown in the chart below.

Time	Observations of the pet dog
5:00	Dog eats food from bowl.
5:10	Dog stretches, runs into my room.
5:14	Dog jumps onto my bed. My sister puts him into his basket.
5:16	Dog plays with his bone.
5:19	Dog drinks from dish in the balcony.
5:21	Dog jumps on the living room sofa and falls asleep.
6:00	Dog wakes up, runs to me. I pick him up and hold him.
6:01	Dog struggles out of my arms. He runs back to his basket.

- (a) According to Amy's observations, which activity did the dog do for the longest time?

[1]

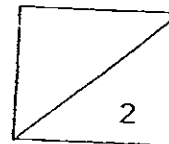
- (b) Which one of the following characteristics of living things did the dog shows the most during the period of observation? –
Tick the correct answer.

[1]

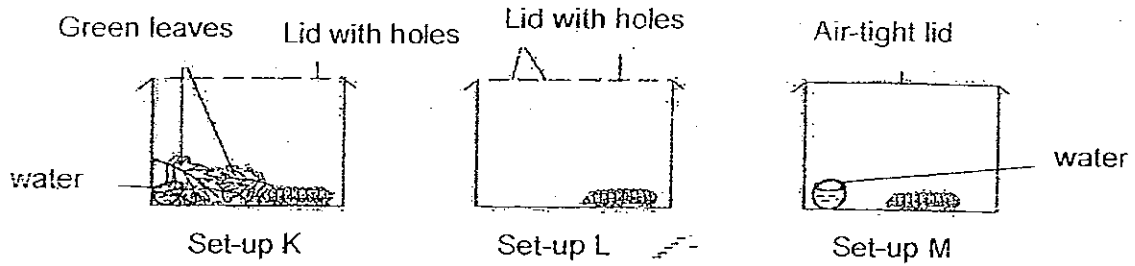
Reproducing

Taking in food

Responding to the environment

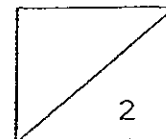


34. Study the following experiment carefully.
A caterpillar was put into each of the three containers as shown below.

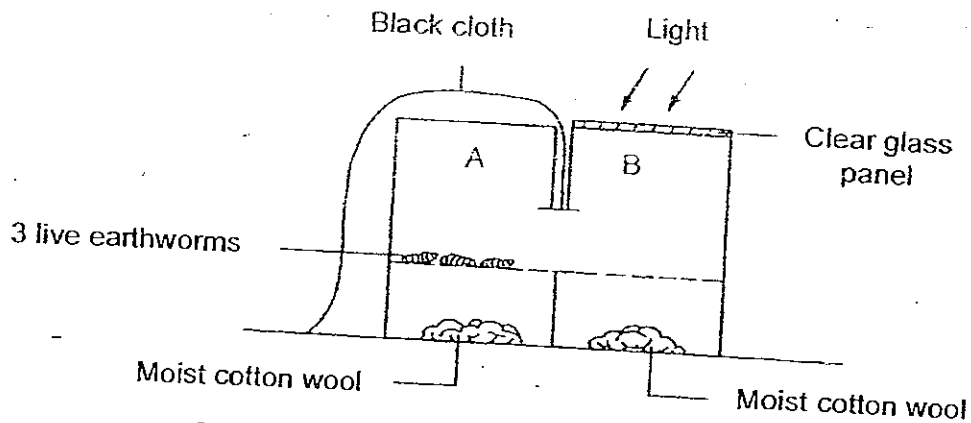


- (a) The caterpillar in which set-up will be alive after 2 weeks? [1]

- (b) What conclusion can you make from this experiment? [1]

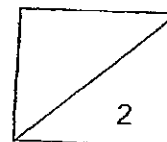


35. Elis placed three live earthworms into the set-up as shown in the diagram below. She shone a bright light through the glass panel. She noticed that the earthworms were found in Part A of the set-up after half an hour.

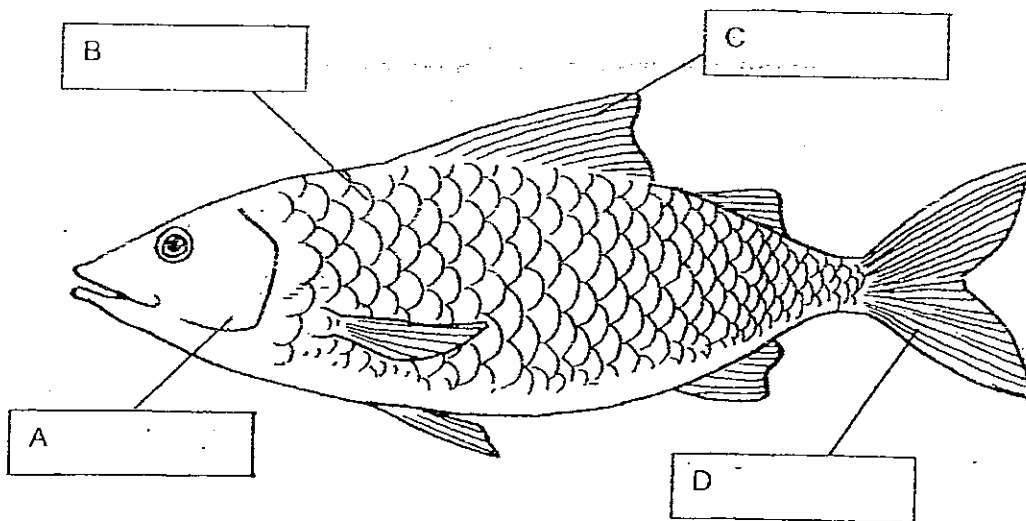


- (a) Based on the experiment, the three live earthworms had shown some characteristics of living things. List one of them. [1]

- (b) Based on the experiment, what type of environment do the earthworms like? [1]

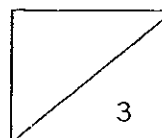


36. Look at the picture below.



(a) Name the parts of the fish (A, B, C and D) in the spaces provided. [2]

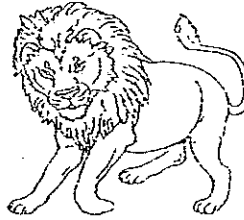
(b) What is the function of Part B? [1]



37. Observe the two animals below.



A fly

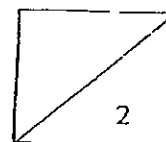


A lion

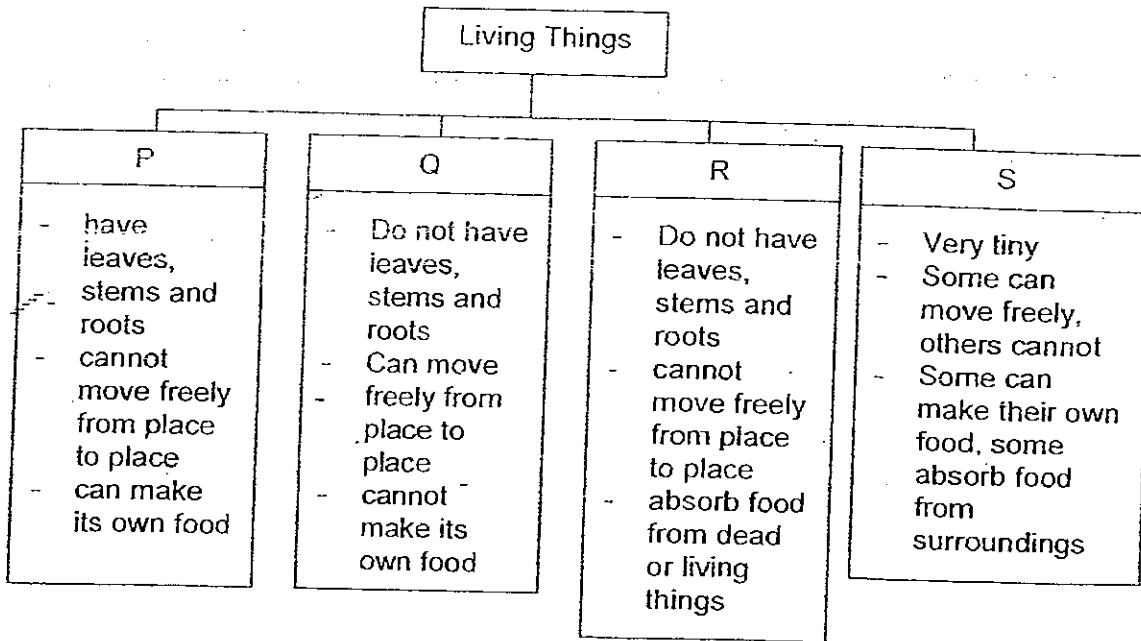
(a) State one difference that you can observe between the two animals. [1]

(b) Put a tick next to the animal that has similar body covering as the lion. [1]

Animal	Tick (✓) if it has similar body covering as lion
Owl	
Cow	
Frog	
Crocodile	



38. Study the classification table below.



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

P - _____

Q - _____

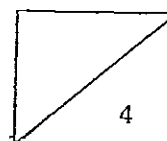
R - _____

S - _____

(b) Fill in the blanks in the paragraph below with the most appropriate word for each blank. [2]

Fungi are not _____ because they do not make their own food. They lack the green pigment called _____.

Mushroom, a type of fungus, reproduces by _____ found in their _____.

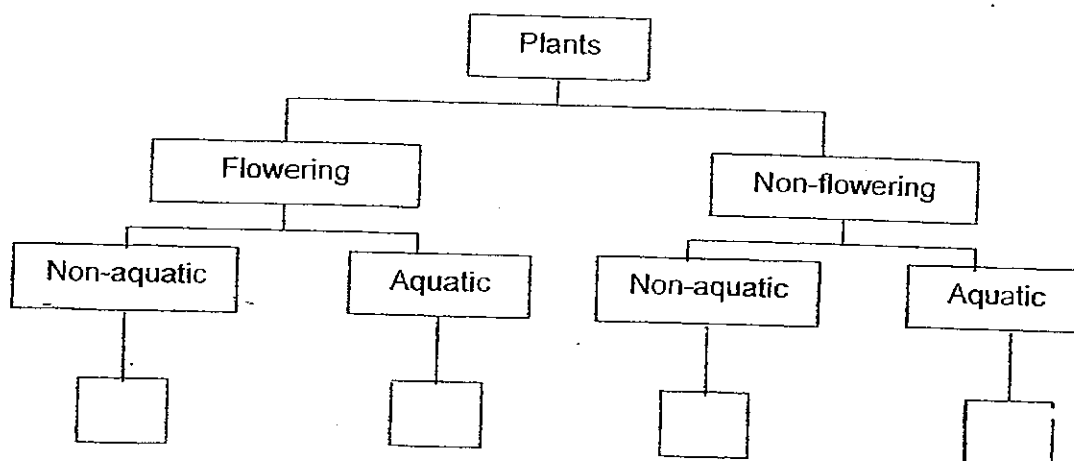


39. The table below shows information on four plants, E, F, G and H, based on two characteristics. A tick (✓) shows that the plant has the characteristic.

Characteristics	E	F	G	H
Bears fruit		✓		✓
Grows on land	✓			✓

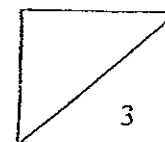
- (a) From the information given above, categorise Plant F and G in the classification chart below.

[2]

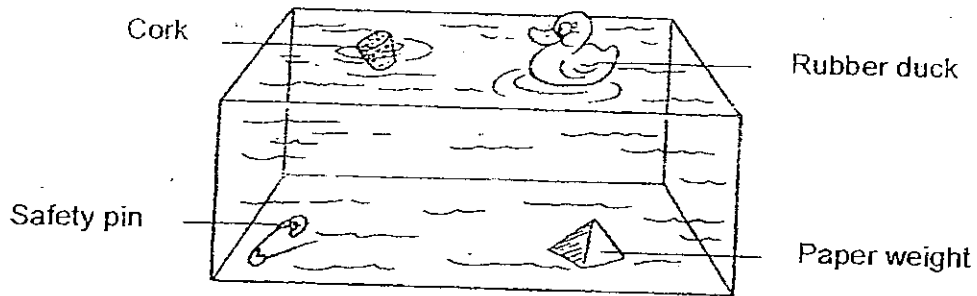


- (b) State another way of classifying plants.

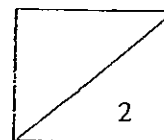
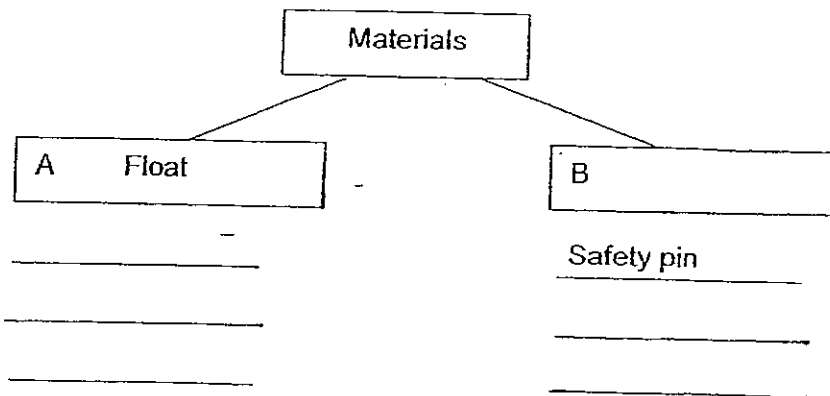
[1]



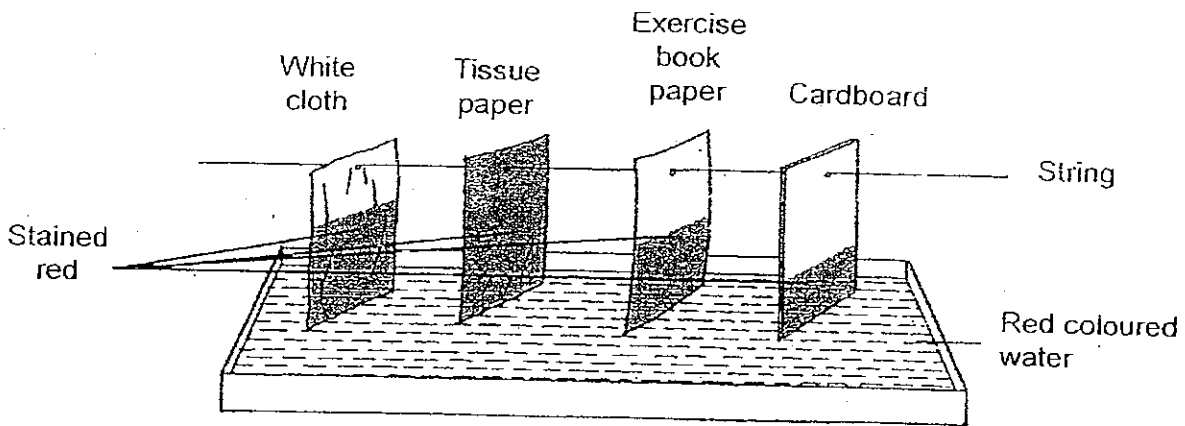
40. Look at the items in the diagram below.



Complete the classification table below by writing the heading for B and classifying the other items in the diagram above. [2]

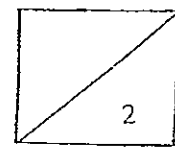


41. Joel did an experiment as shown in the diagram below.

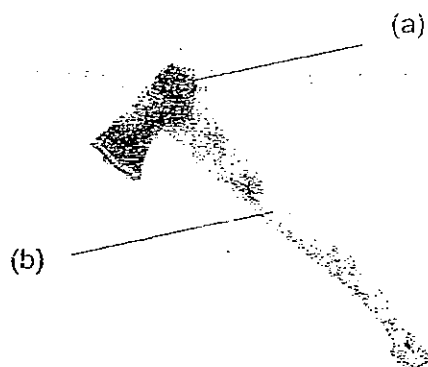


(a) What do you think is the aim of Joel's experiment? [1]

(b) Which of the above materials is most suitable to wipe your perspiration? Give a reason to support your answer. [1]

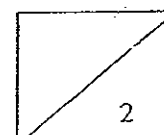


42. The diagram below shows an axe.



Name the material that is used to make each part of the axe. State the property of the material that makes it suitable. [2]

	Material used	Physical Property
(a)		
(b)		

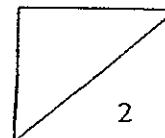


43. Genevieve wants to make a bag to carry 10 oranges. She was given the following materials to choose from.

Newspaper	aluminium foil	cloth	thin glass panel
-----------	----------------	-------	------------------

- (a) Which one of the materials do you think she should use? Explain your answer in (a). [1]

- (b) Diamond can be used to cut glass but glass cannot cut diamond. Explain why. [1]



44. Tony was given a piece of material. Describe the tests he can carry out and observations he could make.

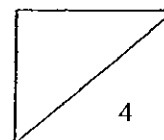
He wants to find out whether the material is

- (a) harder than a piece of chalk [2]

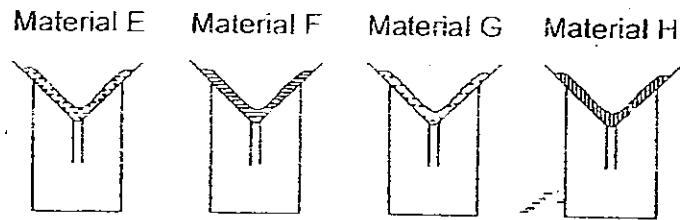
Test	
Observation	

- (b) flexible [2]

Test	
Observation	



45. Ivan and Sandy wanted to find out how absorbent each of the four materials E, F, G and H would be.



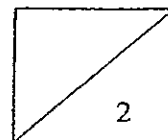
These were the steps they took.

- Step 1 Lined the four funnels with different materials as shown above.
- Step 2 Poured 200 millilitres of water into each of the funnel.
- Step 3 After 30 seconds, they removed the funnel (including each material) and looked at the level of water in the four containers.

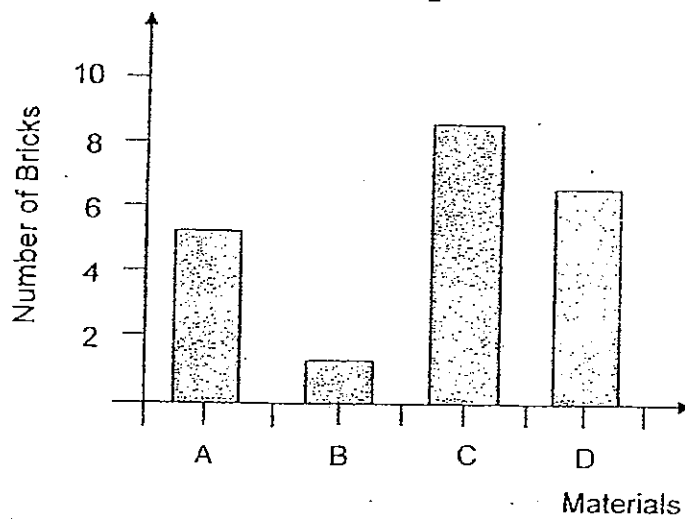
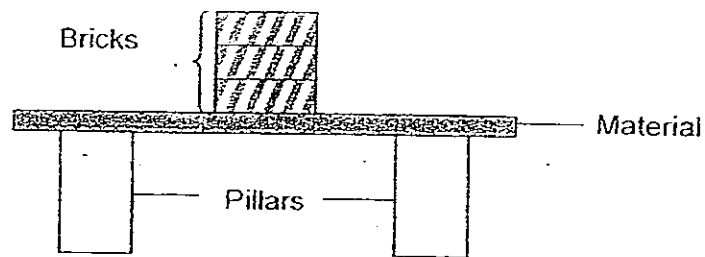
- (a) What should they measure to decide which type of material can absorb most water? [1]

- (b) Complete the sentences to show what Ivan and Sandy can conclude from this experiment. [1]

The container with the least amount of water in it would mean that its lining had absorbed the most water. Hence it would be _____



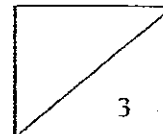
46. Annabelle carried out an experiment as shown in the diagram below. A piece of material was placed over two pillars. Bricks were stacked on the piece of material till it broke. The bar graph below shows the number of bricks it took to break each piece of material.



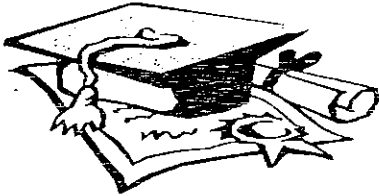
(a) What is the aim of the experiment? [1]

(b) Based on the graph, which material (A, B, C or D) is most likely to break when dropped ~~from~~^{from a} height? [1]

(c) Which material (A, B, C or D) would you use to make a cupboard? Explain why. [1]



End Of Paper



ANSWER SHEET

EXAM PAPER 2008

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA 1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	4	1	4	1	2	1	3	1	1	1	3	3	1	3	2	4

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
1	2	1	4	3	2	2	2	2	3	2	2	2

31)a)Penguin b)Monkey c)Leather
d)Paper e)shadow f)Fire

32)a)Robot was classified wrongly.
b)Plant.

33)a)It did not sleeping activity the longest time.
b)Responding to the environment.

34)a)Set-up K's caterpillar will still be alive after 2 weeks.
b)Living things need air, food and water.

35)a)It respond to the light.
b)They like dark and moist environment.

36)a)A: gill cover B: scales C: fin D: rail
b)It protects the fish.

37)a)The fly has a pair of wings but the lion does not.
b)cow.

38)a)P→Plants Q→Animals R→Fungi S→Micro-organisms

b)plants, chlorophyll, spores, gills

39)a)H, F, E, G

b)Poisonous or Non-poisonous.

40)A: Float

Cork

Rubber duck

B: sink

paper weight

41)a)To find out which material is able to absorb the most water.

b)Tissue paper—it can absorb the most water.

42)a)Metal→It is strong and durable.

b)Wood→It is hard.

43)a)Cloth because it is strong.

b)Diamond is harder than glass.

44)a)Test--- Try scratching the chalk with the material.

Observation---If it leaves scratch marks, it is harder than the chalk.

b)Test---Bend the material.

Observation--- If it can be bent without breaking it is flexible, otherwise, it is inflexible.

45)a)Check how much water is left in the beaker.

b)absorbent.

46)a)To find out which material is strongest.

b)B.

c)C because it is strong and durable.