

**Temasek Primary School**

**Semestral Assessment 1**

**Primary Three**

**2015**

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**SCIENCE  
(Booklet A)**

Name: \_\_\_\_\_

Class: Primary 3 \_\_\_\_\_

Date: 12 May 2015

Parent's Signature: \_\_\_\_\_

60 Marks

Total Time for Booklet A and B: 1h 45 min

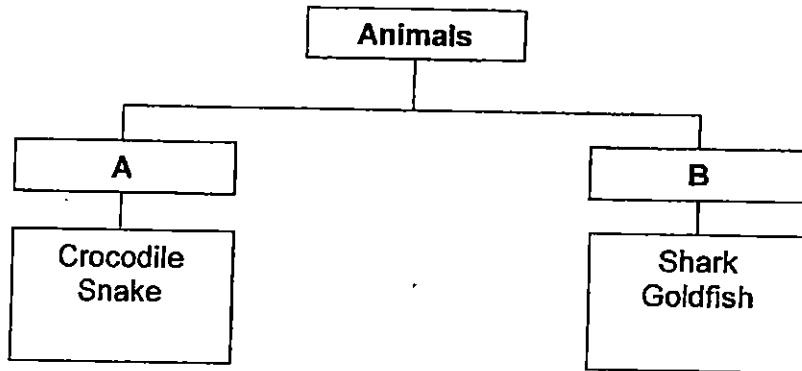
**INSTRUCTIONS TO CANDIDATES**

- 1. Do not open this booklet until you are told to do so.**
- 2. Follow all instructions carefully.**
- 3. Answer all questions.**
- 4. Shade your answers in the Optical Answer Sheet (OAS) provided.**

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

(60 marks)

- 1 The following animals have been classified under two groups.



Which of the following represent the correct headings for A and B?

	A	B
(1)	Animal-eater	Plant-eater
(2)	Have scales	Have hair
(3)	Reptiles	Fish
(4)	Lays eggs	Gives birth to their young alive

- 2 Which one of the following is not a response made by living things?

- (1) A baby cries when he is hungry.
- (2) The leaves of a tree sway in the wind.
- (3) A cat runs away when you go near to it.
- (4) A plant grows towards the sunlight.

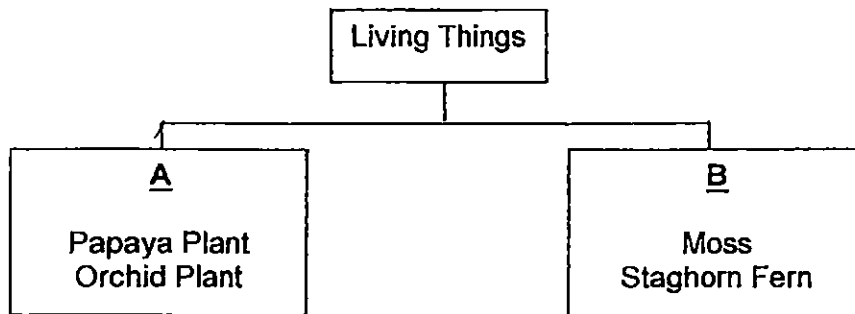
3 Jasmine describes an animal with the following statements.

- It lays eggs.
- It can live on land and in water.
- It breathes through its moist skin when it is underwater.

Which one of the following animals is being described?

- (1) Cockroach
- (2) Clownfish
- (3) Penguin
- (4) Salamander

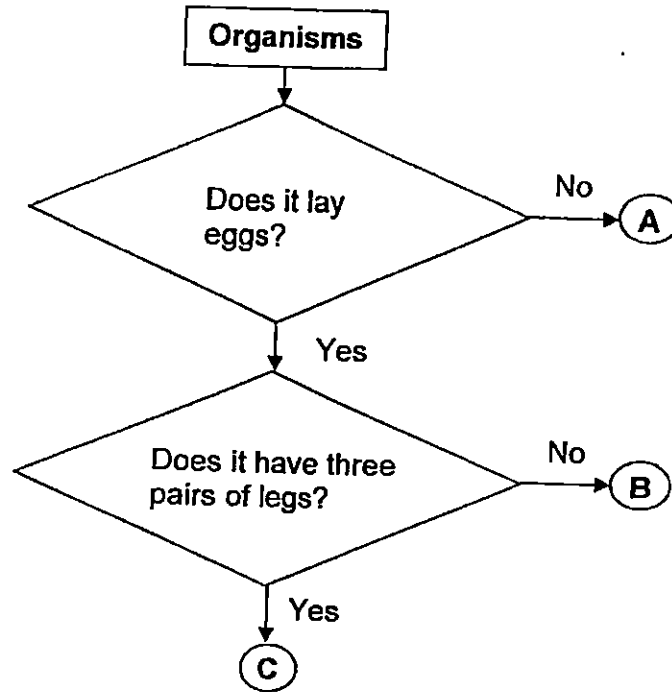
4 The classification chart below shows how some living things are classified.



Based on the classification chart above, which of the following represent the correct headings for A and B?

	A	B
(1)	Plants	Fungi
(2)	Plants	Microorganisms
(3)	Non-flowering Plants	Flowering Plants
(4)	Flowering Plants	Non-flowering Plants

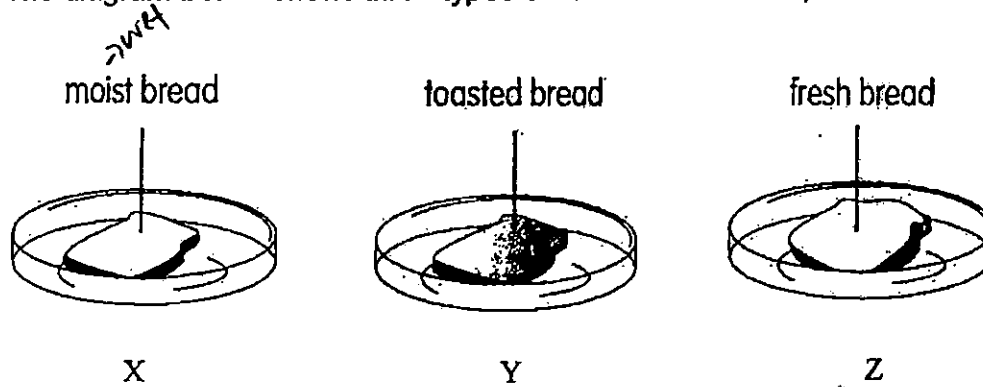
5 Study the flow chart below.



Which of the following animals is B most likely to be?

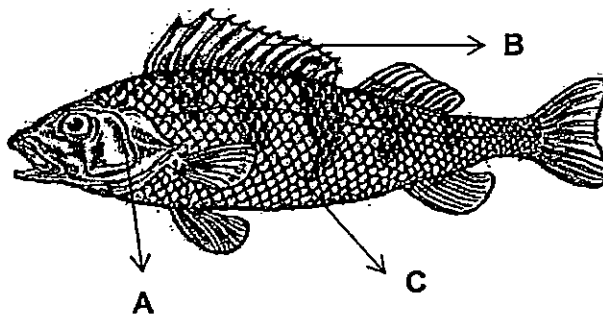
- (1) Spider
- (2) Beetle
- (3) Mosquito
- (4) Cockroach

- 6 The diagram below shows three types of bread on dishes X, Y and Z.



Arrange the dishes X, Y and Z in order, beginning with the dish in which bread mould would most likely appear first.

- (1) X, Y, Z  
 (2) Y, X, Z  
 (3) Z, X, Y  
 (4) X, Z, Y
- 7 Study the diagram below carefully.



Which of the following identifies the parts A, B and C correctly?

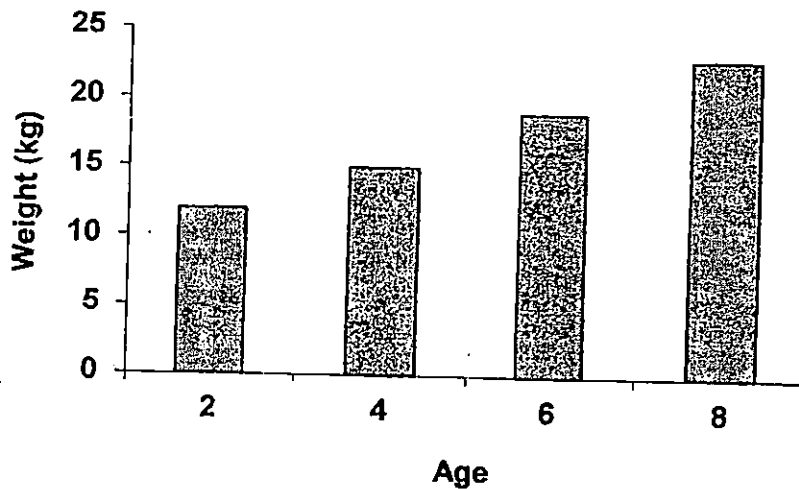
	A	B	C
(1)	Fin	Gill cover	Skin
(2)	Gill cover	Fin	Scales
(3)	Fin	Scales	Skin
(4)	Gill cover	Fin	Spots

8 Which of the following statements about bacteria are true?

- A. Bacteria can be found only on plants.
- B. Bacteria can make its own food.
- C. Bacteria are microorganisms.
- D. Bacteria respond to changes.

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

9 The bar graph below shows some information about Dylan.



What can you conclude from the information given in the bar graph?

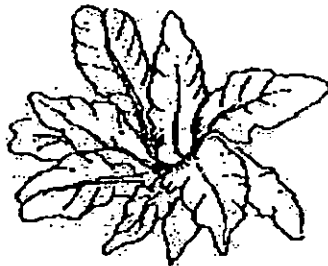
- (1) Living things grow.
- (2) Living things reproduce.
- (3) Living things respond to changes.
- (4) Living things needs air, food and water to survive.

10 Sarah saw Animal X in the garden. Which of the following should she do to find out if Animal X is an insect?

- A: Check if it flies.
- B: Check if it has wings.
- C: Count the number of legs.
- D: Count the number of body parts.

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

11 Which one of the following statements about a bird nest fern is true?



**Bird's Nest Fern**

- A. It makes its own food.
- B. It reproduces by seeds.
- C. It is a non-flowering plant.

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

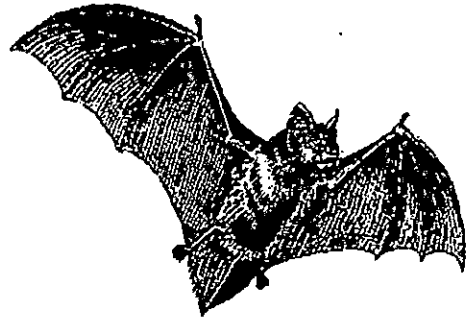
12 Which one of the following animals reproduces differently from the others?

(1)



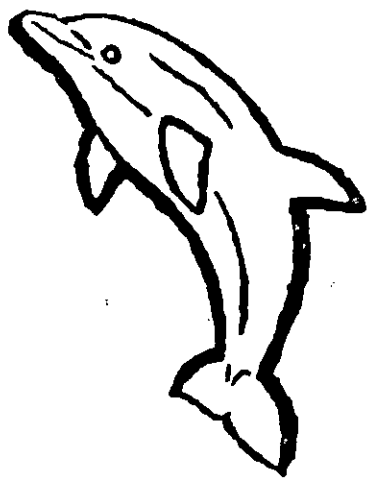
Seal

(2)



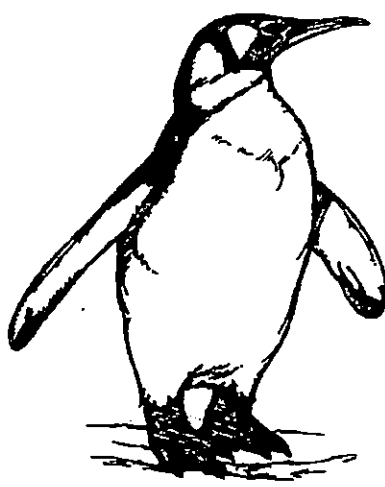
Bat

(3)



Dolphin

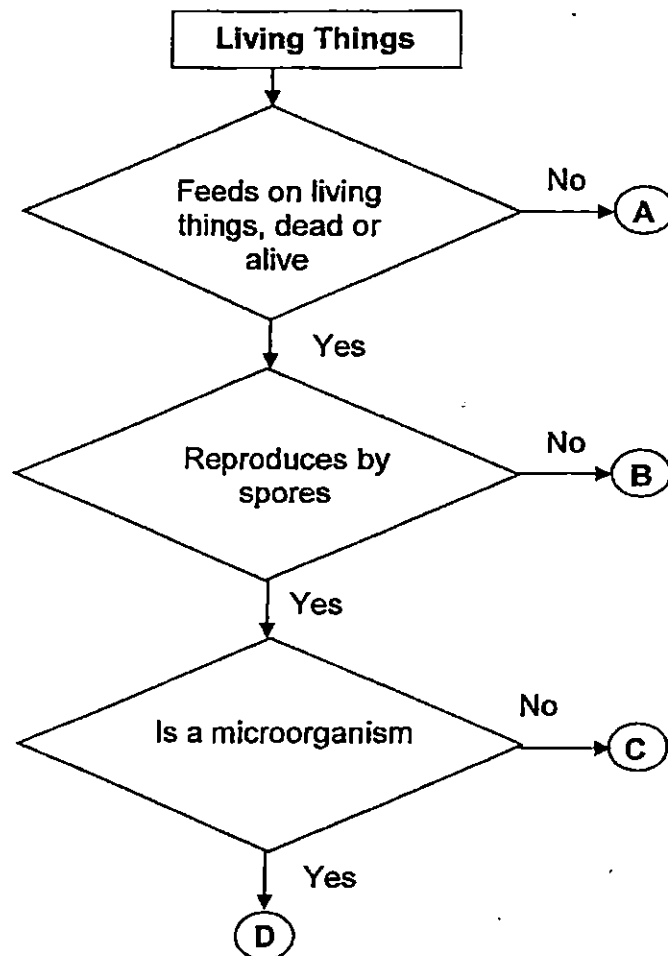
(4)



Penguin



13 Study the flow chart below.



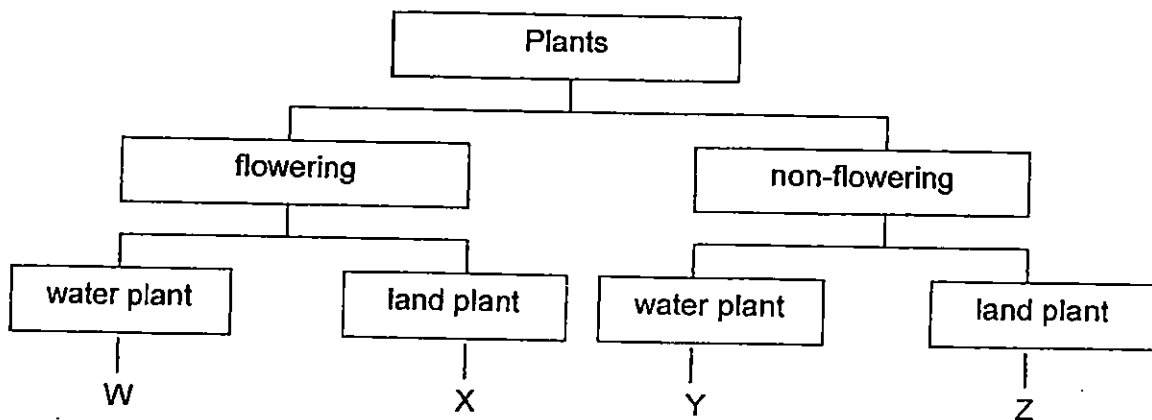
Which one of the following letters, A, B, C, or D, best represents the mushroom?

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

- 14 The following table shows some information on two plants, A and B.  
A tick (✓) indicates that the plant has the characteristic.

Observation	Plant A	Plant B
Has flowers		✓
Grows on land	✓	✓

Based on the information above, which letters, W, X, Y or Z best represents plant A and B?



	Plant A	Plant B
(1)	Z	W
(2)	Z	X
(3)	Y	W
(4)	Y	X

15 Which one of the following can be used to tell the difference between birds and insects?

- (1) Ability to fly
- (2) How they reproduce
- (3) Type of body covering
- (4) Whether they live on land or in water

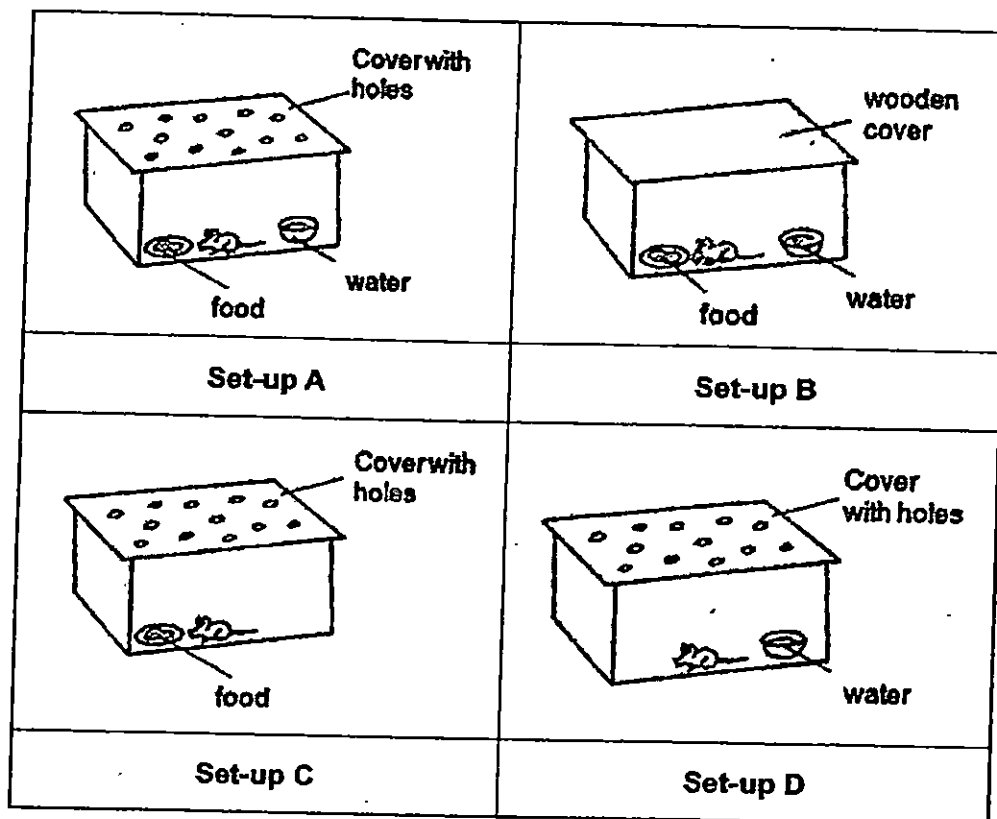
16 Study the characteristics of A, B, C and D below.

	<b>Able to move</b>	<b>Has legs</b>	<b>Has three body parts</b>	<b>Able to reproduce</b>
A	✓	✓		✓
B	✓	✓		
C	✓		✓	
D	✓	✓	✓	

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

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

17 Lena conducted an experiment with four set-ups as shown below.



She wanted to find out if the hamster needed air to stay alive. Which two set-ups should she use?

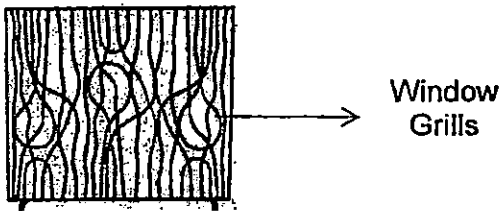
- (1) A and B
- (2) A and C
- (3) B and D
- (4) C and D

18 Which of the following statements are true about fungi?

- A: Fungi are living things.
- B: Fungi reproduce by spores.
- C: Fungi can make their own food.
- D: All fungi have a cap, gills and stalk.

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

19 Sandy is choosing window grills for her new house. What properties are important for her to consider when deciding on the material used to make the window grills?



- A: Strength
- B: Flexibility
- C: Waterproof
- D: Transparency

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

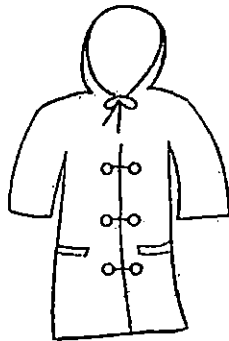
- 20 The table below shows the properties of three objects.

Properties	Object A	Object B	Object C
Bends easily		✓	
Absorbs water easily		✓	
Light cannot pass through it			✓
Breaks into pieces when dropped	✓		✓

Which of the following can these objects be?

	Object A	Object B	Object C
(1)	Plastic spoon	Cotton Shirt	Window Pane
(2)	Cotton Shirt	Ceramic cup	Plastic spoon
(3)	Window Pane	Paper plate	Cotton Shirt
(4)	Glass Bottle	Cotton Shirt	Ceramic cup

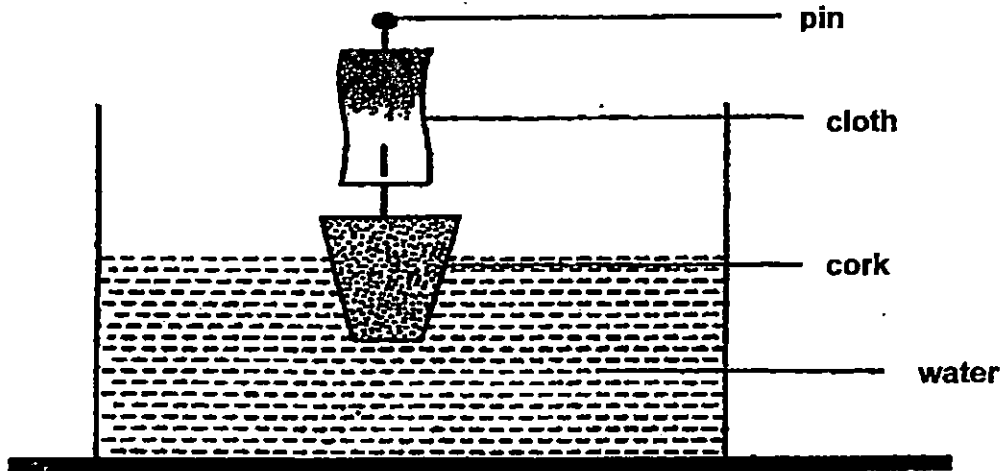
- 21 Look at the picture below.



What property should the material of the raincoat have?

- (1) It should float in water.
- (2) It should sink in water.
- (3) It should not absorb water.
- (4) It should allow light to pass through it.

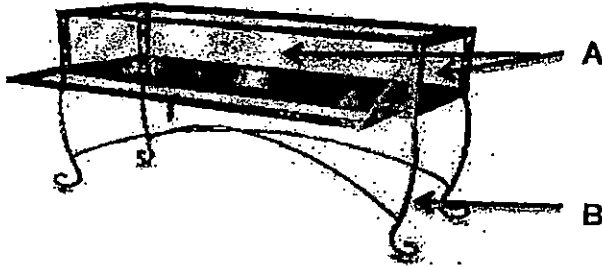
- 22 Timothy made a toy boat from a pin, a cork and a piece of cloth as shown below. He placed the toy in a basin of water. The toy moved when there was wind.



What properties of the materials used make it suitable for making the different parts of the toy boat?

	Cloth	Cork
(1)	Flexible	Able to float
(2)	Strong	Flexible
(3)	Waterproof	Able to float
(4)	Able to float	Waterproof

- 23 Mr Tan owns a shop selling watches. He bought the following case so that he could display his new watches to his customers.



Which of the following are parts A and B of Mr Tan's case most likely made of?

	A	B
(1)	Plastic	Paper
(2)	Glass	Cloth
(3)	Ceramic	Rubber
(4)	Glass	Metal

- 24 Janelle works for a sporting wear company. She wants to buy a material which would allow her to produce a T-shirt suitable for joggers in Singapore.

Material	Waterproof	Flexible	Light
A			✓
B	✓	✓	✓
C	✓	✓	
D		✓	✓

Which material should she use?

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

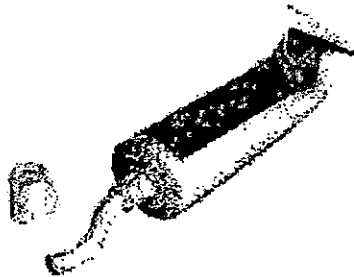


- 25 Katrina wanted to test the strength of four different kinds of plastic bags W, X, Y and Z. She put identical cans, one at a time, into each plastic bag until it begins to tear. She recorded her findings in the table as shown below.

	W	X	Y	Z
Number of cans the plastic bag could contain before it begins to tear.	8	14	11	10

If she needed to carry 12 cans, which plastic bag could she use?



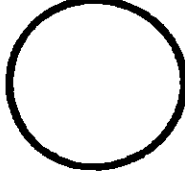

- (1) W
  - (2) X
  - (3) Y
  - (4) Z
- 26 The picture below shows a tube of toothpaste. The tube is made of Material X.



What property of Material X allows the toothpaste to be squeezed out?

- (1) Strong
- (2) Flexible
- (3) Waterproof
- (4) Transparent

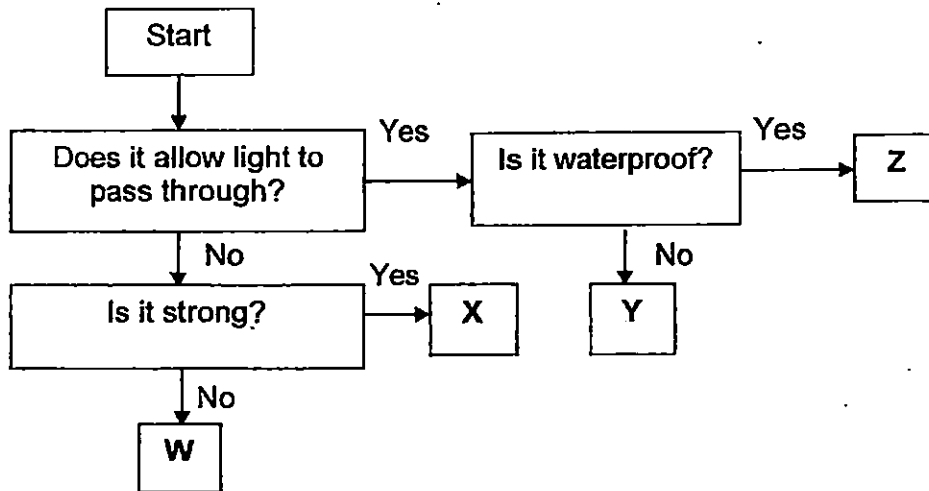
- 27 Clarissa conducted an experiment to test the ability of four different objects, to float or sink in water. She placed the following objects in a basin of water.

			
A marble	An eraser	A ping pong ball	A pair of metal chopsticks
A	B	C	D

Which one of the following **correctly** shows the results of the experiment?

	Float	Sink
(1)	B	A, C and D
(2)	C	A, B and D
(3)	B and C	A and D
(4)	C and D	A and B

28 The flow chart below shows the properties of some objects.



Which material, W, X, Y or Z is most likely to be used for making the screen of a handphone?

- (1) Material W
- (2) Material X
- (3) Material Y
- (4) Material Z

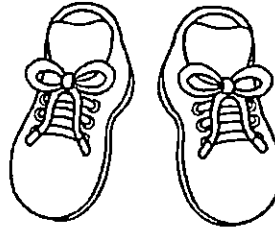
29 Which one of the following objects is likely to be made of **one material only**?

(1)



An umbrella

(2)



A pair of shoes

(3)



A balloon

(4)



A standing fan

30 Raymond needs to sort out some objects for recycling. Which one of the following is **correct**?

	Paper	Plastic	Glass
(1)	Magazines	Water basin	Jam jar
(2)	Pencil	Water basin	Books
(3)	Magazines	Biscuit tin	Pencil
(4)	Books	Jam jar	Magazines



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**Primary Three  
2015**

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**SCIENCE  
(Booklet B)**

Name: \_\_\_\_\_

Class: Primary 3 \_\_\_\_\_

Date: 12 May 2015

Parent's Signature: \_\_\_\_\_

40 Marks

Total Time for Booklet A and B: 1h 45 min

**INSTRUCTIONS TO CANDIDATES**

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

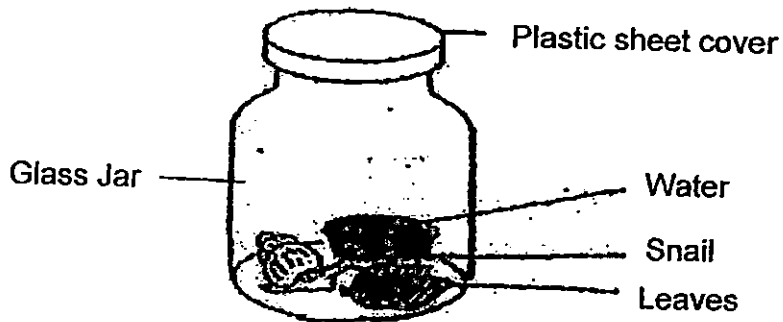
Paper	Marks	Scores
Booklet A	60	
Booklet B	40	
Total	100	

For questions 31 – 44, write your answers in his booklet.

The number of marks available is shown in the brackets [ ] at the end of each question of part question.

(40 marks)

- 31) Jason wanted to find out about the needs of living things. He set up the experiment as shown below.



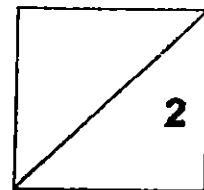
- a) A week later, the snail died. Give a reason why the snail did not survive. [1]

\_\_\_\_\_

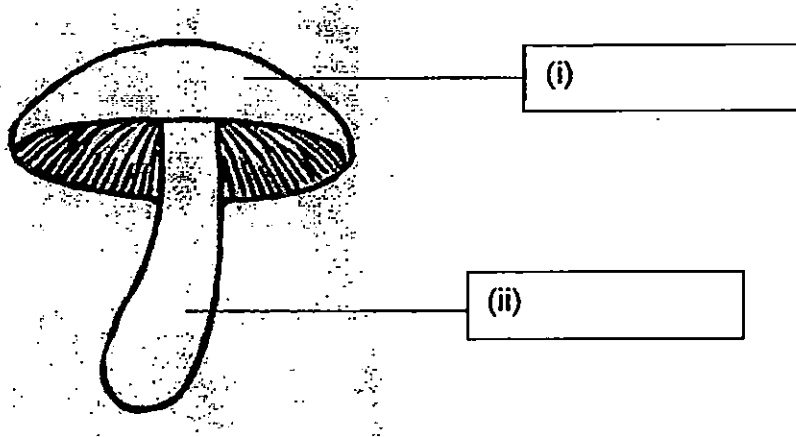
- b) Without removing anything, what else could Jason have done to the set up to make sure that the snail stays alive? [1]

\_\_\_\_\_

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32) Look at the drawing of a mushroom shown below.

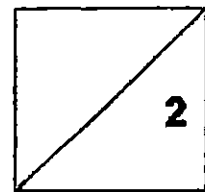


a) Identify (i) and (ii). [1]

b) Which group of living things does it belong to? [1]

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- 33) Celine needed to buy a pair of shoes for her daily walk in the park.



Glass shoes



Wooden shoes



Rubber shoes

- a) Which pair of shoes should she buy?

[1]

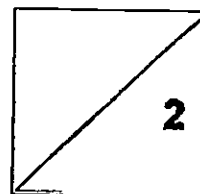
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- b) Give a reason for your choice.

[1]

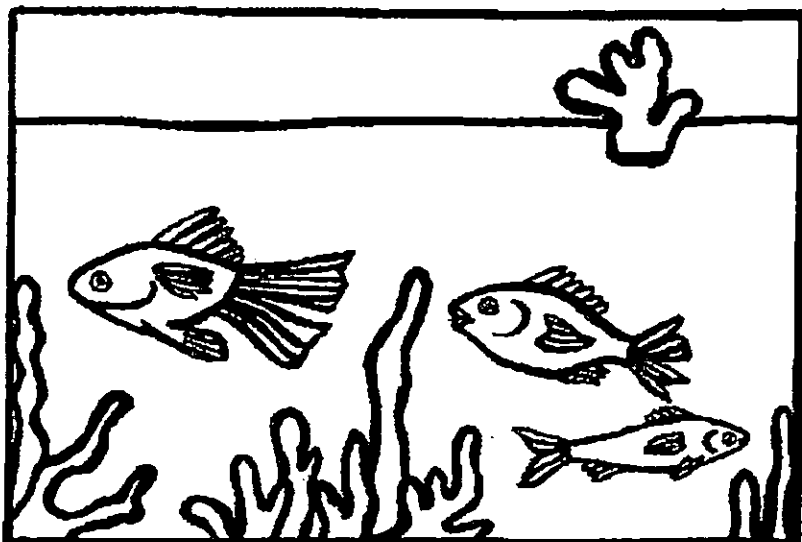
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- 34) Carrie has a fish tank made of glass as shown below.



- a) When Carrie knocked on the fish tank, the fish swam away. Which [1] characteristic of living things was the fish showing?

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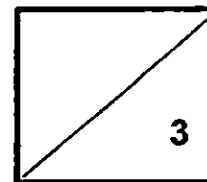
- b) A few months later, Carrie noticed that the fish in the tank were bigger. She [2] also saw some fish eggs at the bottom of the tank. What does this show about living things?

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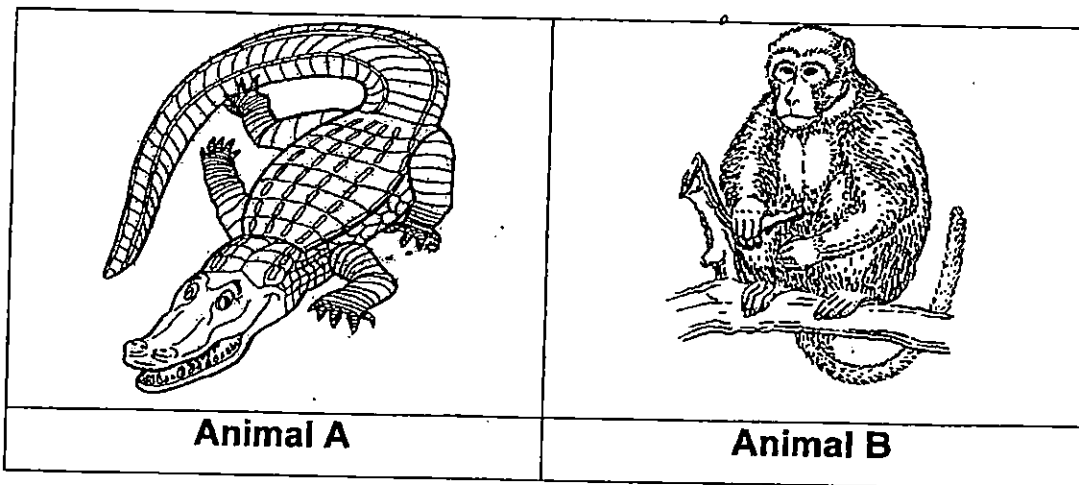


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35) Study the pictures below.



a) Based on the picture only, state one similarity between Animal A and Animal B. [1]  
*(do not compare size and colour)*

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b) Based on the picture only, state one difference between Animal A and Animal B. [1]  
*(do not compare size and colour)*

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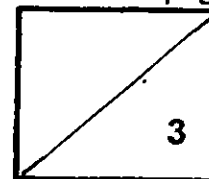


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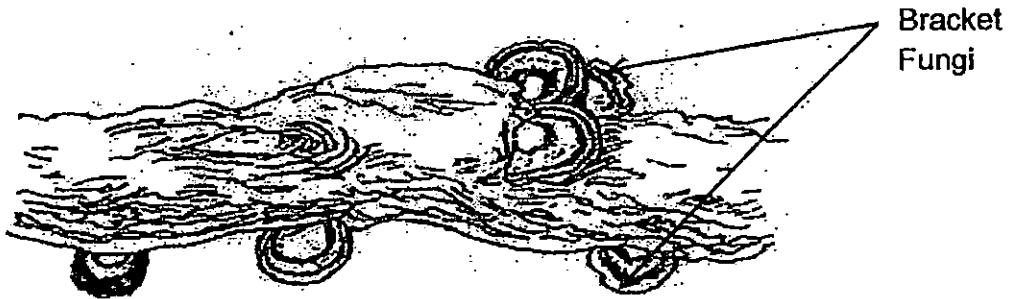
c) Which animal, A or B will you classify under the 'Reptile' group? [1]

Animal \_\_\_\_\_

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36) Tricia and Cally saw some bracket fungi on a dead log on the way home from school.



a) Cally told Tricia that bracket fungi are plants. Is she correct? Explain your answer. [2]

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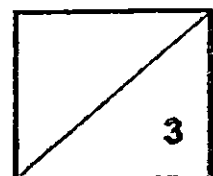
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b) Based on the diagram above, how do the bracket fungi obtain food? [1]

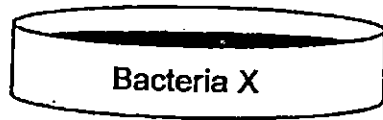
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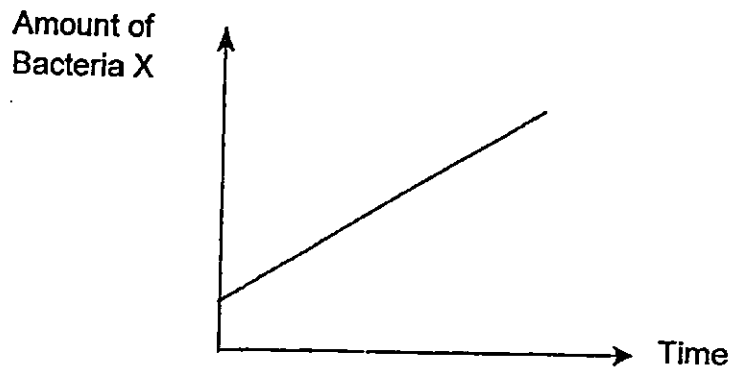
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- 37) A group of pupils wanted to observe the growth of Bacteria X.



The pupils observed Bacteria X closely under the microscope everyday for five days. The data was collected and shown on the graph below.



- a) Why is there an increase in the amount of Bacteria X over the five days? [1]

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- b) Is Bacteria X a living thing? Explain your answer. [1]

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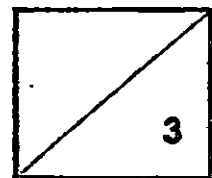
c) Is Bacteria X a microorganism? Explain your answer.

[1]

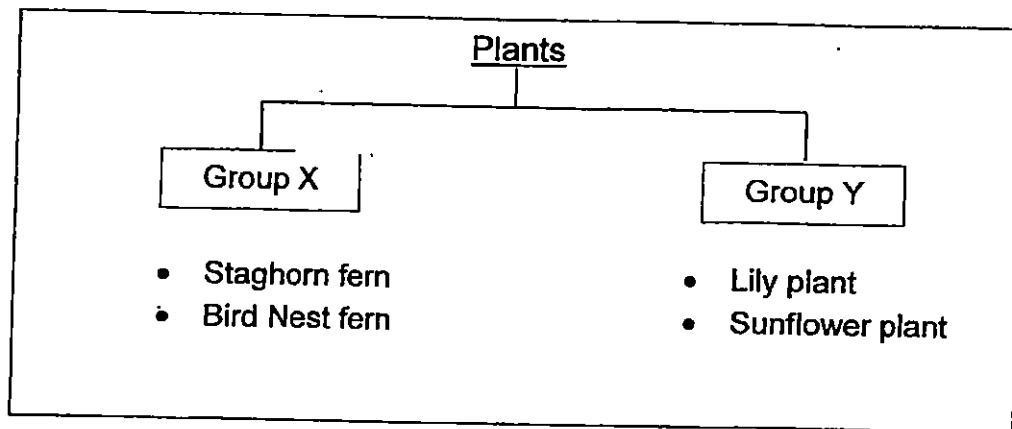
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- 38) The classification table below shows two different kinds of plants.



- a) Identify Group X and Group Y. [2]

Group X: \_\_\_\_\_

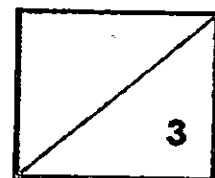
Group Y: \_\_\_\_\_

- b) State one difference in the way the two groups of plants reproduce. [1]

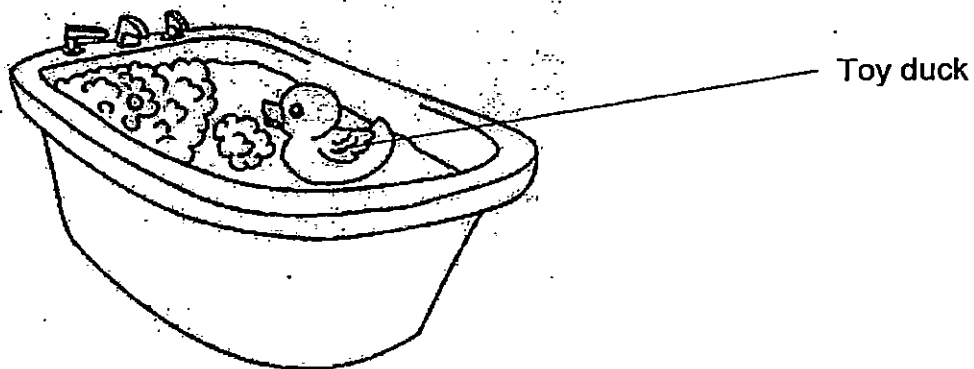
\_\_\_\_\_

\_\_\_\_\_

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- 39) The diagram below shows a toy duck made for children to play in the bathtub.



- a) What material would be suitable for making the toy duck? [1]

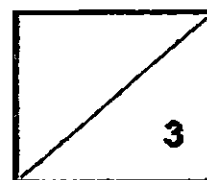
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- b) State two properties of your answer in (a) which make it suitable for making the toy duck. [2]

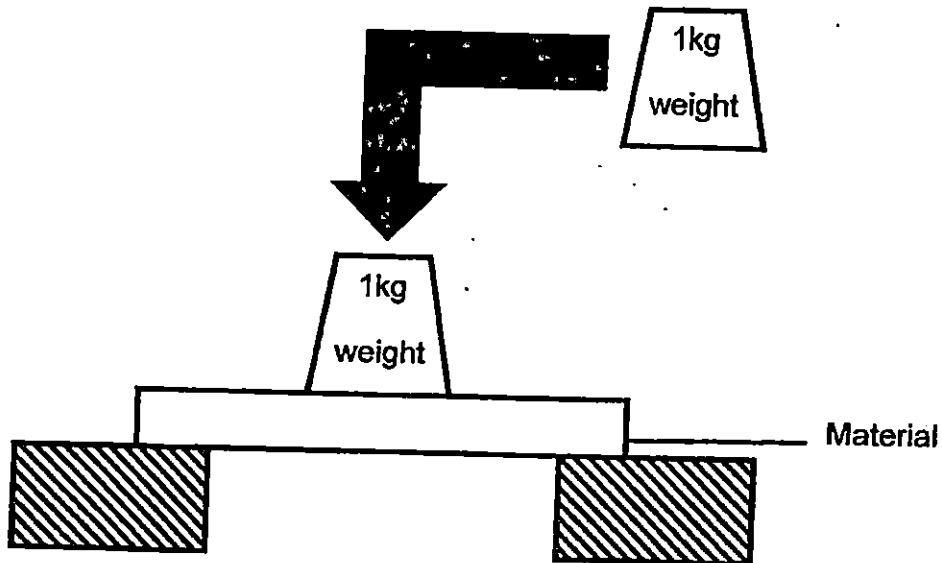
i) \_\_\_\_\_

ii) \_\_\_\_\_

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- 40) Charlotte set up the following experiment as shown below. The materials were of the same size and shape. She noted the number of 1 kg weights that were placed on top of each other before each of the materials broke.



She recorded her results in the table below.

Material	Number of 1 kg weights placed on top of each other before the material broke
A	7
B	1
C	12
D	5

- a) What property of material was Charlotte testing in this experiment?

[1]



b) Which Material, A, B, C or D should Charlotte choose to make a table? [1]

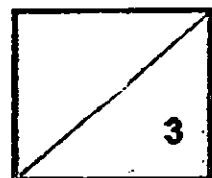
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c) Explain your answer in (b). [1]

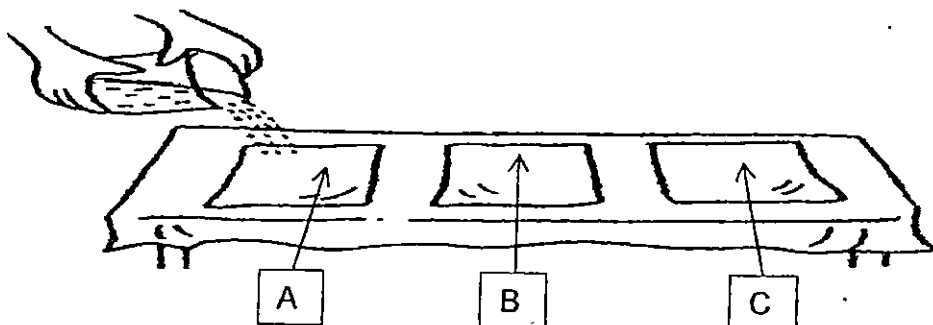
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- 41) Kelvin puts three pieces of materials A, B and C of the same shape and size on a dry table cloth. He pours 20 ml of water onto each piece of material as shown below.



Kelvin then records his observations as shown in the table below.

Material	Results
A	There is no water left on top of Material A. The table cloth under it remains dry.
B	There is no water left on top of Material B. The table cloth under it becomes wet.
C	Water is left on top of Material C. The table cloth under it remains dry.

- a) Based on the results of the experiment, which material is most suitable for the covering of an umbrella? [1]

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- b) Explain your choice in (a). [1]

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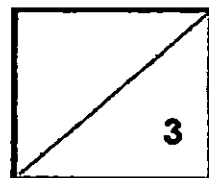
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c) Which material, A, B, or C is most suitable for making a towel?

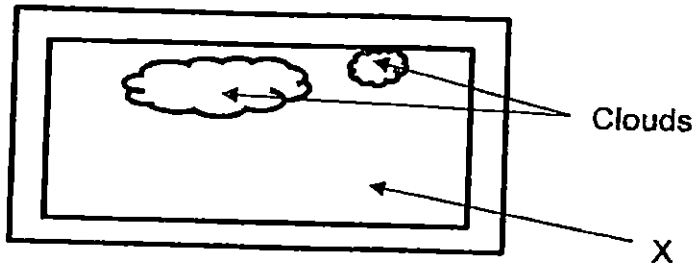
[1]

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42) Timothy has a window in his living room. He can see the sky from his window.



a) Which material is most suitable to make Part X of the window? [1]

Part X: \_\_\_\_\_

b) Explain why you would use that material for making Part X. [1]

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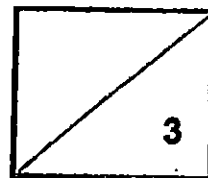


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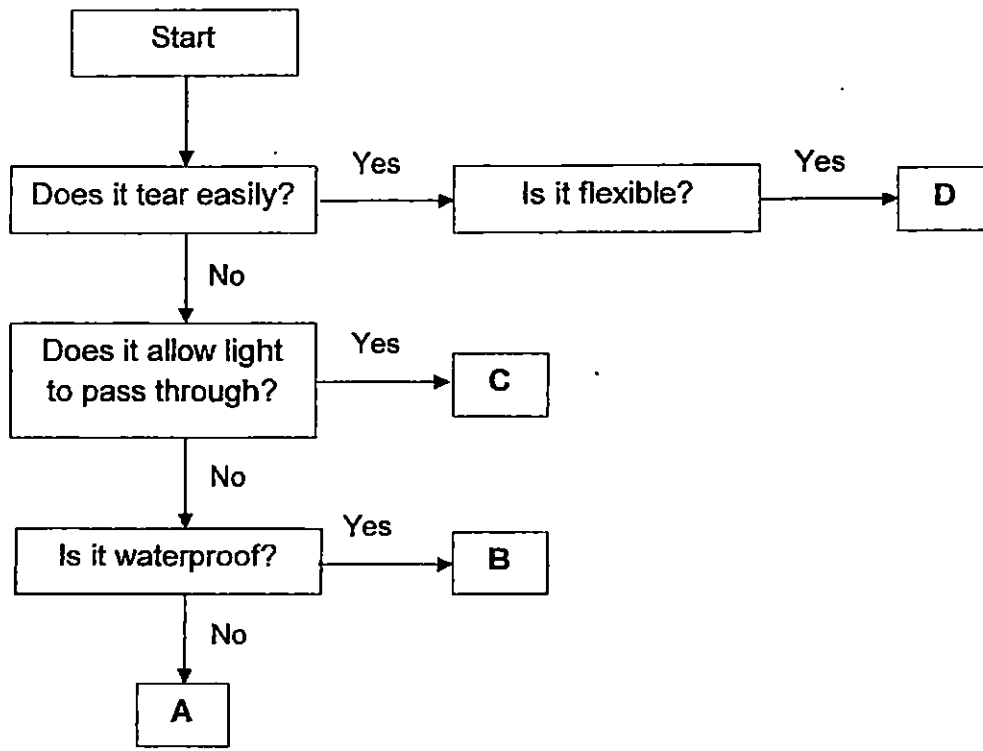
c) Timothy decides to install some metal window grills to prevent anyone from climbing in through the window. Explain why he would choose to use this material. [1]

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43) Study the flow chart below carefully.



a) What do objects A, B, C and D represent? Fill in the blanks with the words given below. [2]

Mirror      Paper plate      Black leather jacket      Window pane

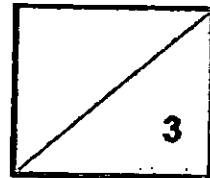
	Object
A	
B	
C	
D	

b) Which object, A,B,C or D would "rubber gloves" represent?

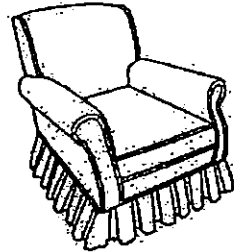
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[1]

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44) A furniture shop sells four kinds of chairs made of different materials as shown below.



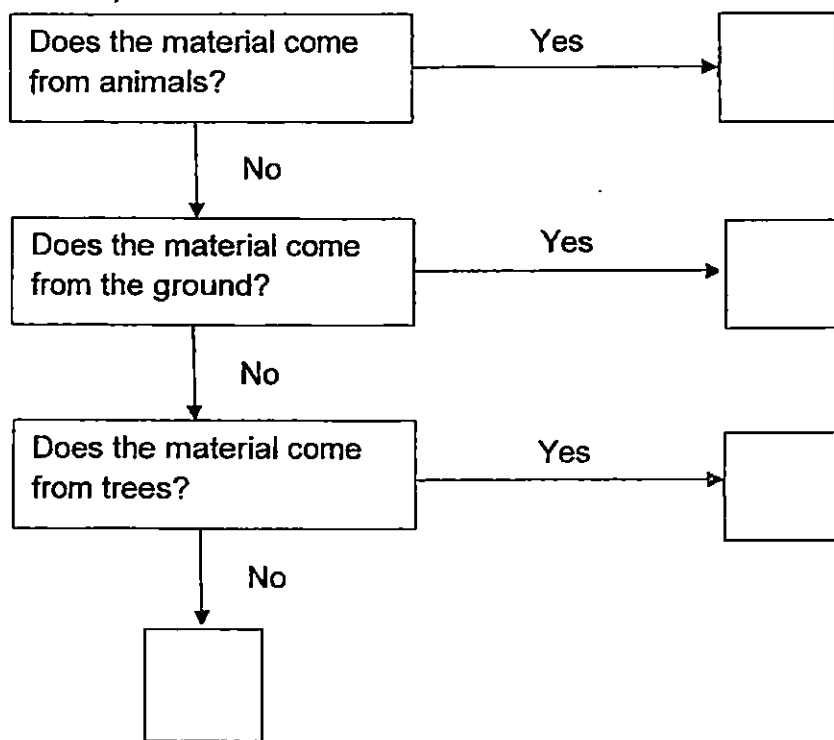
Wooden Chair  
(W)  
Mass: 1000g

Metal Chair  
(X)  
Mass: 1200g

Plastic Chair  
(Y)  
Mass: 400g

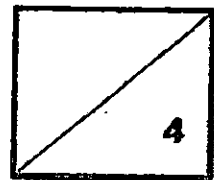
Silk Chair  
(Z)  
Mass: 800g

a) Complete the chart below with the information given in the diagram above. [2]  
Fill in the correct boxes with W, X, Y or Z.



- b) Tim wants to buy 10<sup>0</sup> chairs of the same material for a party he is having. He [1]  
lives on the 5<sup>th</sup> floor of a building where there are no lifts so he will have to  
carry the chairs up by himself. Which of the above chairs is Tim likely to buy?
- 

- c) State a property of the material for your choice in (b) [1]
- 



End of paper





**EXAM PAPER 2015**

**LEVEL : PRIMARY 3**

**SCHOOL : TEMASEK PRIMARY SCHOOL**

**SUBJECT : SCIENCE**

**TERM : SA1**

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10
3	2	4	4	1	4	2	3	1	3
Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Q 19	Q 20
2	4	3	2	3	1	1	2	2	4
Q 21	Q 22	Q 23	Q 24	Q 25	Q 26	Q 27	Q 28	Q 29	Q 30
3	1	4	4	2	2	2	4	3	1

Q31a. It did not have enough air.      Q31b. Poke some holes onto the plastic sheet cover.

Q32a. (i) cap (ii) stalk      Q32b. Fungi

Q33a. Rubber shoes      Q33b. It is flexibly

Q34a. It responds to changes.      Q34b. Living things can grow and reproduce.

Q35a. They both have tails.

Q35b. Animal A is covered with scales and Animal B is covered with fur or hair.

Q35c. Animal A.      Q36a. No. Bracket fungi feed on living things.

Q36b. It obtains from the dead log.

Q37a. It reproduces.      Q37b. Yes. It can reproduce.

Q37c. Y. All bacteria are microorganisms.

Q38a. Group X: Non flowering      Group Y: Flowering

Q38b. Group X reproduce by spores and group Y reproduce by seeds.

Q39a. Rubber      Q39b (i) It can float on water      Q39b (ii) It is also waterproof.

Q40a. It is strong.      Q40b. C      Q40c. It must not break easily.

Q41a. C      Q41b. It is waterproof.      Q41c. A

Q42a. Part X: Glass      Q42b. It is transport      Q42c. It is strong

Q43a. A: Black leather jacket      B: mirror

Q43a. C: Windowpane      D: Paper Plate      Q43b. B

Q44a. Z, X, W      Q44b. Y      Q44c. It is light

**THE END**

