



**NAN HUA PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1 – 2015  
PRIMARY 3**

**SCIENCE**

**BOOKLET A**

**24 Multiple Choice Questions (48 marks)**

**Total Time for Booklets A and B : 1 hour 30 minutes**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.

**Marks Obtained**

Booklet A		/ 48
Booklet B		/ 32
Total		/ 80

Name: \_\_\_\_\_ ( ) Class: P 3 \_\_\_\_\_

Date : 13 May 2015

Parent's signature: \_\_\_\_\_

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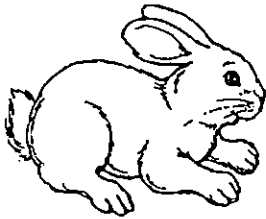
**Section A: (24 x 2marks = 48marks)**

For each question from 1 to 24, four options are given. Choose the best answer (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Which one of the following do all living things need to survive?

- (1) Air, water and food
- (2) Air, food and shelter
- (3) Water, food and energy
- (4) Food, shelter and sunlight

2. Felix has a pet rabbit and a money plant. What is the similarity between the pet rabbit and the money plant?



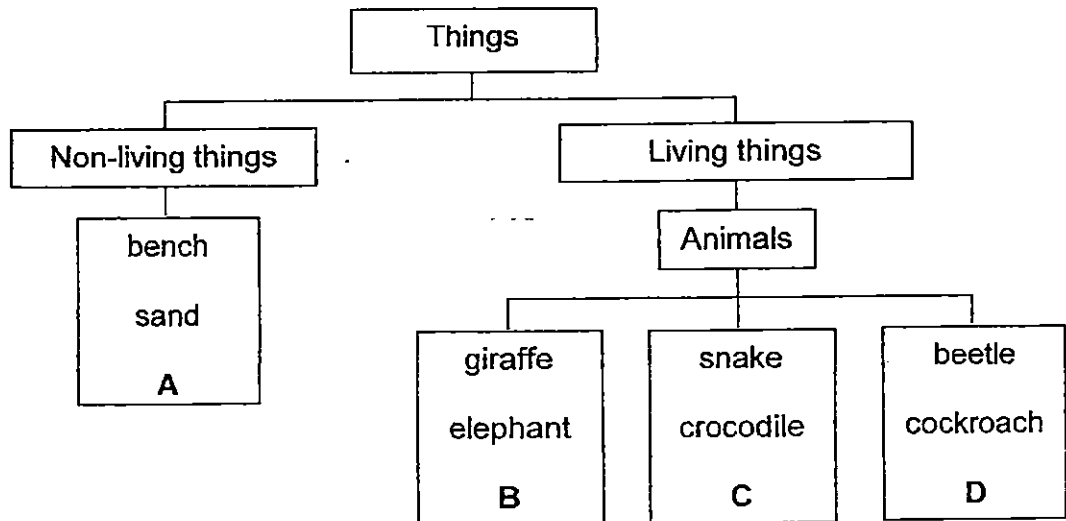
Rabbit



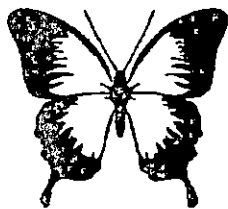
Money plant

- (1) Both cannot die.
- (2) Both cannot reproduce.
- (3) Both need sunlight to make food.
- (4) Both respond to changes around them.

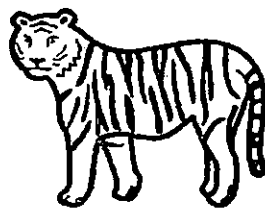
3. Sally had an outing to the Singapore Zoo and decided to group the things she saw into the classification chart below.



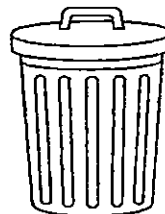
Her brother observed the following things during the outing as well.  
How can he group them into the classification chart above?



Butterfly



Tiger



Dustbin



Iguana

	Butterfly	Tiger	Dustbin	Iguana
(A)	A	B	D	C
(B)	B	D	C	A
(C)	D	C	B	A
(4)	D	B	A	C

4. Mary found the following things at her house.



doll



potted  
plant



bicycle



cat

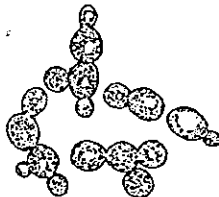
She described their characteristics in the table below.

	A	B	C	D
Can it grow?	Yes	No	Yes	No
Does it respond to changes?	Yes	No	Yes	No
Does it move from one place to another on its own?	No	No	Yes	No

Which of the following represents the cat?

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

5. Yeast and mushrooms are both examples of \_\_\_\_\_.



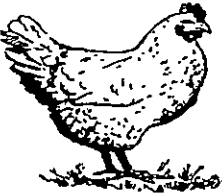

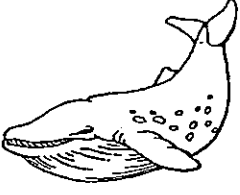

Yeast



Mushroom

- (1) fungi
- (2) microorganisms
- (3) non-living things
- (4) non-flowering plants

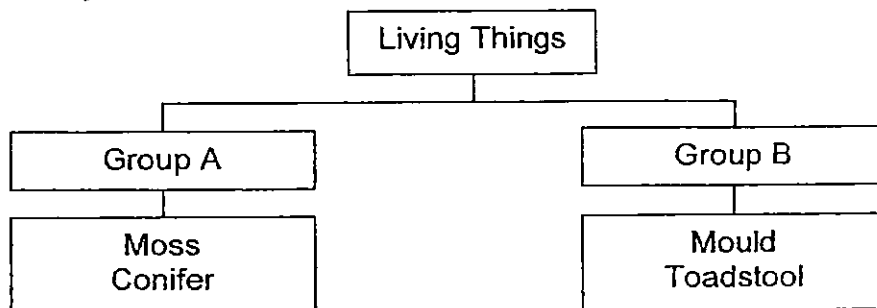
6. Study the pictures below.

Animals			
Bird	Amphibian	Fish	Insect
			
Chicken	Toad	Blue Whale	Bee

Which of the animal is grouped wrongly?

- (1) Bee
- (2) Toad
- (3) Chicken
- (4) Blue Whale

7. Study the classification table below.



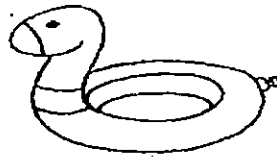
Based on the table, which are most suitable headings for Group A and Group B?

	Group A	Group B
(1)	Microorganisms	Non-flowering plants
(2)	Non-flowering plants	Microorganisms
(3)	Microorganisms	Fungi
(4)	Non-flowering plants	Fungi

8. Which of the following materials is **not** suitable for making a cup?

- (1) Wood
- (2) Metal
- (3) Fabric
- (4) Ceramics

9. The diagram below shows a float which is used for keeping people afloat during swimming.

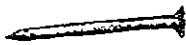


What material is the above float made of?

- (1) Glass
- (2) Metal
- (3) Cotton
- (4) Rubber

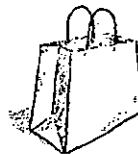
10. Which of the following objects is the strongest?

(1)



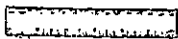
Iron nail

(2)



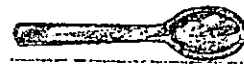
Paper bag

(3)



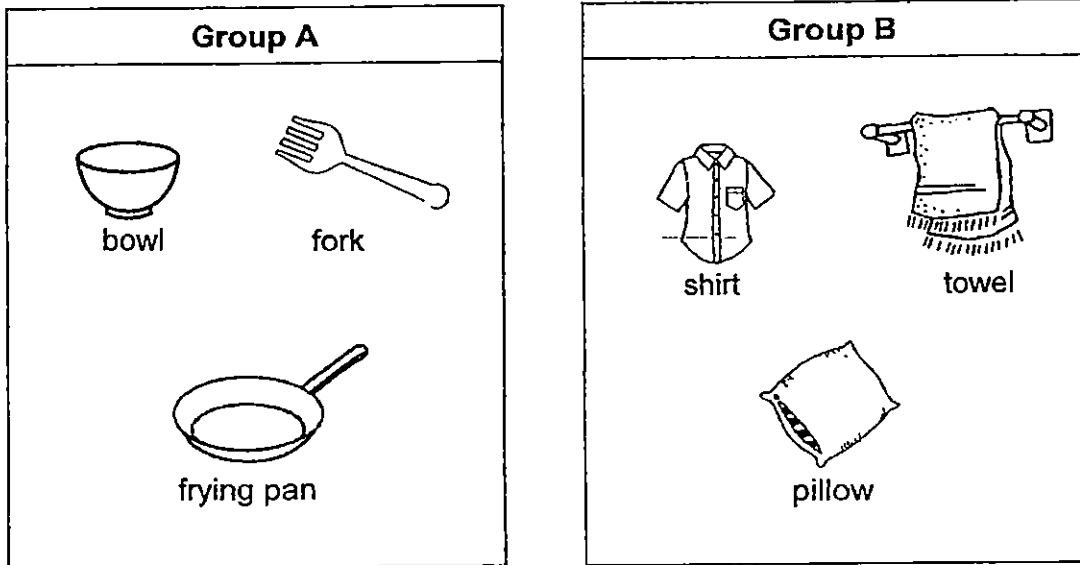
Plastic ruler

(4)



Wooden spoon

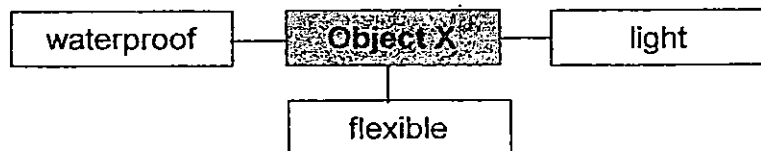
11. Study the two groups below carefully.



Which of the following is a suitable heading for the two groups of things above?

	Group A	Group B
(1)	Transparent	Not transparent
(2)	Waterproof	Not waterproof
(3)	Can float on water	Cannot float on water
(4)	Come from animals	Come from plants

12. Some properties of Object X are shown in the diagram below.



What can Object X be?

- (1) Key
- (2) Book
- (3) Blanket
- (4) Raincoat

13. Pupils A, B, C and D made the following statements during a discussion about the characteristics of living things.

Pupil A Fungi is an example of a living thing.

Pupil B The flag is a living thing because it responds to the wind.

Pupil C Living things will eventually die.

Pupil D All living things can move from place to place.

Which of the above pupils are correct?

- (1) A and C only
  - (2) A and D only
  - (3) B and C only
  - (4) B and D only
14. Tom drew a table to show the change in his height for five consecutive years. Study the table below.

Age (years)	Height (cm)
9	138
10	143
11	149
12	152
13	161

What can you conclude about the characteristics of living things from the table above?

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

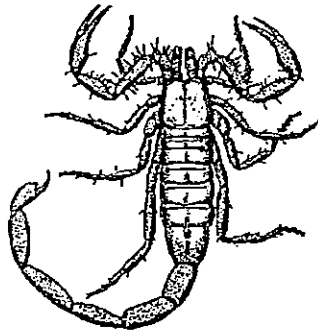


15. The table below shows characteristics of Plants A, B, C and D.

Characteristic	A	B	C	D
Bear fruits		✓	✓	
Grow on land			✓	✓
Reproduce from spores	✓			
Have roots, stems and leaves	✓	✓	✓	✓

Which of the following are non-flowering plant(s)?

- (1) A only
  - (2) A and D only
  - (3) C and D only
  - (4) B, C and D only
16. Alex saw Animal X as he was walking in the garden. His friend suggested the following ways to conclude if the animal is an insect.



Animal X

- A Count the number of legs.
- B Check to see if it has wings.
- C Check to see if it has feelers
- D Count the number of body parts.

Which of the above suggestion(s) should Alex use to check if Animal X is an insect?

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




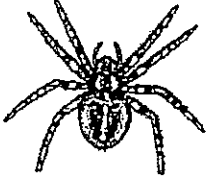


17. Animal Y flew into Siti's living room. Siti observed the animal and wrote down her observations below.

It has two legs.  
 It has hair as an outer covering.  
 It has a pair of wings.

Which of the following groups of animals does Animal Y belong to?

- (1) Birds
- (2) Reptiles
- (3) Mammals
- (4) Amphibians

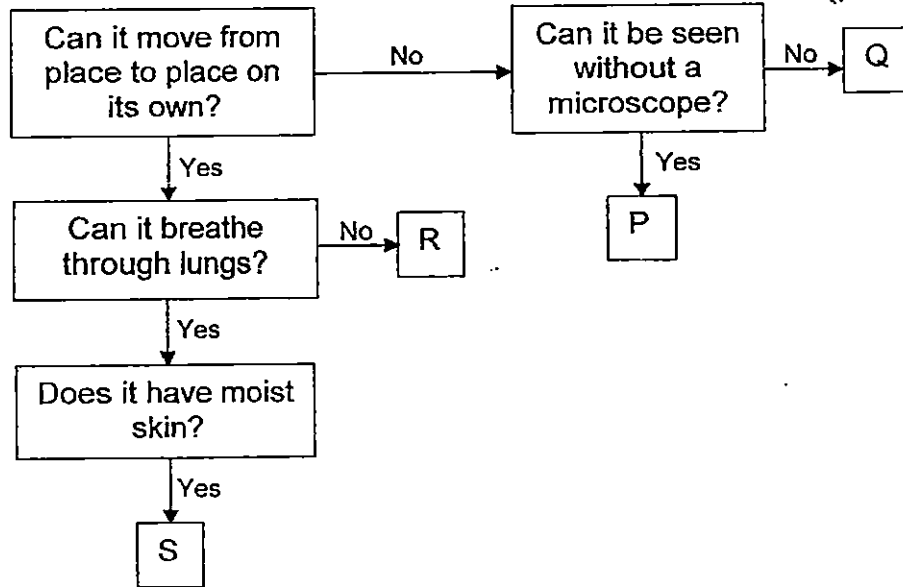
18. Study the table below.

Group C	Group D
 Penguin	 Housefly
 Parrot	 Spider
 Ostrich	 Mosquito

Which of the following is a suitable heading for Group C and Group D?

(1) Group C	Group D
Birds	Insects
Covered with feathers	Not covered with feathers
Can fly	Cannot fly
Lay eggs	Give birth to young

19. Study the flowchart below.



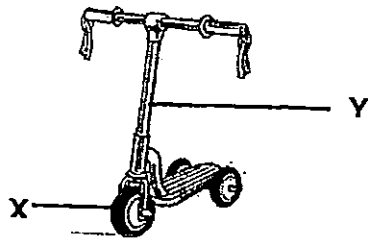
What living things are P, Q, R and S likely to be?

	P	Q	R	S
(1)	Mushroom	Bacteria	Swordfish	Cockroach
(2)	Bacteria	Bread mould	Parrot	Lizard
(3)	Yeast	Bacteria	Dragonfly	Goldfish
(4)	Money plant	Yeast	Ant	Frog

20. Which of the following groups of materials are used in building houses and bridges?

- (1) cloth, glass and wood
- (2) metal, glass and cloth
- (3) metal, stones and wood
- (4) wood, paper and stones

21. The diagram below shows a skate scooter.



What materials could part X and Y be made of?

	X	Y
(1)	Glass	Wood
(2)	Ceramics	Paper
(3)	Rubber	Fabric
(4)	Plastic	Metal

22. David collected the four objects as shown below.



Coin



Pencil

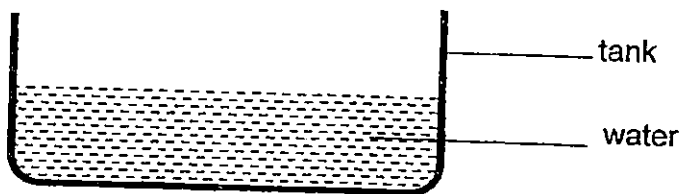


Paper clip



Handkerchief

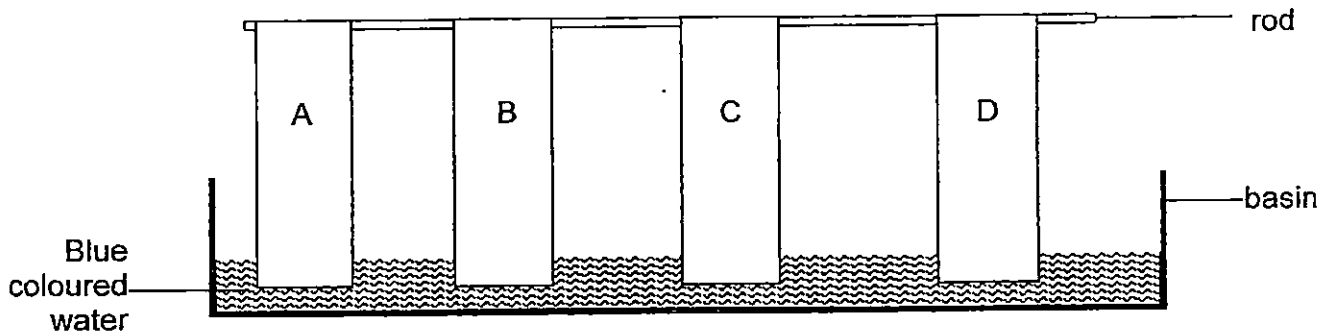
He wanted to find out if each of the objects will sink or float. He dropped each of the objects into a tank of water and observe the objects for five minutes.



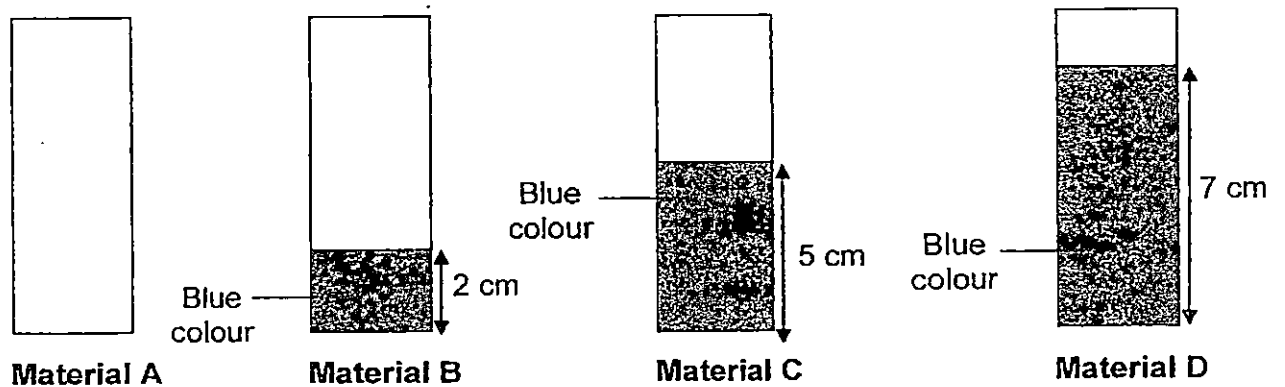
What will David observe after five minutes?

	Coin	Pencil	Paper clip	Handkerchief
(1)	float	sink	sink	float
(2)	float	float	float	float
(3)	sink	float	sink	sink
(4)	sink	float	sink	float

23. Kelly wanted to test if Materials A, B, C and D is waterproof. She set up the experiment as shown below.



Kelly hung Materials A, B, C and D on a rod and then she lowered the materials (A, B, C and D) into a basin of blue coloured water. She waited for one minute and then measured the length that the blue coloured water has moved up the paper. Her results are shown below.



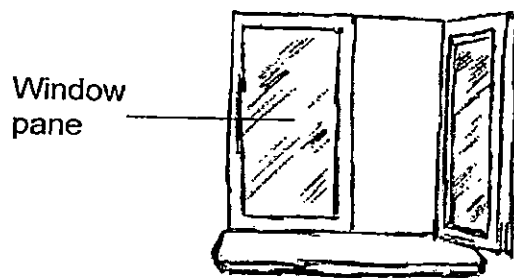
Which of the four materials, A, B, C or D, is waterproof?

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

24. The table below shows some properties of Materials W, X, Y and Z. A tick (✓) indicates that the material has that property.

	W	X	Y	Z
It is waterproof.	✓		✓	
It is transparent.			✓	✓
It can bend easily.	✓	✓		✓

Which material (W, X, Y and Z) is the most suitable for making a window pane?



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



NAN HUA PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1 – 2015  
PRIMARY 3

SCIENCE

BOOKLET B

10 Open-ended questions (32 marks)

Total Time for Booklets A and B : 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section B

	/ 32
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Name: \_\_\_\_\_ ( ' ) Class: P 3 \_\_\_\_\_

Date : 13 May 2015

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

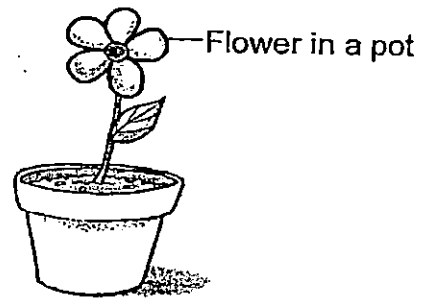
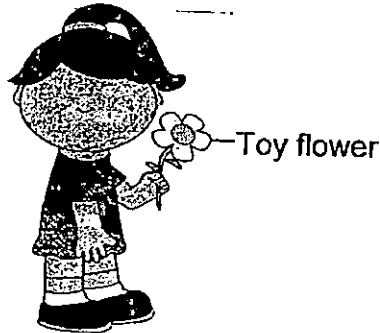
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**Section B: (32 marks)**

Write your answers to questions 25 to 34 in the space provided.

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

25. Sharon received a toy flower from her friend. She placed the toy flower next to a flower in the pot that her mother has planted in their garden.



After a few weeks, she noticed that the flower in the pot has died but the toy flower remained the same.

- a. State the characteristic of living things that explains the above. [1]

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- b. List two other characteristics of living things. [2]

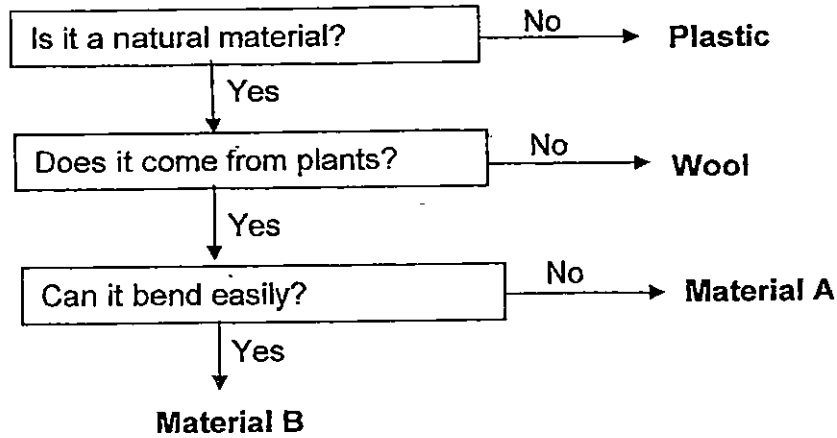
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Score	3
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26. Study the flowchart shown below.



a. What could Material A and Material B be?

Material A : \_\_\_\_\_ [1]

Material B : \_\_\_\_\_ [1]

b. Li Jie classified some objects according to their flexibility as shown in the table below.

Can bend easily	Cannot bend easily
Tissue paper	Whiteboard marker
Wooden ruler	Lamp
Rubber band	Stapler


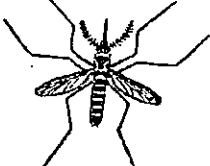






Li Jie's teacher told him that he has classified one of the objects wrongly. Which object has been classified wrongly? Explain your answer. [1]

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27. Chris found picture cards of some animals and classified them into two groups as shown below.

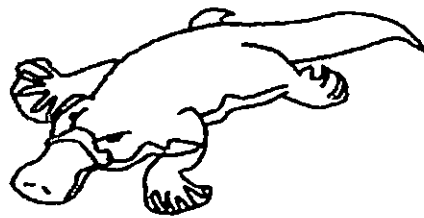
Group C		Group D	
 Eagle	 Mosquito	 Horse	 Guppy
 Frog	 Snake	 Kangaroo	 Dog

- a. Write a suitable heading for Group C and D. [2]

Group C: \_\_\_\_\_

Group D: \_\_\_\_\_

- b. Chris found another picture card below.

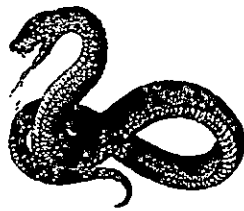


platypus

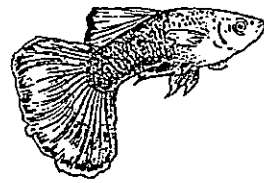
- Which of the above groups does the platypus belong to? [1]

\_\_\_\_\_

Score	3
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Snake



Guppy

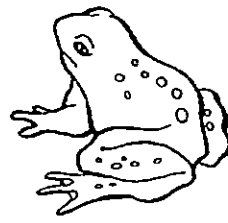
- c. Based on the picture above, state one similarity between the snake and the guppy. (Do not compare their shape, size, colour and pattern) [1]

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Eagle



Frog

- d. Based on the picture above, state one difference between the eagle and the frog. (Do not mention shape, size, colour and pattern) [1]

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Score	2
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28. Study the diagram of a pair of sunglasses below.



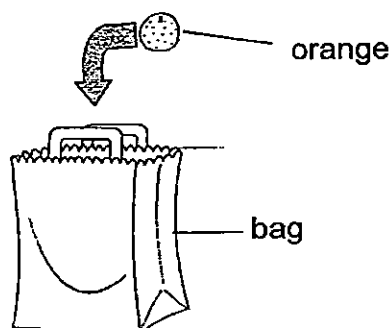
Name the materials used to make Part A and B.

A : \_\_\_\_\_ [1]

B : \_\_\_\_\_ [1]

Score	2
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29. Kimmy wanted to find a suitable material to make a shopping bag for her mother. She used two materials (S and T) to make a simple bag and added oranges into each bag until the bag breaks. She then recorded the number of oranges used for each bag.



The results of her experiment are shown below.

	Number of oranges in the bag when the bag broke
S	2
T	10

- a. Which material (S or T) should Kimmy use to make a durable shopping bag for her mother? Explain your answer. [1]

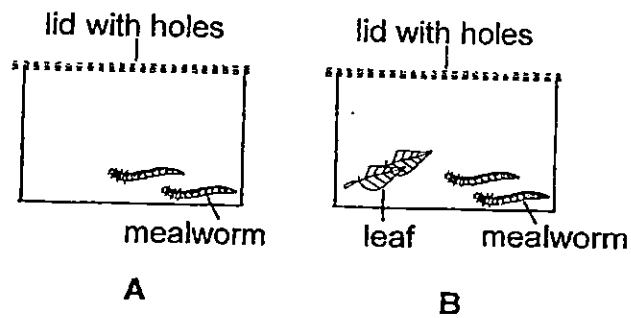
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- b. Kimmy's mother wants to use the bag when she goes to the supermarket to buy fish. What other property must the shopping bag have so that Kimmy's mother can use it to buy fish and other seafood? [1]

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30. Daniel wanted to conduct an experiment and prepared Set-ups A and B as shown below.



a. What was Daniel trying to find out? [1]

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b. What would Daniel observe in the two set-ups after two weeks? [2]

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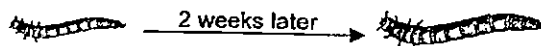


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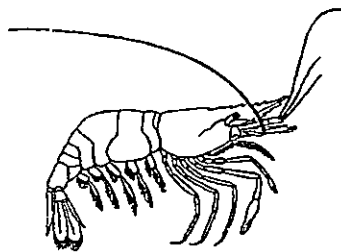
c. Daniel also observed that some of the mealworms increased in size after two weeks as shown below.



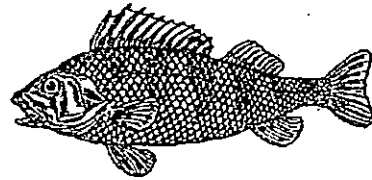
What characteristic of living things is the mealworm displaying? [1]

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31. Joanna went to an aquarium and saw two animals as shown in the diagrams below. She told her father that they belong in the same animal group as they both live in the sea.



Animal X



Animal Y

a. Based on the diagrams above, state two differences between Animal X and Animal Y.

(Do not mention shape, size, colour and pattern)

[2]

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

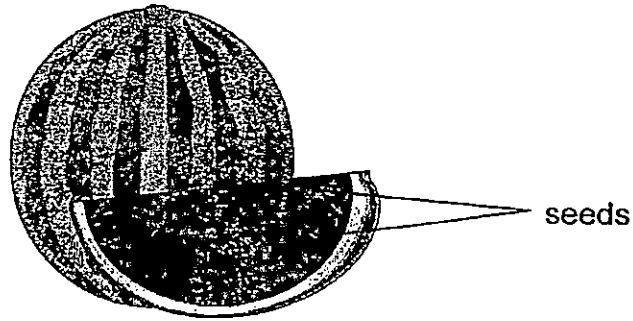
(ii) \_\_\_\_\_  
\_\_\_\_\_

b. Which part of Animal Y helps it to move in water?

[1]

\_\_\_\_\_  
\_\_\_\_\_

32. Devi was in the kitchen when she saw a sliced watermelon as shown in the diagram below.



- a. Her mother told her that the watermelon comes from a plant.
- i. Which part of the plant is the watermelon? [1]

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- ii. Do all plants have the above plant part? Explain your answer. [1]

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Devi decided to eat a slice of the watermelon without washing her hands. A few days later, she fell sick.

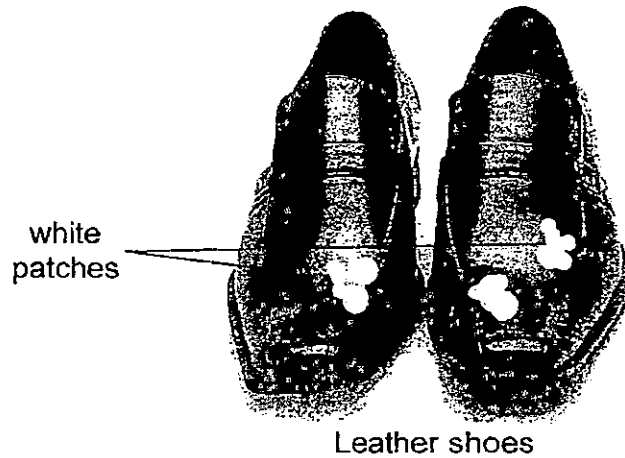
- b. What living thing could have caused Devi to fall sick? [1]

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33. Peter wore his black leather shoes out on a rainy day. As soon as he reached home, he placed the wet shoes into a shoe box.

A few days later, he decided to take the shoes out of the shoe box. He discovered white patches on the surface of his shoes as shown in the diagram below.



- a. What are the white patches? Explain why they are found on the shoes [2]

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- b. What should Peter have done to prevent the white patches from developing on his leather shoes? [1]

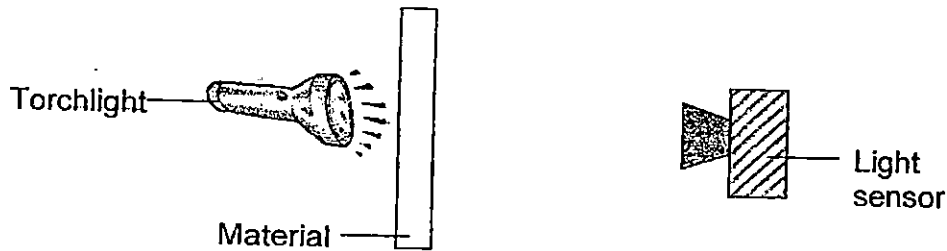
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- c. Name two other living things that can be classified in the same group as the "white patches". [1]

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34. Mr Yeo finds that some of the classrooms in the school are too bright in the afternoon. He wants to make some curtains for the classroom windows so that when the projector is being used, the students can see the projection clearly. He found two materials (X and Y). He did a test on them using a light sensor as shown below.



Mr Yeo tested each of the materials by shining 12 units of light on the material and then used a light sensor to see how much light passed through the material. The results of his test are shown in the table below.

	Amount of light passing through
<b>Material X</b>	10 units
<b>Material Y</b>	3 units

- a. Which material should Mr Yeo choose to make the curtain for the classroom? Explain your answer. [1]

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- b. Mr Yeo used the same test above to test three materials he wants to use for making new toilet doors in the school toilets. His results are shown in the table below.

	Amount of light passing through
<b>Material A</b>	5 units
<b>Material B</b>	0 units
<b>Material C</b>	11 units

- Which material is suitable for the toilet door? Explain your answer. [2]

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~ End of paper ~



## EXAM PAPER 2015

LEVEL : PRIMARY 3

SCHOOL : NAN HUA 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
1	4	4	3	1	4	4	3	4	1
Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Q 19	Q 20
2	4	1	2	2	2	3	2	4	3
Q21	Q22	Q23	Q24						
4	3	1	3						

Q25a. Living things can die

Q25b. (i) Living things need air, food and water.

Q25b (ii) Living things are able to grow.

Q26a. Material A: Wood Material B: Rubber

Q26b. The wooden ruler is classified wrongly because the wooden ruler is made of wood and wood cannot be bend easily.

Q27a. Group C: Lay eggs Group D: Does not lay eggs.

Q27b. Playtpus belongs to group C.

Q27c. The snake and guppy have scales as outer covering.

Q27d. The eagle has feathers as outer covering but frog has moist skin.

Q28a. A: Made of Plastic B: Made of Plastic

Q29a. Kimmy should use Material T because Material T can hold more oranges than material S.

Q29b. The bag must be waterproof.

Q30a. Daniel was trying to find out if mealworms need food to survive.

Q30b. The mealworm in set up B will survive whereas the mealworms in set up A will be dead.

Q30c. Living things can grow.

Q31a (i) Animal Y has scales as outer coverings but Animal X don't.

Q31a (ii) Animal Y has fins but Animal X don't.

Q31b. The fins of Animal Y help it to move in water.

Q31b. The fins of Animal Y help it to move in water.

Q32a (i) The fruit.      Q32a (ii) No, only flowering plants bear fruits.

Q32b. The bacteria on Devi's hands make her fall sick.

Q33a. Mould / Mildew. Peter kept the shoes into the shoe box while it was still in condition and grows well in moist.

Q33b. Peter should have dried the leather shoes not in a dark place.

Q33c. Yeast / Mushroom / Toadstool / Bracket fungi / puffball

Q34a. Mr Yeo should use material Y because lesser light passes through.

Q34b. Material B. It is not transparent so no one can see through it.

**THE END**