



Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2014  
SCIENCE  
PRIMARY THREE  
(BOOKLET A)

Name: \_\_\_\_\_ (     )

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

Date: 8 May 2014

Duration of paper: 1 h 15 min

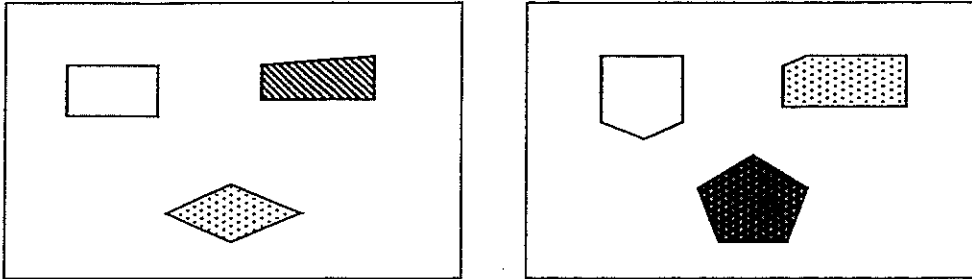
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**INSTRUCTION TO CANDIDATES**

1. This question paper consists of **9** printed pages including this cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answer on the Optical Answer Sheet (OAS) provided.

For each of the following questions from 1 to 15, 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. [30 marks]

- 1 Study the objects below carefully. They have been put into two groups.



The above objects are grouped according to their \_\_\_\_\_.

- (1) shape only  
 (2) pattern only  
 (3) number of sides only  
 (4) shape and number of sides only
- 2 An ambulance can sound its siren and flash its lights. However, it is not a living thing because it cannot \_\_\_\_\_.
- A. grow  
 B. reproduce  
 C. move from place to place on its own
- (1) A only  
 (2) B only  
 (3) A and B only  
 (4) A, B and C

- 3 The table below records the weight and height of Jenny for the past four years.

Year	Weight (kg)	Height (cm)
2010	27	127
2011	30	129
2012	32	132
2013	35	134

What is the main process that causes Jenny's weight and height to increase?

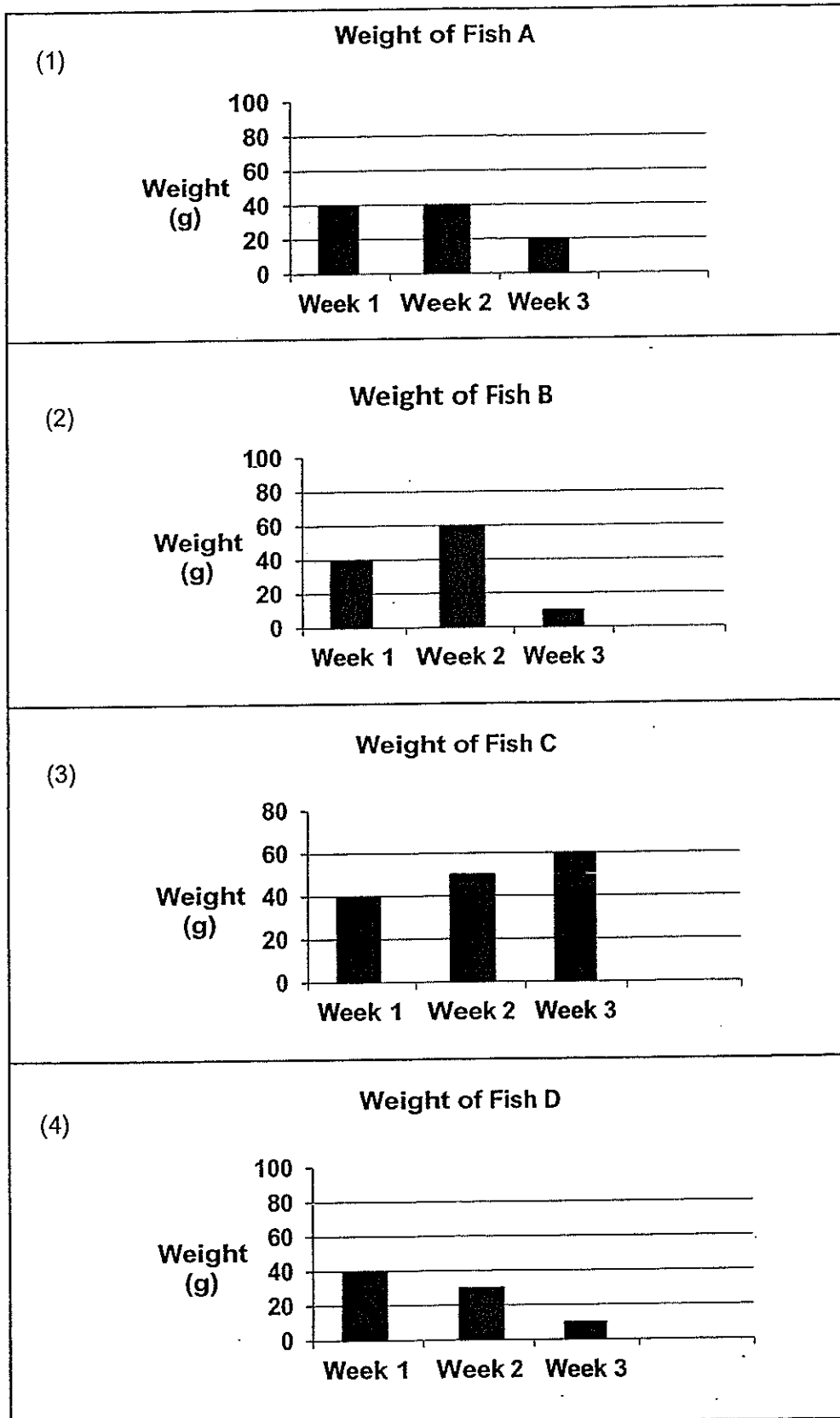
- (1) Growth
  - (2) Breathing
  - (3) Reproduction
  - (4) Responding to changes around her
- 4 Peter planted four chilli plants, A, B, C and D, in four similar pots. He placed the plants under different conditions as represented in the table below.

Chilli Plant	Air	Sunlight	Water
A	No	Yes	No
B	Yes	No	No
C	No	Yes	Yes
D	Yes	Yes	Yes

Which plant(s) would have died after two weeks?

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

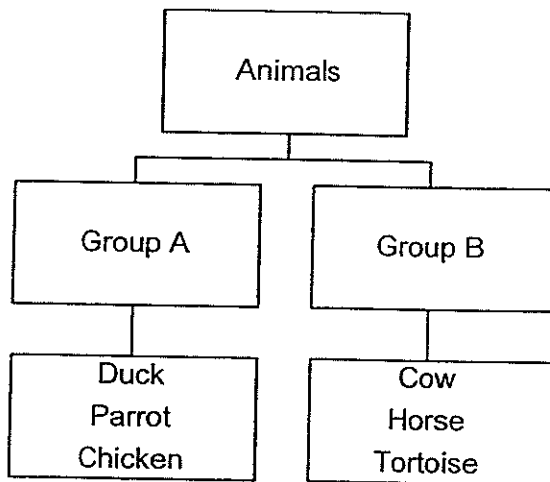
- 5 Janice had four tanks of water. She placed one fish in each tank. The fish were of the same type and similar size. The conditions in the tanks were the same. She fed the fish with different amounts of food. Over the next three weeks, Janice recorded the weight of the four fish in the graphs below. Which one of the fish has most likely been given the correct amount of food?



- 6 Study the table below carefully. Which one of the following animals is **wrongly** matched to its outer covering?

	Animal	Outer Covering
(1)	Goldfish	Scales
(2)	Frog	Moist skin
(3)	Tiger	Feathers
(4)	Polar bear	Fur

- 7 Study the classification chart below carefully.



Which headings correctly represent Groups A and B?

	Group A	Group B
(1)	Have a tail	Have no tail
(2)	Cannot fly	Can fly
(3)	Have two legs	Have four legs
(4)	Have feathers as outer covering	Have hairs as outer covering

8 Which one of the following statements about plants is correct?

- (1) All plants can be eaten.
- (2) All plants grow from seeds.
- (3) All plants grow and reproduce.
- (4) All plants produce flowers and fruits.

9 Which of the following statement(s) is/are true about a fern?

- A. It produces flowers.
- B. It feeds on other plants.
- C. It can make its own food.

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

10 Dennis carried out an experiment with four similar slices of fresh bread, D, E, F and G. He sprinkled different amounts of water on each slice of bread and placed them on the dining table. The observations are recorded in the table below.

Bread slice	Amount of water sprinkled (ml)	Number of days needed for the bread mould to form on the bread
D	0	14
E	5	10
F	10	?
G	20	4

Based on the table above, predict how many days were needed for bread mould to form on Bread F?

- (1) 2
- (2) 6
- (3) 12
- (4) 16

- 11 The table below shows the similarities and differences between bread mould and moss. Which one of the following is correct?

	Similarities	Differences
(1)	Both have leaves.	Moss has flowers but mould does not.
(2)	Both are living things.	Moss reproduces from seeds but mould reproduces from spores.
(3)	Both reproduce by spores.	Moss can make its own food but mould cannot.
(4)	Both cannot make its own food.	Moss has leaves but mould does not.

- 12 An experiment was carried out to find out if bread mould grows faster in a black box or in the garden. Which of the following variables must be kept the same to ensure a fair test?

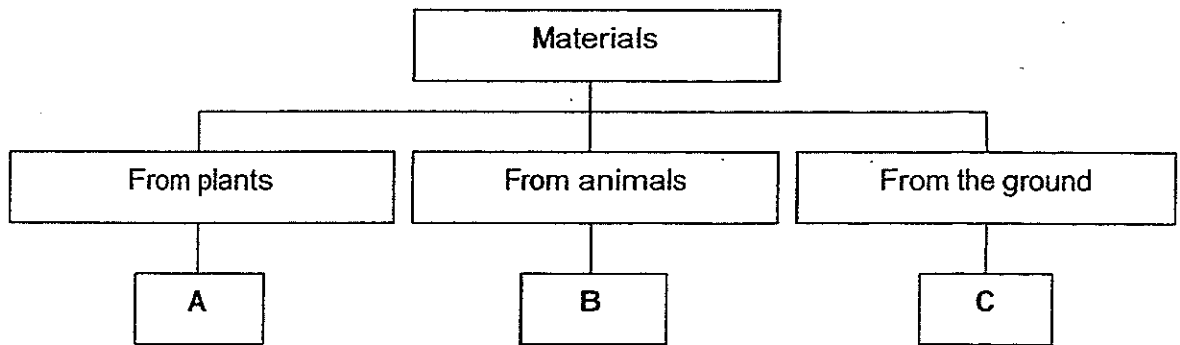
- A. Size of bread
- B. Type of bread
- C. Length of time of the experiment
- D. Place where the experiment was conducted

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

- 13 Alan needs a bag to carry heavy items for an outdoor camp. Which one of the following properties should he consider when choosing a suitable material to make this bag?

- (1) Strength
- (2) Flexibility
- (3) Transparency
- (4) Ability to float or sink

14 Study the classification chart below carefully.



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

	A	B	C
(1)	Wood	Cotton	Iron
(2)	Cotton	Silk	Ceramic
(3)	Rubber	Ceramic	Wood
(4)	Wood	Silk	Iron



- 15 The set-up below is used to find out which material, W, X, Y or Z absorbs water the fastest.

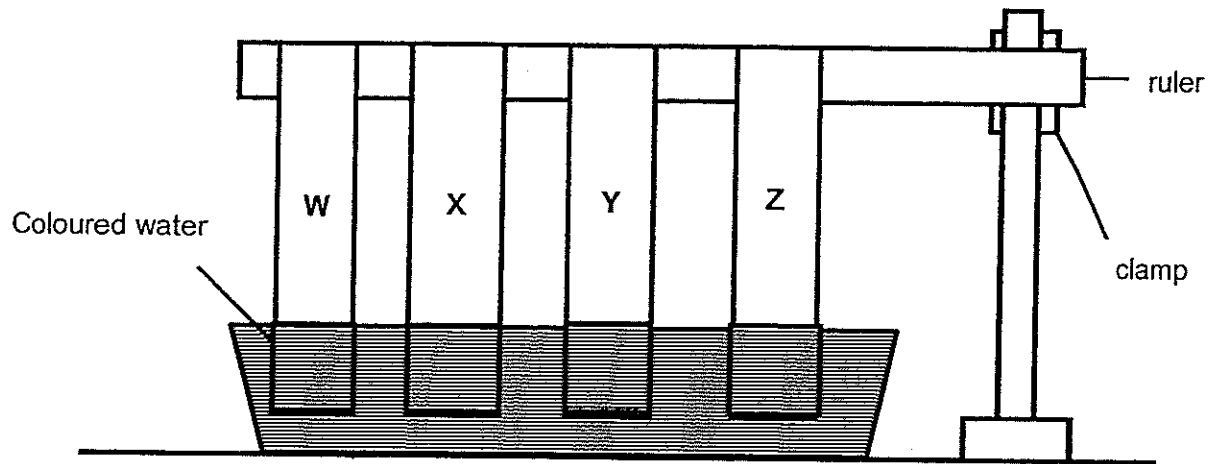


Fig. 1 Before the experiment

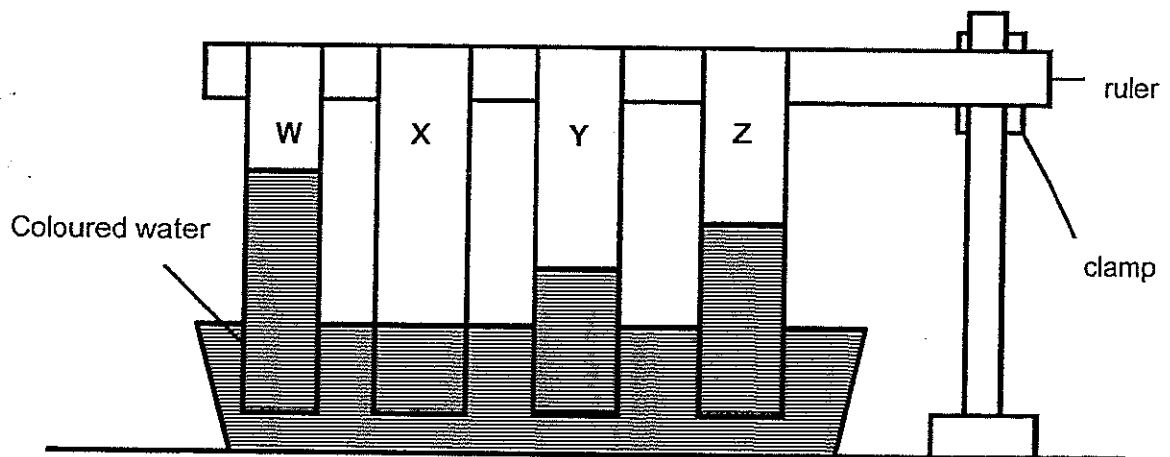


Fig. 2 After the experiment

Based on observations shown on fig. 2, which one of the materials (W, X, Y or Z) is most suitable for making a diaper?

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

END OF BOOKLET A

Please go onto Booklet B





Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2014  
SCIENCE  
PRIMARY THREE  
(BOOKLET B)

Name: \_\_\_\_\_ ( )

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

Date: 8 May 2014

Duration of paper: 1 h 15 min

\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTION TO CANDIDATES**

1. This question paper consists of 6 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write all your answers in this booklet.

Booklet	Maximum marks	Marks obtained
A	30	
B	20	
Total	50	

For questions 16 to 22, write your answers in the spaces provided in this booklet. The number of marks available is shown in brackets [ ] at the end of each question or part question. [20 marks]

- 16 Study the statements in the table below. Put a ( ✓ ) in the correct boxes below to indicate whether the statements are true or false. [2]

	Statements	True	False
(a)	Plants need water and air to stay alive.		
(b)	Plants can be categorised into flowering and non-flowering plants.		
(c)	All fruits are edible.		
(d)	Plants are important for the survival of other living things.		

- 17 Ali conducted an experiment with two similar pots of plants, Plant A and Plant B. The plants were given five hours of sunlight every day for three days. He watered Plant A with equal amount of water every day. Plant B was not given any water for the three days.

- (a) What would happen to Plant B after three days? [1]

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- (b) What was the aim of Ali's experiment? [1]

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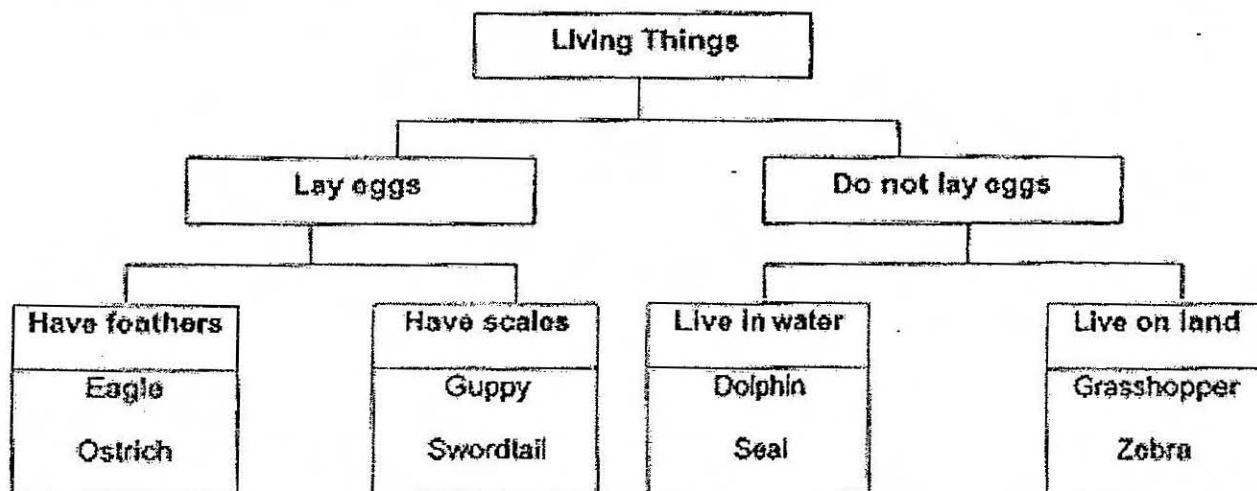
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Score	4
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- 18 Susan wanted to carry out an experiment to find out whether plants need sunlight to survive. She prepared four set-ups for her experiment. The table below shows the conditions in her experiment. Put a (✓) in the correct boxes below to indicate whether the conditions should be changed or kept the same. [2]

	Conditions	To be changed	Keep the same
(a)	Type of soil used		
(b)	Type of plant used		
(c)	Amount of soil used		
(d)	Where the plants are placed		

- 19 Study the classification chart below carefully.



- (a) Based on the classification chart above, which animal has been wrongly classified? [1]

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

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- (c) Based on the classification chart above, name two characteristics of the eagle. [2]

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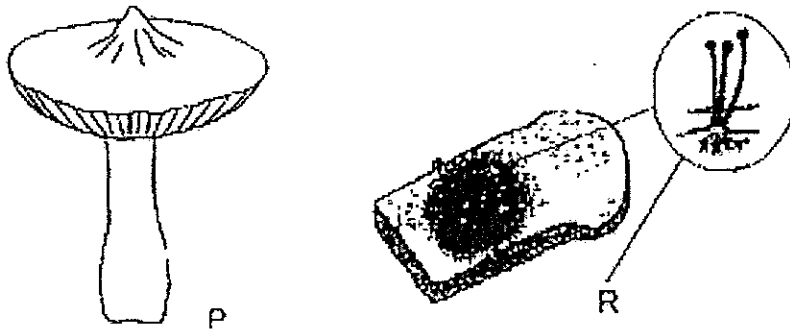


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Score	6
_____	

20 Study the diagrams below carefully.



(a) Identify the two of fungi shown in the diagrams above. [2]

P: \_\_\_\_\_

R: \_\_\_\_\_

(b) List two similarities of the fungi shown above. [2]

i. \_\_\_\_\_

ii. \_\_\_\_\_

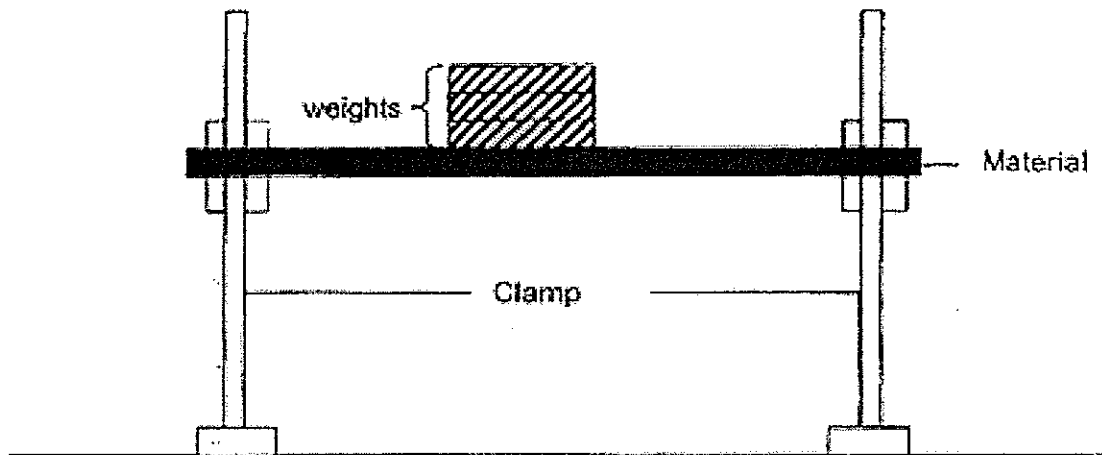
21 An experiment was conducted to find out if the objects shown in the table below would float or sink. A tank was filled with 500 ml of water and all the items were placed into it. Which of the objects would rise to the surface of the water and stay afloat and which would sink to the bottom of the tank? Put a tick (✓) in the correct boxes for each of the object. [3]

	Objects	Sink	Float
(a)	Marble		
(b)	Stone		
(c)	Coin		
(d)	Rubber eraser		
(e)	Wooden block		
(f)	Ping pong ball		

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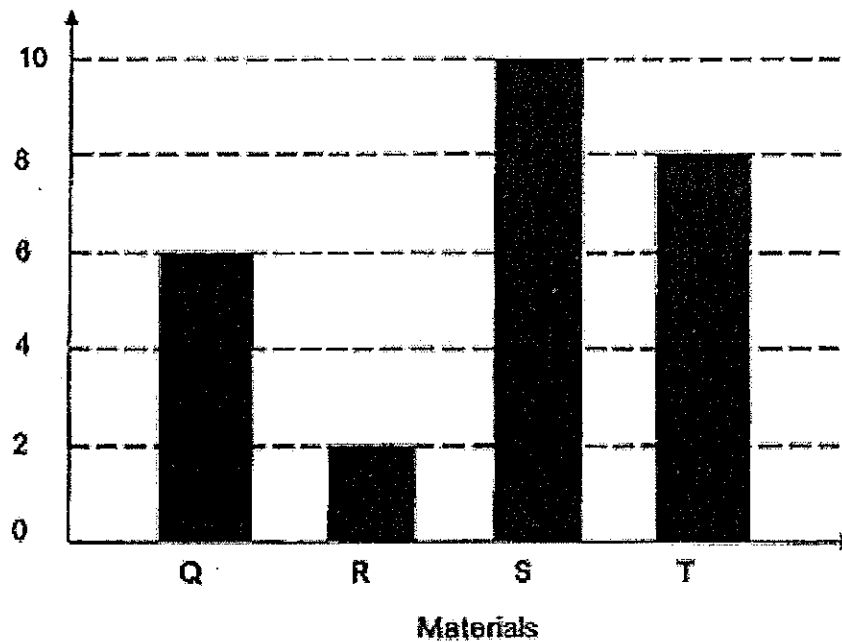
Score	7
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- 22 Angela wanted to test the strength of four different sheets of materials, Q, R, S and T. Each sheet was of the same size and thickness. She placed weights on the materials as shown below and noted the least number of weights needed to cause the materials to break.



The results of the experiment are shown in the graph below.

Weights (kg)



Based on the results as shown in the bar graph above, answer the following questions:

- (a) Which one of the materials Q, R, S or T was the weakest?

[1]

(Question 22 continues on page 6)

Score	
	1

- (b) Which one of the materials (Q, R, S or T) could be used to make a bookshelf that could withstand a 9 kg load? [1]

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

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END OF BOOKLET B

Please check all your answers carefully.

Score	2
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Year: 2014  
Level: Primary 3  
School: Anglo-Chinese School (Primary)  
Subject: Science  
Semester: SA1

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

Q16) a) True    b) True    c) False    d) True

Q17) a) Plant B died.

b) To find out if plants need water to survive.

Q18) a) Keep the same    b) To be changed    c) To be changed    d) Keep the same

Q19) a) Grasshopper

b) It is because grasshopper lays eggs.

c) It lays eggs and has feathers.

Q20) a) P: Mushroom    R: Bread Mould

b) i. They reproduce by spores.

ii. They both can't make their own food.

Q21) a) Sink

b) Sink

c) Sink

d) Sink

e) Float

f) Float

Q22) a) Material R is the weakest.

b) Material S.

c) It is the strongest.

