Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

MILESTONE CHECK 2021
SCIENCE
PRIMARY THREE
BOOKLET A

Name: _____ ( ) Class: Primary 3 ___

Date: _____ Duration of paper: 50 min

_____

Parent's/Guardian's signature

INSTRUCTION TO CANDIDATES

1. This question paper consists of **10** 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.

Downloaded from SingaKids.com

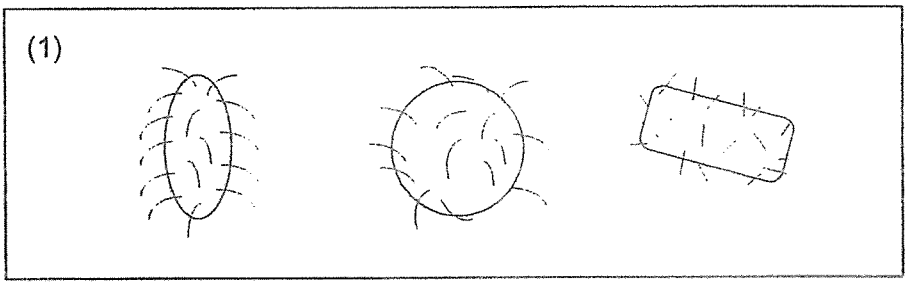
Downloaded from SingaKids.com

For each of the following questions from 1 to 11, 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. [22 marks]

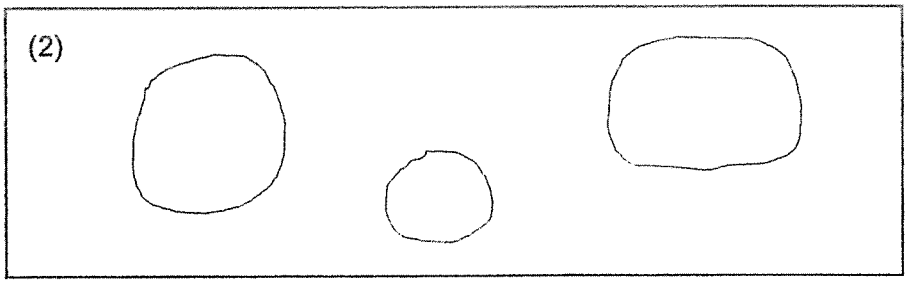
---

1 There are different types of bacteria. Which of the following group has a bacteria that is **wrongly** classified?

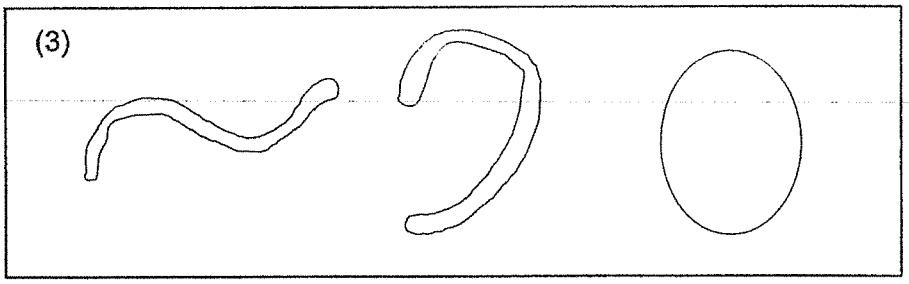
(1)



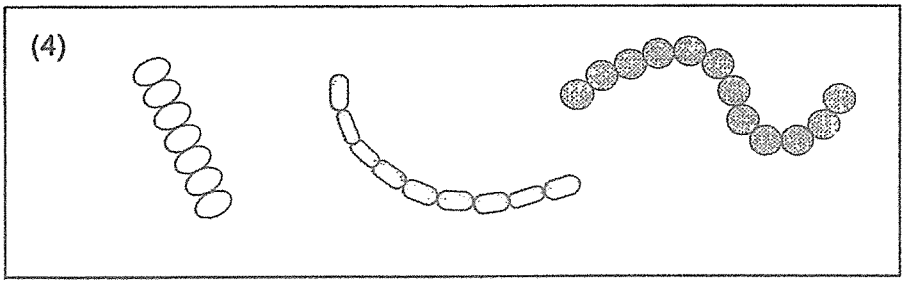
(2)



(3)

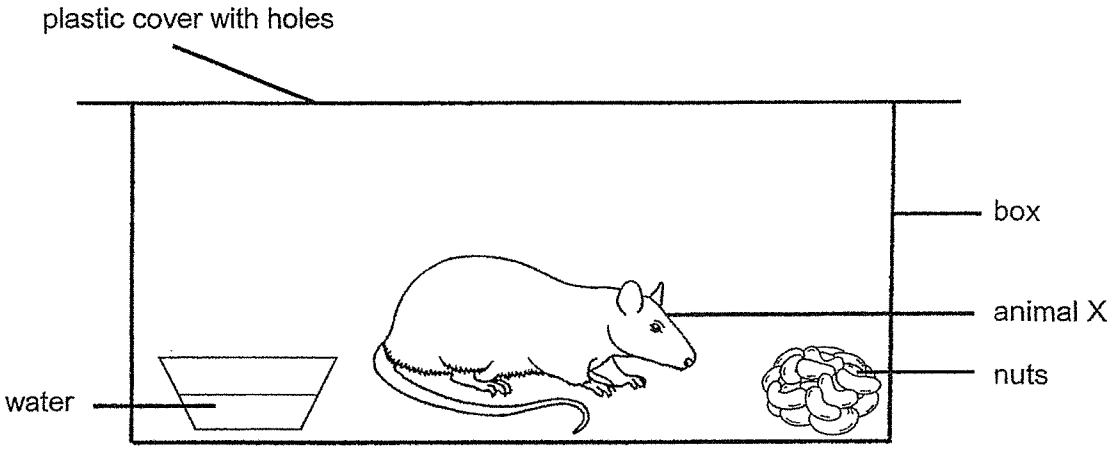


(4)



Downloaded from SingaKids.com

2 Yin Hua placed 20 nuts and 100 ml of water in the box as shown.



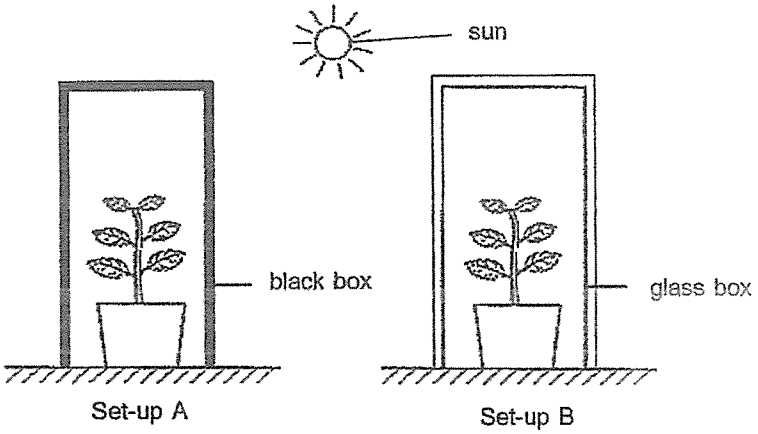
Animal X is placed in the box for one day.

What would Yin Hua observe about the number of nuts and amount of water the next day?

	Number of nuts	**Amount of water**
(1)	More than 20	More than 100 ml
(2)	More than 20	100 ml
(3)	20	Less than 100 ml
(4)	Less than 20	Less than 100 ml

Downloaded from SingaKids.com

3 Simba conducted an experiment using two similar young plants as shown. Both set-ups A and B were given an equal amount of water at the start of the experiment.



Simba recorded the height of each plant in the table below.

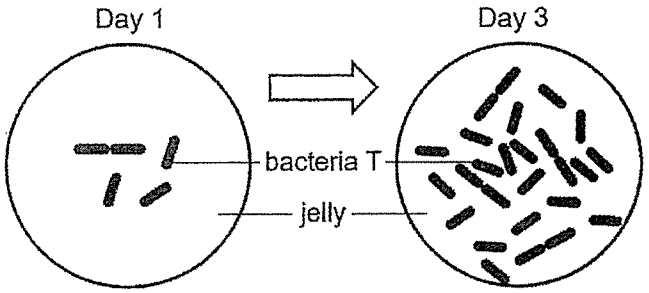
	Height of plant (cm)	
Day	**Set-up A**	**Set-up B**
1	9	9
10	9	12
15	9	15
20	X	Y

Which of the following best represents X and Y?

	X	**Y**
(1)	6	9
(2)	7	12
(3)	8	15
(4)	9	18

Downloaded from SingaKids.com

4 Rebaca grew bacteria T in jelly and observed the change in the number of bacteria over three days.



Which of the following explains Rebaca's observation?

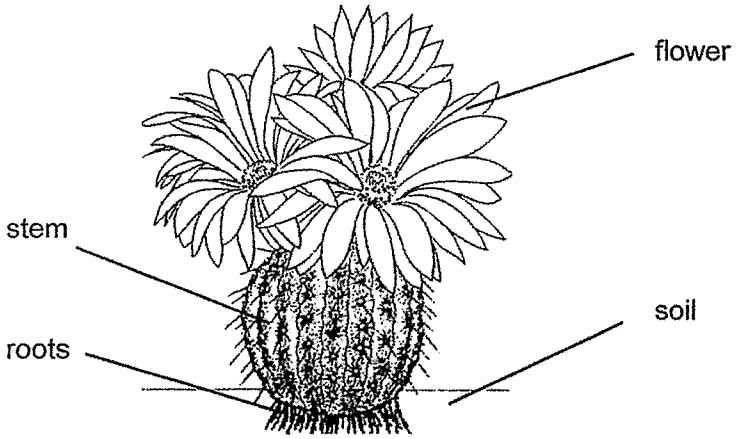
(1) Bacteria T reproduced.

(2) Bacteria T ate the jelly.

(3) Bacteria T responded to changes.

(4) Bacteria T broke into pieces.

5 Study the diagram which shows a plant found in a desert.

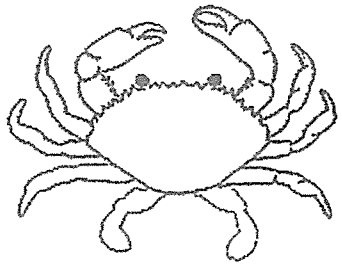


Which of the following set of characteristics best represents the plant above?

	Characteristics		
	Is flowering	**Needs water**	**Grows in water**
(1)	✓	✓	✓
(2)	✓	✓	
(3)			✓
(4)	✓		✓

Downloaded from SingaKids.com

6 Study the diagrams of two different animals.





Based on the diagrams only, what do the two animals have in common?

A They have eyes.

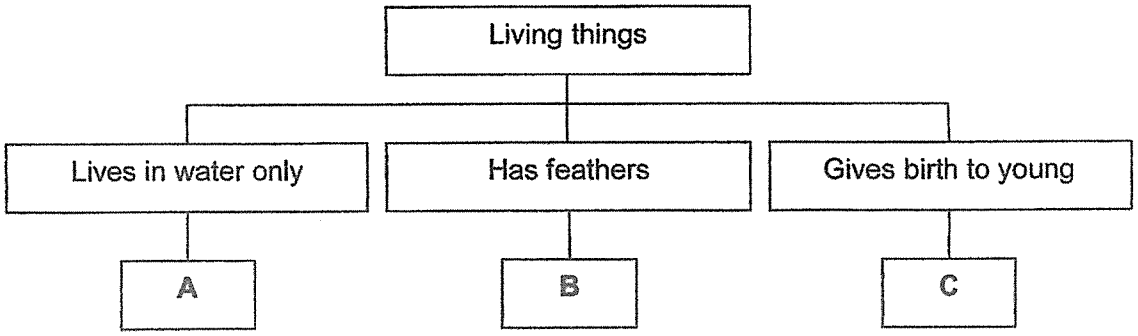
B They have wings.

C They have feelers.

D They have more than two legs.

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

7 Study the classification diagram carefully.

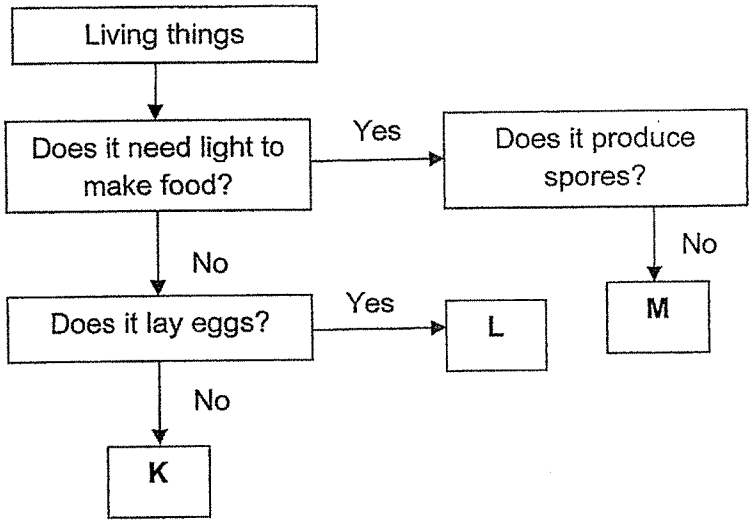


Which of the following could A, B and C be?

	A	B	C
(1)	Fish	Birds	Mammals
(2)	Fish	Insects	Amphibians
(3)	Amphibians	Birds	Reptiles
(4)	Reptiles	Insects	Mammals

Downloaded from SingaKids.com

8 Study the flowchart below.

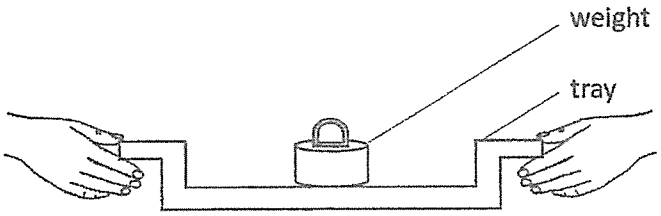


Which of the following best represents the letters K, L and M?

	K	L	M
(1)	insects	fish	flowering plant
(2)	mammals	amphibians	non-flowering plant
(3)	mammals	reptiles	flowering plant
(4)	birds	insects	fungi

Downloaded from SingaKids.com

9 Zen tests the strength of four trays that are of the same size but made of different materials, A, B, C and D. He puts weights, one at a time, on a tray until the tray breaks.



He repeats the steps with other trays and records his findings below.

Tray	A	B	C	D
Number of weights before tray breaks	9	6	4	8

Which tray(s) would be able to hold five such weights?

(1) C only

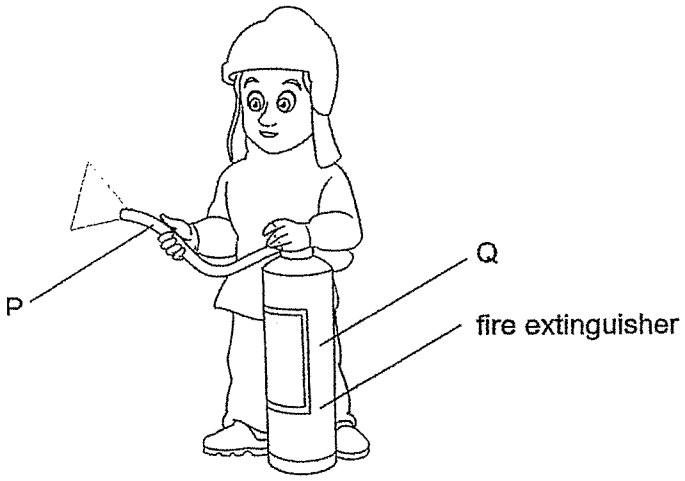
(2) A and B only

(3) A, B and D only

(4) A, B, C and D

Downloaded from SingaKids.com

10 The diagram shows a fireman using a fire extinguisher with two important parts, P and Q as shown.



Part	Use
P	Tube to aim over the fire
Q	Container to store substance X which helps to put out a fire

Which of the following correctly matches the materials with the parts P and Q?

	P	Q
(1)	glass	wood
(2)	rubber	metal
(3)	rubber	fabric
(4)	glass	ceramic

Downloaded from SingaKids.com

11 An experiment was conducted to find out how different types of soil affect the growth of plants.

Set-up	A	B	C	D
Type of soil	garden	sandy	garden	sandy
Amount of water given (ml)	40	30	50	40

Which set-ups should be used to ensure a fair test?

(1) A and B only

(2) A and D only

(3) B and C only

(4) B and D only

END OF BOOKLET A

Please go on to Booklet B.

Downloaded from SingaKids.com

Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

MILESTONE CHECK 2021
SCIENCE
PRIMARY THREE
BOOKLET B

Name: _____ ( ) **Class: Primary 3** ___

Date: _____ **Duration of paper: 50 min**

_____

Parent's/Guardian's signature

INSTRUCTION TO CANDIDATES

1. This question paper consists of **6** 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. Write all your answers in this booklet.

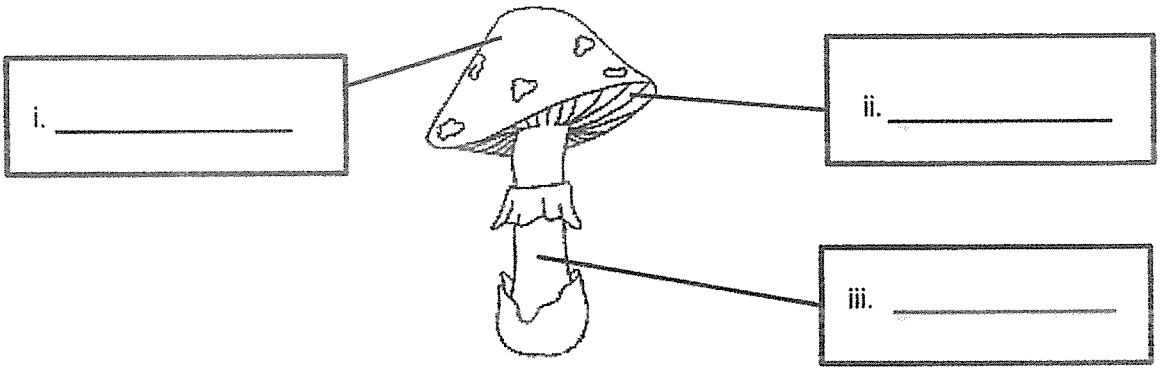
Booklet	Maximum marks	Marks obtained
A	22	
B	18	
Total	40	

Downloaded from SingaKids.com

For questions 12 to 16, 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. [18 marks]

---

12 Study the diagram of a mushroom carefully.



(a) On the diagram above, fill in the blanks with the correct parts. [3]

[There are four helping words given below. Use each word only once or not at all.]

Helping words:	stalk	cap	stem	gills

(b) State the function of the gills in a mushroom. [1]

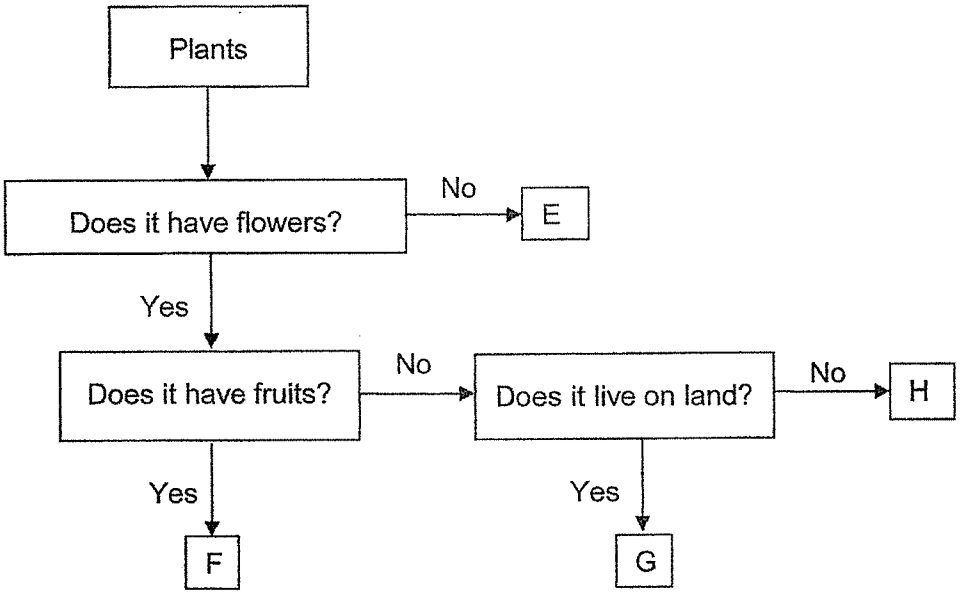
_____

(Go on to the next page)

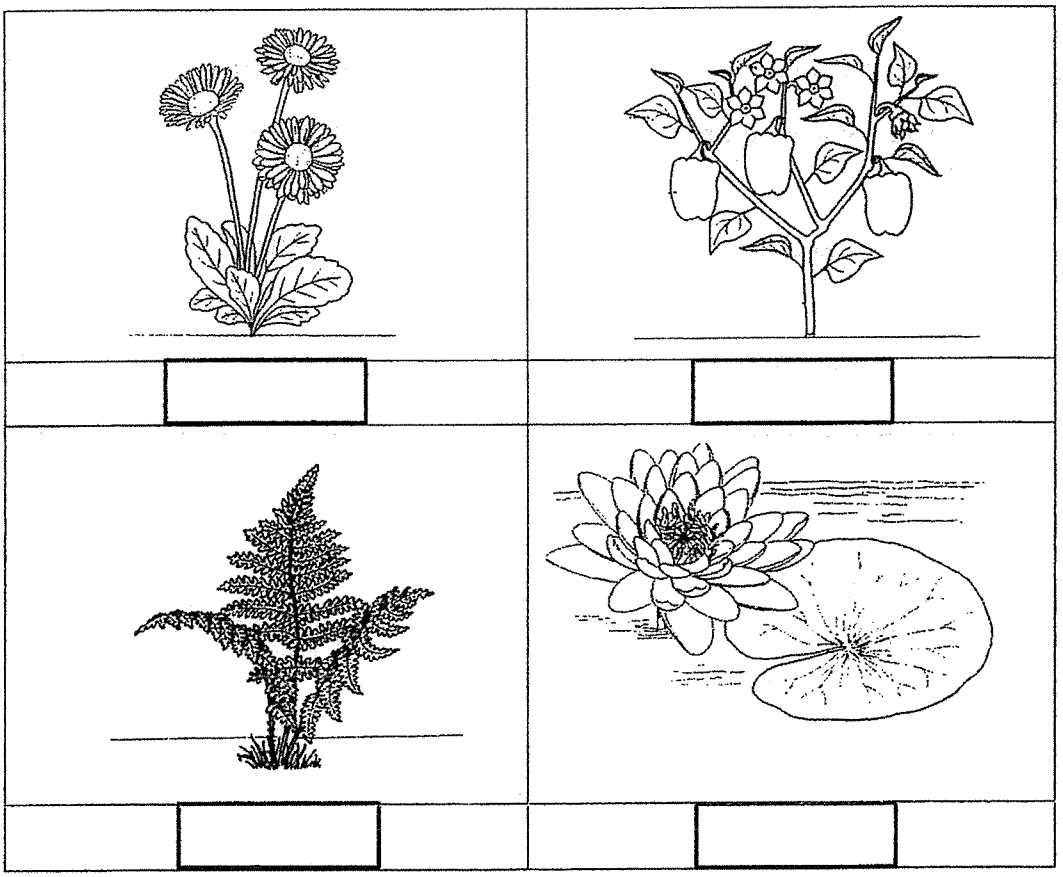
Score	/ 4

Downloaded from SingaKids.com

13 Study the flowchart carefully.



Based only on the flowchart above and your observations of the diagrams below, write the letters E, F, G and H in the correct boxes provided. [4]

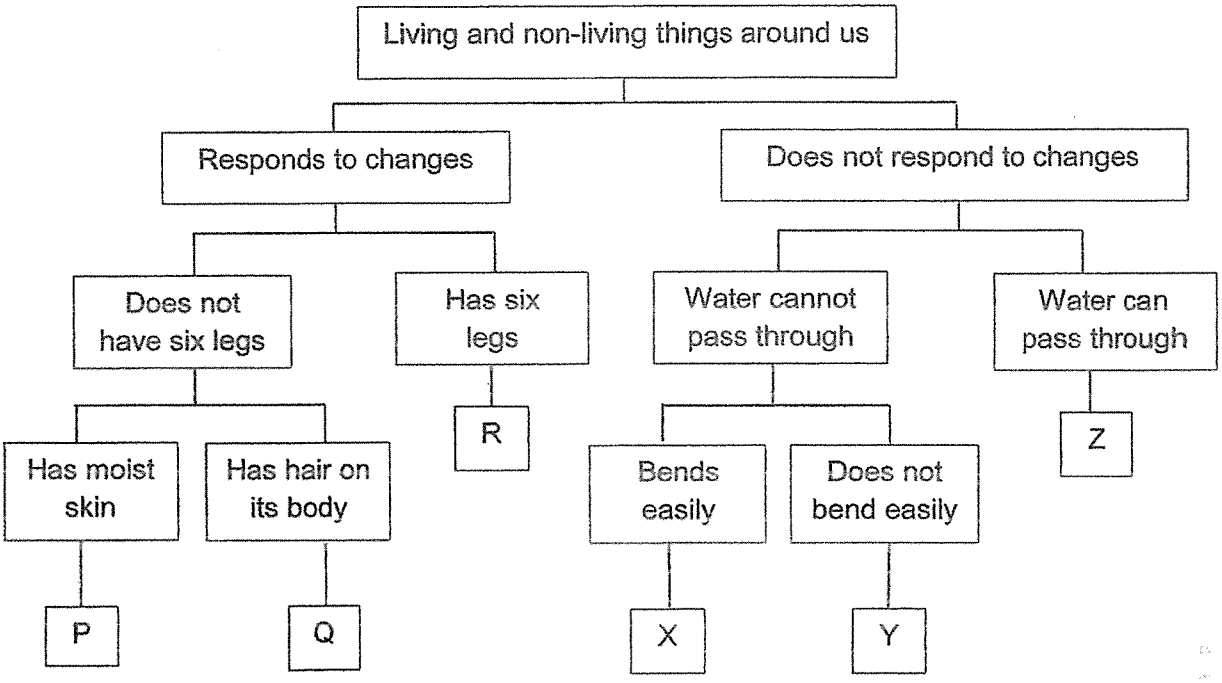


(Go on to the next page)

Score	/4

Downloaded from SingaKids.com

14 Study the classification diagram below.



(a) Using the diagram above, state all the characteristics of R. [1]

_____

_____

(b) State one difference between X and Y. [1]

_____

(c) Based on the classification diagram, name suitable animal groups in which P and Q belong to. [2]

Animal Group	
P	Q

(d) Based on the diagram, which thing, X, Y or Z, is suitable to be made into a raincoat? [1]

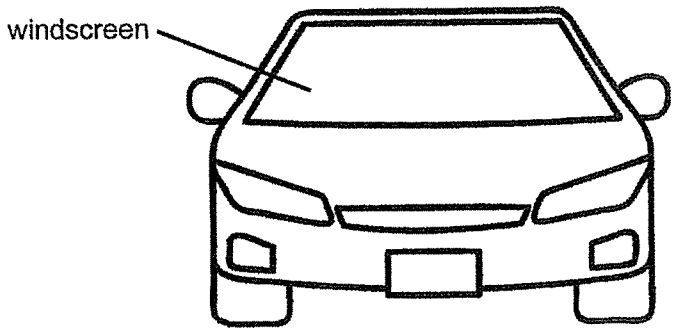
_____

(Go on to the next page)

Score	
	5

Downloaded from SingaKids.com

15 The picture shows the windscreen of a car.



Study the table below.

Property	Material		
	A	B	C
Is it waterproof?	No	Yes	Yes
Does it bend easily?	Yes	Yes	No
Does it allow light to pass through it?	No	Yes	Yes

(a) Which material, A, B or C, is most suitable to make the windscreen? State two reasons for your answer. [2]

_____

_____

(b) State the type of material which the windscreen could be made of. [1]

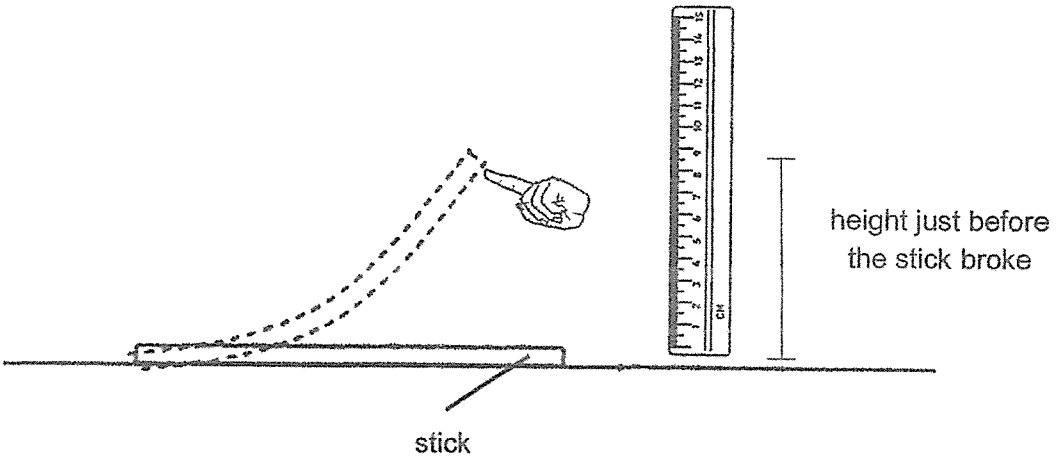
_____

(Go on to the next page)

Score	
	3

Downloaded from SingaKids.com

16 Shanti has two sticks of the same thickness but made of different materials. She placed them flat on a table and bent them upwards with her finger, one at a time. She then measured the height that the stick bent just before the stick broke.



(a) What property of material is Shanti trying to test? [1]

_____

(b) State one other variable to keep the same to ensure a fair test. [1]

_____

END OF BOOKLET B
Please check all your answers carefully.

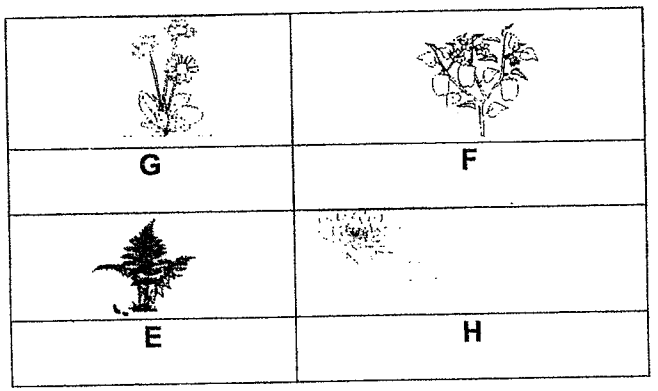
Score	
	2

Downloaded from SingaKids.com

Downloaded from SingaKids.com

ACS(P) 2021 P3 Science Milestone Check Marking Scheme

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11
3	4	4	1	2	2	1	3	3	2	2

	ACCEPTABLE RESPONSES	MARKS	REMARKS
12a	Key concept/skill assessed: Fungi / knowledge i) cap [1m] ii) gill / gills [1m] iii) stalk [1m]	**3m**	
12b	Produce spores.	**1m**	For reproduction [0m]
13	Key concept/skill assessed: Plants / Observation  **G** **F** **E** **H**	**4m**	

Downloaded from SingaKids.com

14a	Key concept/skill assessed: Animals / classification diagram R responds to changes and has six legs. [1m]	**1m**	½ m for one characteristic stated
14b	X bends easily while Y does not.	**1m**	Must show comparison
14c	P: Amphibian(s) [1m] Q: Mammal(s) [1m]	**2m**	
14d	X	**1m**	
15a	Key concept/skill assessed: Materials / Application Material C. A is waterproof / does not bend easily / allows light to pass through.	**1m** **1m**	If any material other than C, is chosen. [0m] Deduct ½ m for every missing reason.
15b	Glass	**1m**	
16a	Key concept/skill assessed: Materials / Application Flexibility.	**1m**	
16b	Key concept/skill assessed: Fungi / Comparing The arm strength used to bend the two sticks have to be the same./ The length of the sticks have to be the same.	**1m**	

END

Downloaded from SingaKids.com