Anglo-Chinese School (Junior)



BITE-SIZED ASSESSMENT 1 (2021) PRIMARY 4 SCIENCE

Varr	1e:
NS"	TRU
Ī	Do not turn over the pages until you are told to do so.
2	Follow all instructions carefully.
}	There are 9 questions in this booklet.
Ļ	Answer ALL questions

Friday

5

Question	Possible	Marks
Paper	Marks	Obtained
Total	20	

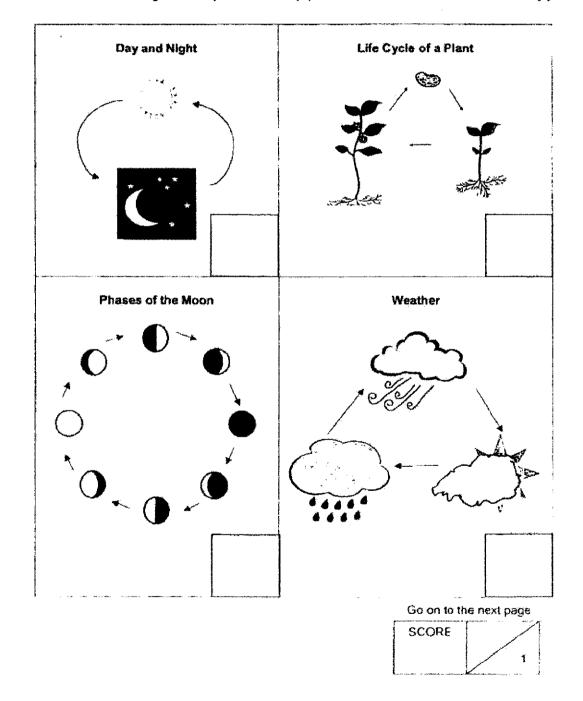
The marks are given in the brackets [] at the end of each question or part question.

This question paper consists of 10 printed pages (inclusive of cover page).

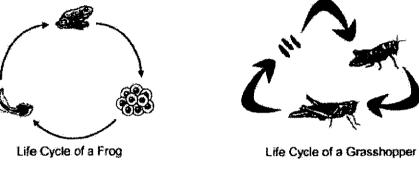
Answer questions 1 to 9. The number of marks available is shown in the brackets [] at the end of each question. (20 marks)

1. Which of the following is not a cycle? Put a tick(✓) in the correct box.

[1]



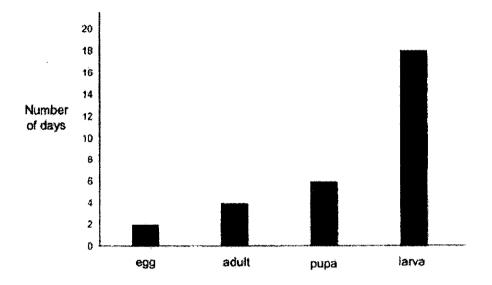
2. Study the life cycles of a frog and a grasshopper.



Ţ
(100-100-100-100-100-100-100-100-100-100
ļ

Go on to the next page
SCORE
3

Annie studied the tife cycle of insect X. She recorded the number of days for each stage
of its life cycle in the graph shown. However, she did not present the stages of the life
cycle in the correct order.



a) Based on Annie's results, how many day's does it take for insect X to become an adult after the egg has hatched?

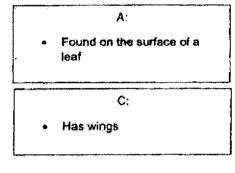
b) Insect X has wings. It spends certain stages of its life cycle in the water.

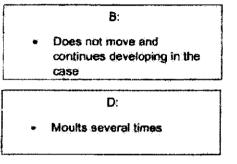
Name the stage(s) spent in water. [1]

Go on to the next page

SCORE 2

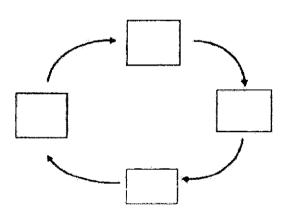
4. Ahmad observed some butterflies in the garden during the different stages, A, B, C and D, of its life cycle over a period of time and recorded his observations. Each box represents a stage in the life cycle of a butterfly.



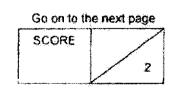


[1]

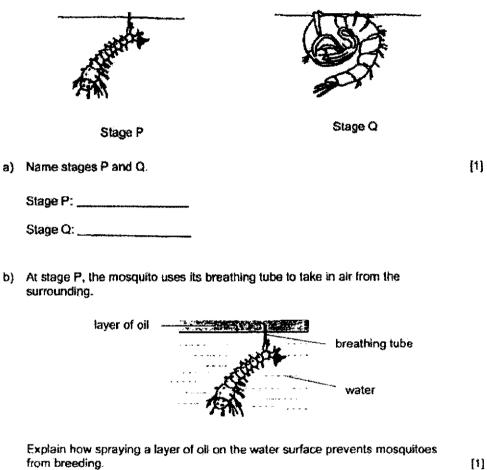
 a) Fill in the boxes with A, B, C and D, in the correct order of the stages in the life cycle of a butterfly.



b)	Name the stage that the butterfly is most harmful to farmers. Explain why.	[1]
	the state of the s	



The diagram shows two stages, P and Q, in the life cycle of a mosquito. The
mosquito at these two stages are found near the surface of the water?



Go on to the next page
SCORE
2

- 6. John wants to find out which type of seed, A, B and C, germinates first.
 - a) Tick (✓) the variable(s) which should be kept the same for John to test the aim
 of his experiment.

[1]

Variables	Tick ()
Type of seed	
Amount of water	
Location of the experiment	
Number of seeds in each beaker	

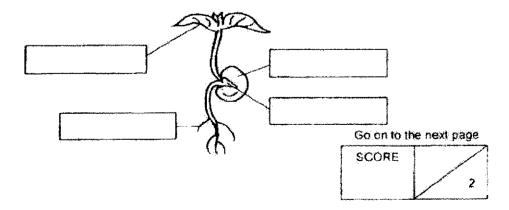
b) John planted seeds A, B and C in identical pots of soil. He watered them with 100 ml of water daily. He measured and recorded the height of each plant daily in the table shown.

Type of		Height of plant (cm)			
Seed	Day 1	Day 2	Day 3	Day 4	Day 5
A	0	1	4	6	10
В	1	3	5	7	10
ć	0	1	3	8	9

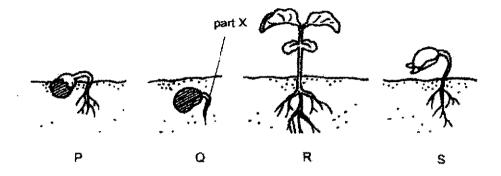
Which seed germinated first? ______ [1/3]

c) Where does the young plant get its food from? Tick(≺) the correct box.

[1/2]



7. The pictures show the growth of a seed into a young plant.



a) Arrange the stages of growth of the seed in the correct sequence by writing the letters P, Q, R and S in the boxes. [1]



b) Name part X and state its function.

Name of part X:

[1]

Function of part X:

Go on to the riext page

GO OF TO TH	e Hevr hade
SCORE	
	2
i	/

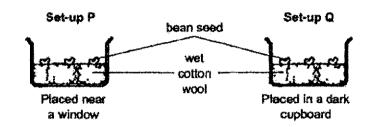
c) The diagram shows a banana plant.

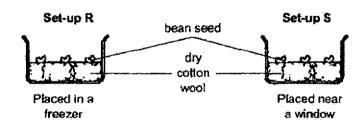


	At which stage of its life cycle is the plant at? Explain your answer.	[1]
		
8.	The following passage describes the life cycle of a cockroach. Fill in the blanks with the words.	ne correc [2
	The adult cockroach lays its eggs in an egg case. The young of a cockroach is called	ä
	itlike the adult cockroach except that it is sma	ller. It
	several times as it grows. At the adult stage, it has wings and is a	ble to

Go on to the next page
SCORE
3

Devi wants to find out if water is needed for germination to take place. She prepares four set-ups as shown.





a) Which two set-ups should she use for her experiment?

[1]

b) Devi predicted that the seeds in set-up Q will not germinate. Is her prediction correct? Explain your answer.

[1]

c) Devi used set-ups P and Q for another experiment. What is the aim of this experiment?

[1]

End of Paper

SCORE 3

SCHOOL : ANGLO-CHINESE SCHOOL (JUNIOR)

LEVEL : PRIMARY 4 SUBJECT : SCIENCE

TERM: BITE-SIZE ASSESSMENT 1

Q1	Weather		
Q2	Difference	1 1 2	do not resemble the adult rasshopper resemble the adult.
	Difference	2: The frog spends part o	of its life cycle in water while s its life cycle entirely on land.
	b) Both have a three	stages life cycle.	
Q3	a) 24 days b) Egg, larvae, pupa		
Q4	a)	D bage. It destroys the farmers of	crops by eating it.
Q5	a) P: Larva Q: Pupa b) It blocks the to breathe.	breathing tube of the larva o	f the mosquito and it is unable
Q6		Variables	Tick (<)
	Type of s	eed	
	Amount	of water	. 🗸
	Location	of the experiment	4
	Number o	of seeds in each beaker	A.
	a) b) Seed B	C THE CO.	
Q7	c) a) O PS-	R	

	b) X: RootFunction of X: Help take in water and mineral salts for the plantsc) Adult stage. It bears fruits
Q8	Nymph Looks Moults Fly
Q9	 a) Set-up P and Set-up S b) No. The seeds will germinate because they have air, warmth and water c) To find out if light is needed by seeds for germination.