## Anglo-Chinese School (Junior)



## BITE-SIZED ASSESSMENT 1 (2021) PRIMARY 4 SCIENCE

Friday	
Name:	

## INSTRU

- 1 Do not turn over the pages until you are told to do so.
- 2 Follow all instructions carefully.
- 3 There are 9 questions in this booklet.
- 4 Answer ALL questions.
- 5 The marks are given in the brackets [ ] at the end of each question or part question.

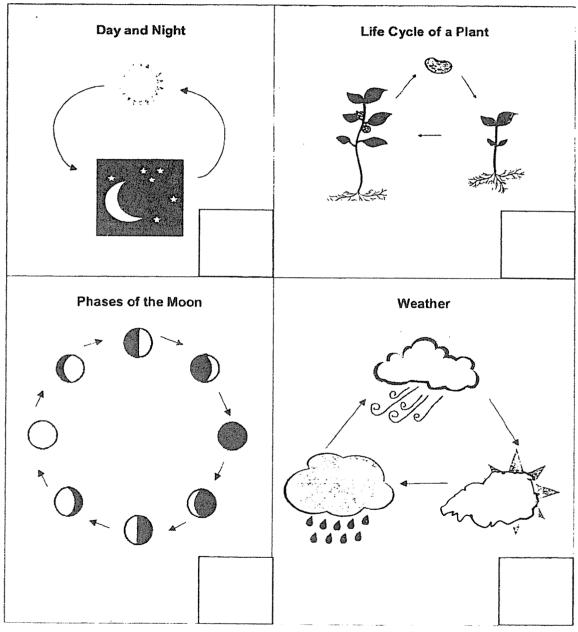
Question	Possible	Marks
Paper	Marks	Obtained
Total	20	



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

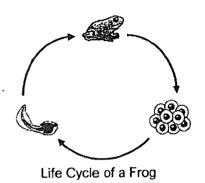
Which of the following is not a cycle? Put a tick(✓) in the correct box.

[1]



	, ,
SCORE	
	1

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

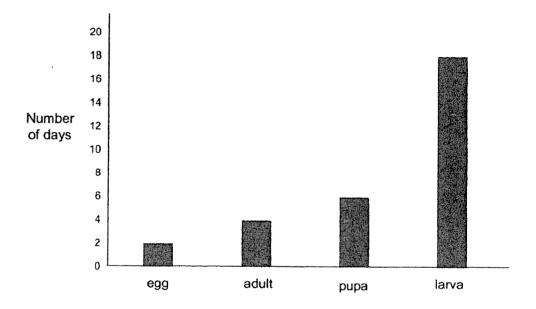


Life Cycle of a Grasshopper

a)	State two differences between their life cycles.	[2]
	Difference 1:	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
	Difference 2:	
b)	State a similarity between their life cycles.	[1]

	, , , , , , , , , , , , , , , , , , , ,	
SCORE		
	3	

Annie studied the life 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 days does it take for insect X to become an adult after the egg has hatched?

[1]

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

Name the stage(s) spent in water.

[1]

SCORE	
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.

A:

Found on the surface of a leaf

C:

 Does not move and continues developing in the case

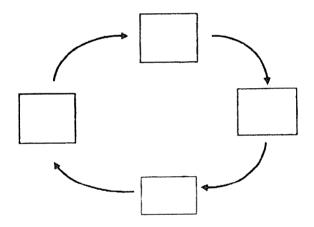
B:

Has wings

D:

Moults several times

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.



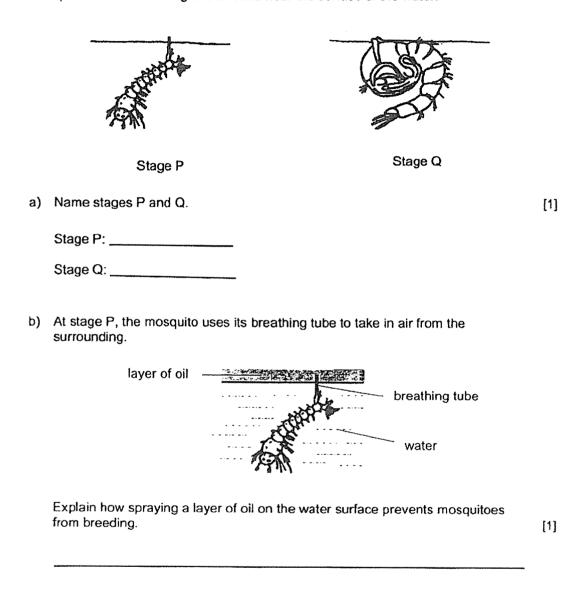
b)	Name the stage that the butterfly is most harmful to farmers. Explain why.	[1]

Go on to the next page

[1]

OU OII to ti	ic next page
SCORE	
	2

5. 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.



00 011 10 11	ie liekt 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]

[%]

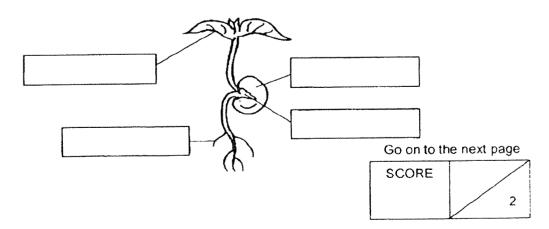
Variables	Tick (✓)		
Type of seed			
Amount of water			
Location of the experiment			
Number of seeds in each beaker			

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.

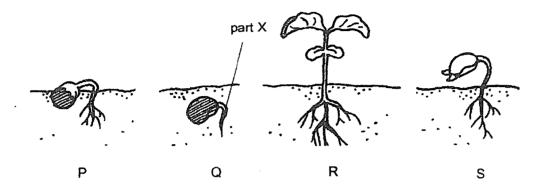
Type of Seed	Height of plant (cm)				
	Day 1	Day 2	Day 3	Day 4	Day 5
A	0	1	4	6	10
В	1	3	5	7	10
С	0	1	3	8	9

Which seed germinated first?		[½]
------------------------------	--	-----

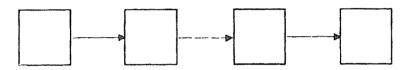
c) Where does the young plant get its food from? Tick(✓) the correct box.



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.



b) Name part X and state its function.

•	*	1
ŧ	- 1	ı
•	•	

[1]

Name of part X:

Function of part X:

SCORE	
	2

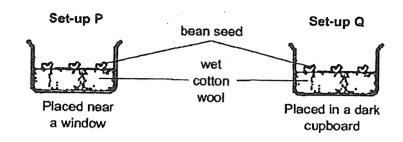
c) The diagram shows a banana plant.

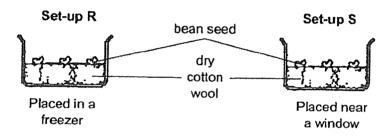


	At which stage of its life cycle is the plant at? Explain your answer.	ניו
8.	The following passage describes the life cycle of a cockroach. Fill in the blanks with the cwords.	orrect [2]
	The adult cockroach lays its eggs in an egg case. The young of a cockroach is called a	
	It like the adult cockroach except that it is smaller.	It
	several times as it grows. At the adult stage, it has wings and is able	to
	around.	

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

00005	
SCORE	
	/ 2
	3

## ANSWER KEY

YEAR

: 2021

LEVEL

PRIMARY 4

SCHOOL

: ANGLO-CHINESE SCHOOL (JUNIOR)

SUBJECT : SCIENCE

TERM

: BITE-SIZED ASSESSMENT 1

Q1	West	her 🗹			
Q2	(a)	Difference 1: The young of the frog does not resemble			
-~-	the adult while the young of a gr				
			resembles the adult.		
		Difference 2:	The frog spends part of its life cycle in		
			water while the grasshopper spends its life		
<del>                                </del>		cycle entirely	<del>-</del> -		
	(b) Both have a three staged life cycle.			ycle.	
Q3	(a)	24 days			
	(b)	egg, larvae, pupa	<del>}</del>		
Q4	(a)	<u> </u>	~		
			ि		
	(b)	The larvae stage	. It destroys th	e farmers crops by eating it.	
Q5	(a) P: Larva				
		Q:   pupa			
(b) It blocks the breathing tube of the larva of the mos			the larva of the mosquito and		
	<u> </u>	it is unable to br			
Q6	(a)	Type of seed A	mount of water		
		Location of the		<i>V</i>	
		Number of seed	is in each	•	
		beaker		<u> </u>	
	(b)	Seed B			
	(c)	4	ALSO .		
				<u></u>	
		,		'	
	1 1	į <sub>1</sub>			
	:	: <u>L.,</u> J	· <b>赤</b> )		

Q7	(a)	Q→P→S→R		
	(b)	X:	root	
		Function	Helps take in water and mineral salts for the	
		of X:	plant.	
	(c)	Adult stage. It bears fruits		
Q8	nymph	nymph		
	looks	s		
	moults	s		
	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.		