lame:	Date:

25
total marks

Science Assessment Year 5: Living Things and Their Habitats

Reproduction

1.	There are two	types c	of reproductio	n. Fill i	n this	table 1	to complete	what !	you	know
	about them:									

		Sexual Reproduction	Asexual Reproduction				
	How many parents?						
	Where do features of the offspring's appearance come from?						
	An advantage						
	A disadvantage			3	3 marks		
Plant Reproduction							
2	. Complete the blanks in this	s sentence about plant reprod	luction:				
Female plants cells are found in and male cells are							
	found in						
				2	2 marks		
3	. Name a way that an asexu	al plant reproduces.					

3.	Name	α	way	that	an	asexual	. p	lant	reprod	luces.	

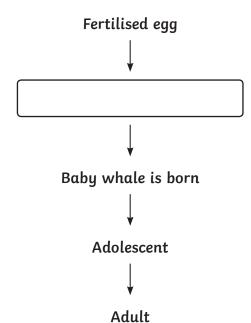
Mammals

4. Name a characteristic of mammals.

.....

1 mar

5. Fill in the blank space for the lifecycle of a whale:



1 mark

6. There are three types of mammals. Fill in the table below with more detail:

	Marsupials	Monotremes	Placentals
a. What type of mammal is a kangaroo?			

• What is a baby kangaroo called?

 $\boldsymbol{c}.$ What makes this type of mammal different from other types of mammal?

2 00 00 00

Total for

An	nphibians and Insects	
	An animal with a backbone is called a whilst an animal without a backbone is called an	
		1 mark
8. 1	What is metamorphosis?	
		1 mark
9. 1	How do amphibians metamorphose?	
		1 mark
10.	Explain how insects metamorphose.	
		1 mark
• •		
Bir	rds	
11.	What grows inside a fertilised bird's egg?	1 mark
10	What because if an one is not foutilised?	
12.	What happens if an egg is not fertilised?	1 mark
		Total for this page

13.Number these stages in the order they come in the life cycle of $\boldsymbol{\alpha}$ bird.

Number	
	Egg hatches and adults provide food
	A fertilised egg is laid by the female
	The chick grows and develops
	The young bird leaves the nest
	The adults mate and reproduce

Similarities and Differences

14. Fill in this table of similarities and differences with **one** example for each box.

	Similarity	Difference
Bird and Amphibian		
Mammal and Insect		
Bird and Mammal		
Amphibian and Insect		
Mammal and Amphibian		
Bird and Insect		

2 marks
6 marks
Total for this page

Answer Sheet: Science Assessment Year 5:

Living Things and Their Habitats



question		answer		marks	notes	
1. There are	two types of	reproduction. Fill	in this table to cor	mplete wha	it you know about them.	
		Sexual Reproduction	Asexual Reproduction			
	How many parents?	2	1			
	What do the offspring look like?	A mix of the two parents	A clone/exact copy of the parent			
	An advantage	Any from: The species can change over time Diseases do not affect all example as they are all a bit different	Any from: Only one parent is needed Population can increase quickly Good features are always passed on	3	0 marks for 0-2 correct 1 mark for 3-5 correct 2 marks for 6-7 correct 3 marks for 8 correct	
	A disadvantage	Any from: Reproduction not possible with one isolated plant/animal Time and energy needed to wait for reproduction	Any from: No variation or difference so cannot adapt as well to changes in climate, habitat or diseases			
2. Complete	the blanks in	this sentence abo	out plant reproduct	ion.		
	Female plants cells are found in ovules and male cells are found in pollen .			2	0 marks for 0 correct 1 mark for 1 correct 2 marks for 2 correct	
					Do not accept 'eggs' instead of 'ovules' as this question refers to plants only.	
3. Name a w	ay that an as	exual plant reprod	uces.			
	 Bulbs Tubers Side shoots Runners Plantlets Branches with plantlets/baby plants 					
4. Name a c	4. Name a characteristic of mammals.					
	 Feed babies their milk Have hair Warm blooded (give birth to live babies) 				Accept live babies as most mammals do this. Make sure that children know in feedback that special mammals called 'monotremes' do lay eggs. There is currently debate about the taxonomy of Monotremes.	



question	answer	marks	notes
5. Fill in the	blank space of this lifecycle of a whale.		
	EmbryoFoetus	1	Accept errors in spelling where the intention is clear.
6. There are	three types of mammals. Fill in the table below w	rith more d	etail:
	Marsupials Monotremes Placentals		
	a) What type of mammal is a kangaroo? A kangaroo is a Marsupial.	3	1 mark for each correct answer.
	b) A Joey c) they have a pouch (where the baby is kept after birth).		
7. Complete	the blanks on Amphibians and Insects.		
	An animal with a backbone is called a <u>vertebrate</u> whilst an animal without a backbone is called an <u>invertebrate</u> .	1	1 mark for both correct answers with recognisable spelling.
8. What is n	netamorphosis?		
	Animals that change to a different thing in their life cycle	1	Accept more complicated explanations with KS3 definitions.
9. How do a	mphibians metamorphose?		
	They start life in the water and change into an adult that lives on land (and in water)	1	
10. Explain	how insects metamorphose.		
	From Larva/e to insect/s	1	Include more complicated explanations that give examples but include these basic facts. Accept 'grub' or other word describing the larva stage, but make sure the word larva is reiterated in feedback as the scientific/correct word.



question	answer		marks	notes				
11. What grows inside a fertilised bird's egg?								
	embryo		1	Do not accept 'baby chick' or similar as children need to use the correct scientific word in this case.				
12. What happens if an egg is not fertilised?								
	• There i	ck can develop s no embryo chick cannot be made eat it	1					
13. Number these stages in order they come in the life cycle of a bird.								
	Number			0 marks for 0-1 correct 1 mark for 2-4 2 marks for 5 correct				
	3	Egg hatches and adults provide food	2					
	2	A fertilised egg is laid by the female						
	4	The chick grows and develops						
	5	The young bird leaves the nest						
	1	The adults mate and reproduce						



question	answer			marks	notes				
14. Fill in this table of similarities and differences with one example for each box.									
i 4. Fill in U	Bird and Amphibian	Similarity Any from: Most adults can live on land (eg. Not whales) Lay eggs Vertebrates Omnivorous (Most have sexual reproduction) Any example from Mrs Gren Both in Animal Kingdom in taxonomy Both Eukaryota Domain in taxonomy Any from:	Difference Any from: • Amphibians start life in water • Adults amphibians live on land and in water • Bird lay hard-shelled eggs, amphibians have soft-shelled eggs. • Warm/ cold-Kingdom in blooded taxonomy	er each box	O marks for 0-1 boxes correct 1 mark for 2 boxes correct 2 marks for 4 boxes correct 3 marks for 6 boxes correct 4 marks for 8 boxes correct 5 marks for 10 boxes correct 6 marks for 12 boxes correct There are many differences, so also include any others you know are correct.				
	Bird and Mammal	parents) Any example from Mrs Gren Both in Animal Kingdom in taxonomy Both Eukaryota Domain in taxonomy Warm blooded vertebrates taxonomy both are animals both can be pets both reproduce both can be eaten 4 chambered hearts	invertebrates Mammals are warm-blooded, insects are cold-blooded. Live young/lay eggs Baby grows inside the mother/grows inside the egg. Feathers v. fur/hair Hollow bones/not hollow bones Teeth/no teeth Flying can only be a difference of bats are noted as being an exception.						
	Amphibian and Insect	Metamorphosis both reproduce both can be eaten cold-blooded (most insects are) lay eggs taxonomy both are	 insects don't have lungs gills on amphibians vertebrate/invertebrate most insects have 6 legs Fur/hair v. no fur/hair						
	and Amphib- ian	animals both can be pets both reproduce both can be eaten	amphibians cold- blooded gills on amphibians						
	Bird and Insect	Lay eggs both can be eaten both can(some) have wings/fly light bodies	 insects don't have lungs vertebrate/invertebrate most insects are cold-blooded 						
				total 25					