

KS3 Science

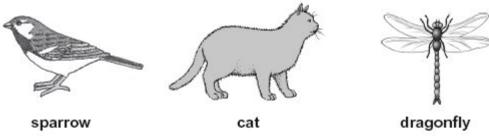
Classification

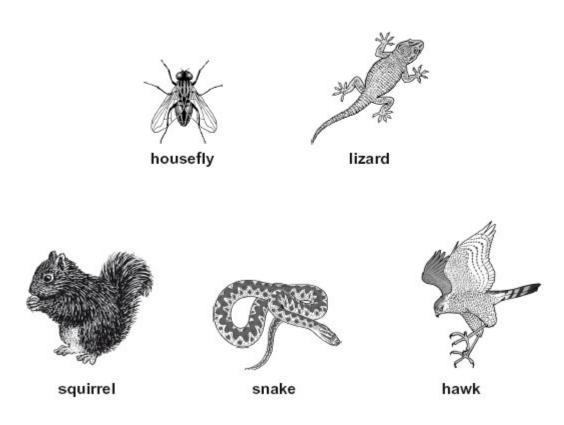
Question Paper

Time available: 39 minutes Marks available: 61 marks

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1. The drawings below show eight different animals.





not to scale

(a) Put a (ring) around the **two** animals above that do **not** have a backbone.

2 marks

(b) What are the names of **two** mammals above?

1

2

	(c)	(i)	What are the names of two reptiles above?	
			1	
			2	
				1 mark
		(ii)	From the drawings, what is one feature that all reptiles have?	
				1 mark
				maximum 5 marks
2.	The	drawi	ing below shows the remains of an animal found in a rock.	
		5		
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			3771/15	
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	(a)	Som	ne scientists think the animal in the drawing above was a bird.	
		(i)	Give one feature of the animal above that suggests it was a hird	

	Other scientists think the animal was a reptile.	
	(ii) What are reptile skins covered with?	
		1 mark
(b)	The animal lived millions of years ago. Scientists used the remains to draw what they think the animal looked like when it was alive.	
	Why can scientists not be certain that the animal looked like the drawing above?	
		1 mark
(c)	Give the name for the remains of living things found in rocks.	

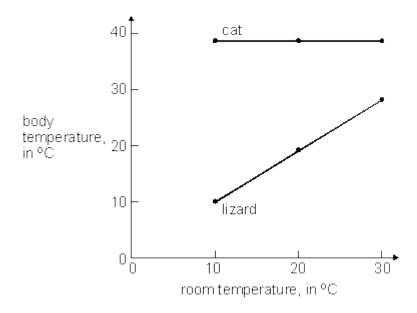
(a)	The remains of living things are not found in rocks made from lava. Why does lava destroy the remains of living things?	
		1 mark maximum 5 marks
The	picture below shows a mammal called an otter.	
No.		
(a)	Give one feature that only mammals have.	
		1 mark
(b)	Otters live by rivers.	
	Give one way the otter is suited for swimming. Use the picture above to help you.	
		1 mark
(c)	Otter cubs are born in a burrow under the ground.	
	(i) How does this help the otter cubs survive?	
		1 mark

3.

	(ii)	Why must the burrow be above the level of the water in the river?	
			1 mark
(d)	Otte	rs catch fish and birds for food.	
		ch word below describes an otter? the correct box.	
		herbivore predator	
		prey producer	1 mark
(e)	The	information below describes what some animals eat.	
	•	Insects eat plants.	
	•	Birds and fish eat insects.	
	•	Otters eat fish and birds.	
		nplete the food web using this information. box has been done for you.	
		→ otters	
			2 marks
(f)		ne 1960s, the number of otters in England decreased. Increase otter numbers, scientists released otters in pairs (one male and one female).	
	Why	were the otters released in pairs?	
			4

4.

A vet measured the body temperatures of a cat and a lizard at different room temperatures. She drew two graphs from her results.



(a) The temperature of the room rises. What happens to the body temperatures of the lizard and the cat?

(i) lizoro		
	(i)	lizard

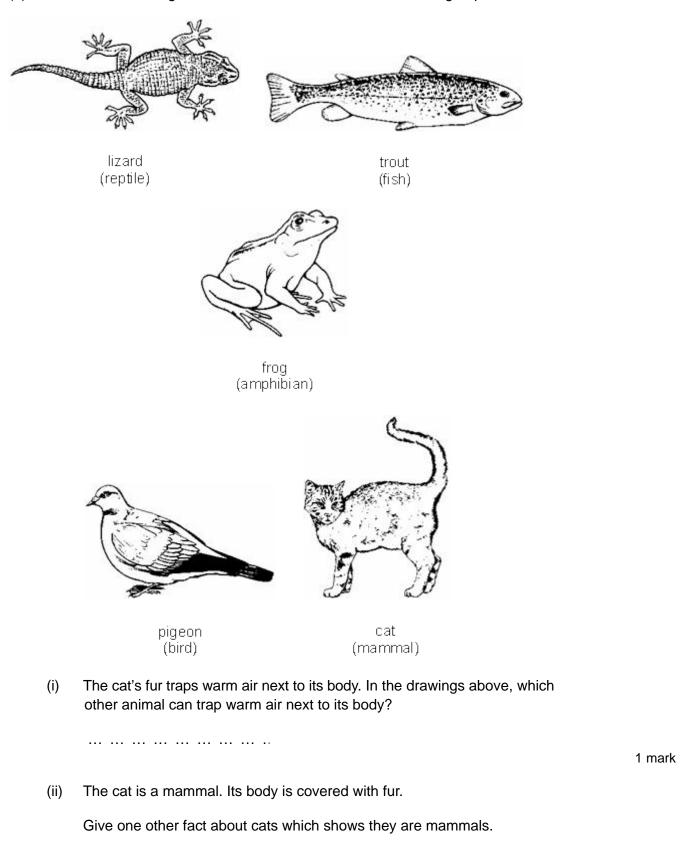
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1 mark

(ii) cat

• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	 • • •	

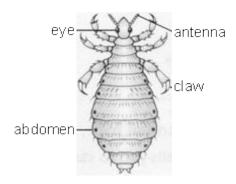
(b) Each of the drawings below shows an animal from a different group.



(c) The five groups of vertebrates are:

	fish	amphibians	reptiles	birds	mammals	
(i)	Which two	groups have bodie	es covered with	h scales?		
	1					
	2					
						2 marks
(ii)	Which two	groups lay eggs ir	n water?			
	1					
	2					2 marks

- **5.** Head lice are insects which cling onto a person's hair.
 - (a) The drawing below shows a head louse.



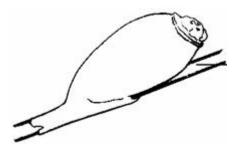
20 x actual size

Which part,	labelled c	n the draw	ing, does	the head	d louse use	e to cling c	nto a hair?

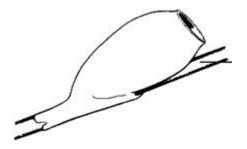
1 mark

Maximum 8 marks

(b) Head lice lay eggs and stick them to hairs. Each egg has an egg case around it.



human hair case with head louse egg inside



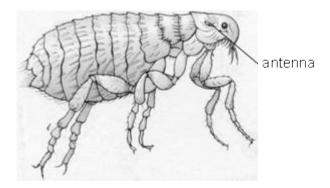
human hair empty egg case

20 x actual size

(i)	Why must the egg cases be stuck firmly to the hairs?	
		1 mark
(ii)	Special shampoos kill head lice after they hatch out. Why is it difficult to kill head lice before they hatch out?	
		1 mark

(c) Cat fleas are insects that live on the skin of a cat and suck the cat's blood.

The drawing below shows a cat flea.



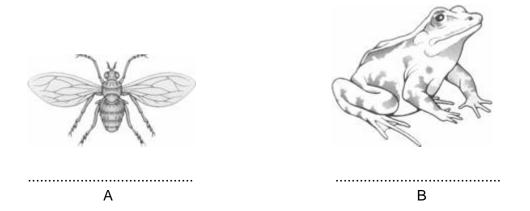
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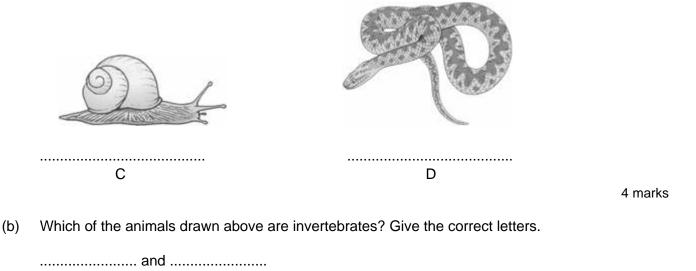
Draw a line from each fact about the cat flea to the way it helps the flea to survive. Draw only **three** lines.

	fact about the cat flea	way it helps the flea to survive	
	•	so that it can suck a cat's blood	
	It has long legs.	so that it can jump from one cat to another	
	It has a narrow body.	so that it can move easily through a cat's fur	
	It has a pointed mouth. ● ●	so that it can keep warm	3 marks
d)	Many insects have parts of the boo What are these parts called?	dy which cat fleas do not have.	o mane
			1 mark
			Maximum 7 marks

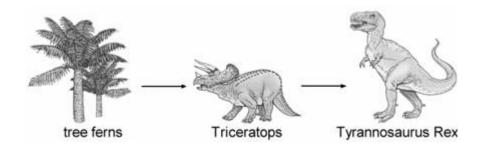
- **6.** Each of the animals in the drawings below belongs to a different group.
 - (a) On the line beneath each drawing, write the name of the group the animal belongs to. Choose names from the list below.

amphibians crustaceans insects mammals molluscs reptiles





The drawing shows a food chain including plants called tree ferns, and two dinosaurs.They lived on Earth millions of years ago.



(a) The list below shows words which describe living things in a food chain.

	herbivore	predator	prey	producer	
(i)	Which word in the	he list above de	escribes the	tree fern?	
				•	1 mark
(ii)	From the list abo	ove, give one w	vord that ca	an describe Tyrannosaurus rex.	
				•	1 mark
(iii)	From the list ab	oove, give one v	word that ca	an describe Triceratops.	
					1 mark

2 marks

Maximum 6 marks

(b)	Some scientists think that a large rock from space hit the Earth about 65 million years ago. A thick layer of dust stayed in the air for a long time and blocked out the sunlight.							
		This would cause a decrease in the number of tree ferns. Give one way the decrease in tree ferns would affect the Triceratops.						
						1 mark		
(c)		did it belong to?	cales covering its bo	ody.				
	amphibians		fish					
	reptiles		mammals		Maxim	1 mark um 5 marks		
	-	six living things.	water					
THE	y spend all of pa	art of the time in	water.					
	tadpole A		trout B		duck C			
	crocodile D		water vole E		frog F			
					not to scale			
	Look at the drawings.							
(a)	(i) Give the letter of one living thing that uses gills to take in oxygen.							
	•••••					1 mark		

8.

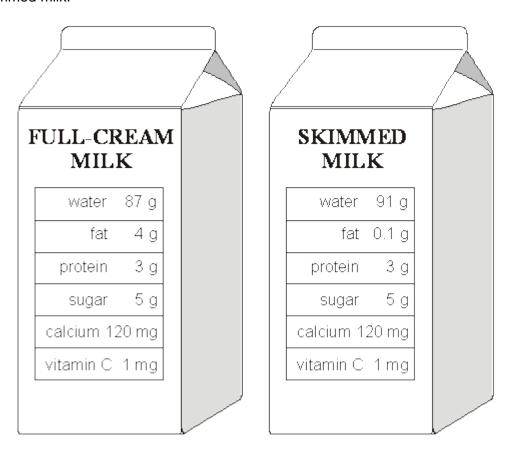
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(ii) Give the lette	r of one living	g timig that is				
						1
Use a word from th	e list below to	o fill the gap	in the sentence.			
lungs	legs	eyes	backbones			
The trout, duck, cro	ocodile, water	r vole and fr	og are all called	vertebrates t	oecause	
they have						1
The trout spends a	l of its time in	ı water.				1
Give one way the t			in water			
						1
Draw a line from ea Draw only three lin		elow to the g	roup it belongs t	o.		1
Draw only three lin		elow to the g		O.		1
Draw only three lin		elow to the g	group	o.		1
Draw only three lin		elow to the g	group	o.		1
Draw only three lin		elow to the g	group reptiles	o.		1

2 marks maximum 6 marks

The drawings show the amounts of different substances in 100 g of full-cream milk and 100 g of skimmed milk.

9.



(a) Use the information in the drawings to complete the sentence.

When	skimmed milk is	made from	full-cream	milk, mos	st of the
		is take	n out		

1 mark

(b) (i) Look at the drawings.

Which substance in milk do we need for strong bones and teeth?

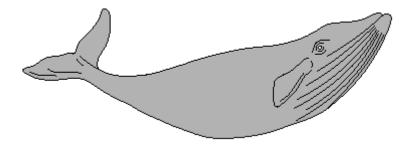
1 mark

(ii) How are substances carried around the body?

.....

	(c)	(1)	Tick the correct bo		their young?	
			amphibians		birds	
			mammals		reptiles	1 mark
		(ii)	A baby fed on its r What is the reason Tick the correct bo	n for this?	fewer infections.	
			The milk contains	antibodies.		
			The milk contains	water.		
			The milk is at bod	y temperature.		
			The milk is a liquid	i .		1 mark maximum 5 marks
0.	(a)	The	drawing below show	ws a fish.		
		Lool	cat the drawing of a	a fish.		
		Des	cribe two ways in w	hich a fish is suite	d to swimming.	
		1				
		2				 2 marks

(b) The drawing below shows a blue whale.



not to scale

A long time ago people thought that the blue whale was a fish. Now we know that the blue whale is a mammal.

	Give one way mammals are different from fish.	
		1 mark
(c)	A hundred years ago there were 350 000 blue whales. Now there are only about 10 000 blue whales. Suggest why the blue whale population has decreased.	

1 mark

(d) The blue whale is now a protected species. Scientists catch and tag the whales with a transmitter. Satellites can be used to track the tagged whales.



(i)	What information about whales can scientists be certain to get from a satellite tracking system? Tick the correct box.					
	what food they eat					
	how often they give birth					
	where they travel					
	the sex of the whale					
			1 mark			
(ii)	Give one advantage of using a satellite t	tracking system to track whales.				
			1 mark			
			maximum 6 marks			