

KS3 Science

Classification and Keys

Mark Scheme

Time available: 40 minutes Marks available: 62 marks

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Mark schemes

1.

(a) (i) • blackbird and robin

both answers are required for the mark answers can be in either order

1 (L3)

(ii) • 2

accept 'blue tit and sparrow'

1 (L3)

(iii) • seeds

1 (L3)

(iv) • robin

1 (L3)

(b) • feathers

accept 'down' 'fat' is insufficient

1 (L3)

- (c) any one from
 - to feed their young

accept 'they are more active'
'it needs more energy' is insufficient
'they have babies' is insufficient
'to (help them) reproduce' is insufficient
do **not** accept 'to feed the eggs'

to produce eggs

accept 'to make eggs' or 'collect nesting materials' accept 'to keep eggs warm' accept 'to attract mates' do not accept 'there is less food in winter' do not accept an answer indicating that birds are born

1 (L4)

[6]

2.

		(ii) any two from		
		different climate		
		• disease		
		 not enough food accept 'no food' or 'they starved or 'competition for food' references to old age are insufficient 		
		 shot or run over or trapped or poisoned accept 'people killed them' 		
		injury due to fighting		
		different habitat	2 (L4)	
	(d)	any one from		
		they have fur or hair 'they are warm-blooded' is insufficient		
		they have external ears accept 'they give birth to live young' accept 'they feed their young on milk'	1 (L4)	[8]
3.	(a)	(i) vertebrates do not accept 'vertebrae'	1 (L5)	
		(ii) reptiles	1 (L5)	
	(b)	any one from		
		so that it can bend		
		to allow movement	1 (L5)	

- (c) any **one** from
 - to stop the bones rubbing together accept 'it reduces friction'
 - to stop bones getting worn down
 - to cushion the bones
 accept 'it can be squashed'
 accept 'it absorbs shock'

1 (L5)

(d) the biceps contracts the triceps relaxes

both answers are required for the mark

1 (L6)

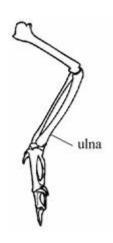
[5]

4. (a) vertebrates

accept 'animals with backbones' do **not** accept 'warm blooded'

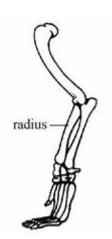
1 (L5)

(b) (i)

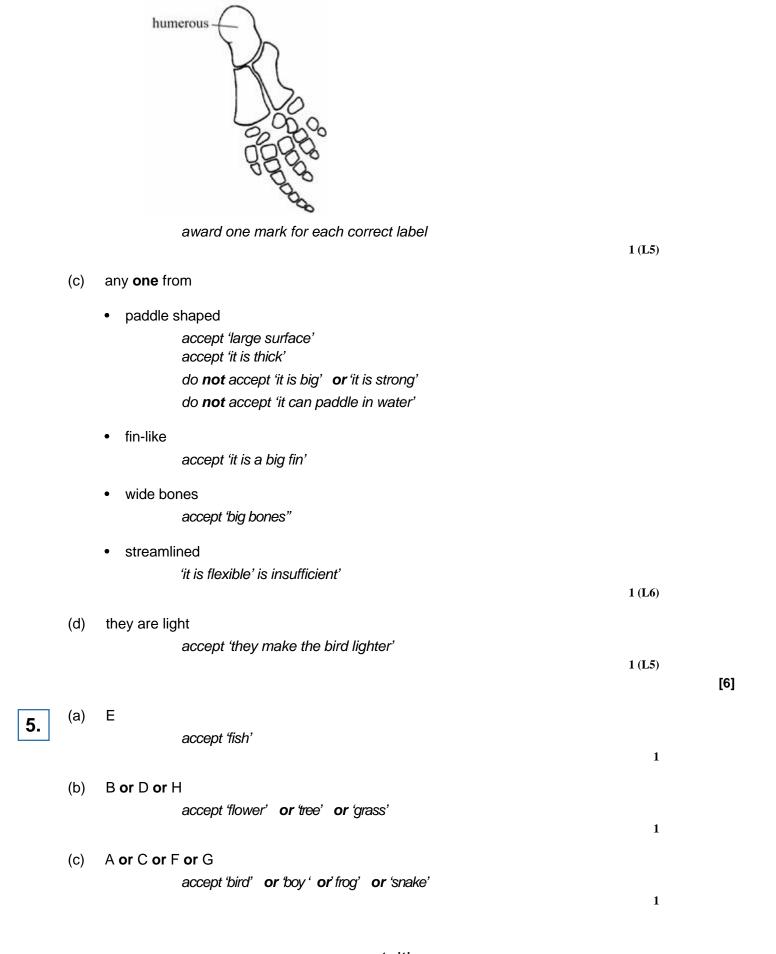


1 (L5)

(ii)



1 (L5)



(iii)

	(d)	answers may be in either order E		
		accept 'fish'	1	
		F accept 'frog'	1	
	(e)	answers may be in either order E		
		accept 'fish'	1	
		G accept 'snake'	1	[7]
6.	(a)	2	1 (L3)	
	(b)	1	1 (L3)	
	(c)	4	1 (L3)	
	(d)	3	1 (L3)	[4]
7.	(a)	All vertebrates have a backbone if more than one box is ticked, award no mark	1 (L3)	
	(b)	(i) it had fur or hair accept 'it has ears on the outside of its body'		
		do not accept 'it has a coat'	1 (L3)	

- (ii) any one from
 - they produce milk to feed the young
 accept 'they suckle' or 'they feed ' their young with milk
 - they give birth to live young
 accept 'they give birth' or 'they do not lay eggs'
 - they have mammary glands
 accept 'they have teats'
 accept 'they have fur' or 'they have ears on the outside
 of their bodies' if not given as the answer to part (b) (i)
 do not accept 'they are warm blooded'

1 (L3)

(c) (i) amphibians

1 (L3)

(ii) it has strong **or** big **or** long legs

1 (L3)

- (iii) any **one** from
 - it has webbed feet
 accept 'it has flippers' or 'it has big feet'
 - it has strong back legs
 accept 'it is smooth skinned' or 'it is streamlined'
 do not accept 'it has paddles'

1 (L3)

- (d) any **one** from
 - the eggs do not have a shell accept 'they only have jelly around them'
 - they would dry out on land accept 'to keep the jelly wet'
 - they are fertilised in water
 - tadpoles can live only in water accept 'tadpoles have gills' do not accept 'tadpoles hatch from the eggs' or 'tadpoles need water' or 'so tadpoles can live' do not accept 'to protect them from predators'

1 (L5)

[7]

8.	lette	r of sp	pider name of spider		
		Α	Orb Weaving Spider accept 'orb weaving		
		В	Jumping Spider	1 (L4)	
			accept 'jumping'	1 (L4)	
		С	Wolf Spider accept 'wolf'		
		D		1 (L4)	
		D	House Spider accept 'house	1.7.4	
				1 (L4)	[4]
9.	(a)	(i)	mayfly nymph accept 'mayfly' or 'nymph'		
		(ii)	water beetle	1 (L4)	
		(11)	accept beetle	1 (L4)	
		(iii)	lymnaea	1 (L4)	
	(b)	(i)	E	,	
			if more than one letter is given award no mark accept 'tubifex'		
		(ii)	A	1 (L4)	
		` '	accept 'mayfly nymph	1 (L4)	
			В		
			accept 'water beetle'		
			answers may be in either order	1 (L4)	[6]

10.	(a)	(i)	seal		1 (L3)	
		(ii)	any one from			
			• musk ox			
			• seal		1 (L3)	
		(iii)	hedgehog		1 (L3)	
	(b)	Fem	ale mammals produce milk to f	eed their young. 🗸	1 (L3)	
	Young mammals develop inside their mother's body. 🗸			ir mother's body. 🇸	1 (L3)	
	Mammals have hair on their bodies. 🗸		. √	1 (I 2)		
			if more than three boxes one mark for each incor minimum mark zero		1 (L3)	
						[6]
11.	Α	Ever	nia	accept spelling errors	1	
	С	Usne	ea	both words required	1	
	D	Parn	nelia saxatillis	accept 'P saxatillis	1	
						[3]

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