



2011 Science

Standard Grade Foundation

Finalised Marking Instructions

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2011 Science – Standard Grade

Foundation Level

Marking Scheme

Please note that **FRACTIONAL** marks should **NOT** be awarded for responses to questions on this paper.
 Please note that where a question specifies circling or underlining, other forms of clearly indicating a response are acceptable.

		Space for Notes	
1	(a) 12 and 13 both required	PS1	Any order.
	(b) Infra-red radiation and security light	PS1	All 4 key words required, any order.
2	(a) C (37°C)	KU1	
	(b) Food Shiver 1 mark each	KU2	
3	Liquid(s) Solid(s) Gas(es) All correct 1 mark	KU1	
4	Flat head Carrion Crow Curved beak Rook All correct, 2 marks 2, 3 correct, 1 mark	PS2	Full answers as shown required.

			Space for Notes
5	3 (hairdryer)	KU1	
6	(a) Services	PS1	Apply cancelling errors.
	(b) Industry	PS1	Apply cancelling errors.
7	(a) (Insulated) cups Packaging Both required	KU1	Any order.
	(b) (Water) pipes (Electrical) wiring Both required	KU1	Any order.
8	(a) (i) A	KU1	
	(ii) C	KU1	
	(b) B (pumps blood around the body)	KU1	
	(c) Any one from Idea of: Obesity, poor diet, lack of exercise, inherited factors, stress Idea of: <u>too much</u> alcohol	KU1	<u>Not</u> drugs/solvent abuse <ul style="list-style-type: none"> • smoking (given) • air pollution

				Space for Notes	
9	(a)	3 and 4	Both required	PS1	
	(b)	Idea of: If light or dark makes a difference		PS1	
10	(a)	(i)	Increases	PS1	
		(ii)	Any one from As exercise or time increases, (lung) pressure decreases (or vice versa) As volume (of air) increases, (lung) pressure decreases (or vice versa)	PS1	Do <u>not</u> accept conclusion given in (a) (i). However, do <u>not</u> penalise if this information is given in addition to a correct conclusion.
	(b)	Any answer between 2400 and 2750		PS1	
11	(a)	(i)	4 (water)	KU1	
		(ii)	3 (smoke)	KU1	
		(iii)	1 (metal)	KU1	
	(b)	Conservation		KU1	

			Space for Notes						
12	<p>(a) Any one from</p> <p>Seaweed → chiton → rock cod → sea anemone or Seaweed → chiton → shrimp → sea anemone or Seaweed → chiton → crab → seagull</p>	KU1							
(b)	<p>(i) Consumer</p> <p>(ii) Prey</p> <p>(iii) Seaweed</p>	<p>KU1</p> <p>KU1</p> <p>KU1</p>							
13	<table border="1"> <tr> <td>ice bursting pipes</td> <td></td> <td>car dented in crash</td> </tr> <tr> <td>road tar melting</td> <td>rats chewing cables</td> <td>football breaking window</td> </tr> </table> <p>All correct, 3 marks 3, 4 correct, 2 marks 2 correct, 1 mark</p>	ice bursting pipes		car dented in crash	road tar melting	rats chewing cables	football breaking window	KU3	
ice bursting pipes		car dented in crash							
road tar melting	rats chewing cables	football breaking window							

			Space for Notes
17	Plastic ear pieces Flexible rubber tubing Large closed bell Small open bell	PS2 All correct, 2 marks 2, 3 correct, 1 mark	
18	(a) (Are the only mammal which) can fly	PS1	
	(b) They roost (together) or They hang upside down (in dark sheltered places)	PS1	
	(c) 50	PS1	
	(d) Moth(s)	PS1	Apply cancelling errors.
19	600 (Electric) Can opener Breadmaker 500 200	PS2 All correct, 2 marks 3, 4 correct, 1 mark	
	(b) 3 bars drawn to the correct height <u>and</u> labelled, 2 marks 2 bars drawn to the correct height <u>and</u> labelled, 1 mark Tolerance +/- 1/2 small square	PS2	<ul style="list-style-type: none"> • Full labels as in table • Allow carry forward error from part (a) • Check page 21

				Space for Notes
20	Painting and galvanising	1 mark each	KU2	Any order
21	(a) Brown Neutral	1 mark each	KU2	Do <u>not</u> accept 'natural' for neutral
	(b) Fuse or cable grip		KU1	
22	(a) 70		PS1	
	(b) 100		PS1	
23	(a) As (% of) fibre increases, the strength increases (or vice versa)		PS1	<u>Not</u> 'units' on its own <u>Not</u> 'percentage' on its own
	(b) 40		PS1	

[END OF MARKING INSTRUCTIONS]