

2010 Science

Standard Grade Foundation

Finalised Marking Instructions

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2010 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 <u>underlining</u>, other forms of clearly indicating a response are acceptable.

				Space for Notes
1	(a)	94 and 90 both required, any order	PS1	
	(b)	food and enzymes and digestion all required, any order	PS1	
2		Lung cancer, heart disease, bronchitis	KU2	
		All three correct 2 marks Two correct 1 mark any order		
3	(a)	Any one from Metal Garden waste Plastic Cardboard Ashes Food Clothes	KU1	Not: glass or paper (given) Not: named plastic or metal Not: named objects only eg cans Ignore additional information eg metal (cans)
	(b)	Idea that it can be used again	KU1	

					Space for Notes
4		paired bladders sm	ooth fronds	PS2	Full answers as shown
		egg wrack	toothed wrack		
			All 4 correct, 2 marks 2, 3 correct, 1 mark		
5	(a)	3 (Food mixer)		KU1	
	(b)	2 (Oven)		KU1	
6	(a)	25		PS1	
	(b)	20		PS1	Accept: correct answer from space for working Ignore: transcription error
7	(a)	2		KU1	
	(b)	4		KU1	

				Space for Notes
8	(a)	Meat (or alternative eg chicken, fish, protein, beans) Bread or Cereals (or carbohydrates eg pasta, wheat, starch) 1 mark each	KU2	Not: sugar fats water
	(b)	Obesity, anorexia, heart disease, bulimia, high blood pressure	KU1	
9	(a)	1 and 4	PS1	
	(b)	The idea of investigating the height the tennis ball is dropped from eg if the height makes any difference	PS1	
10	(a)	Stays the same	PS1	
	(b)	200	PS1	Accept: correct answer from space for working Ignore: transcription error
11	(a)	A (water and shelter)	KU1	
	(b)	4	KU1	

				Space for Notes
12	(a)	4	KU1	
	(b)	2	KU1	
13		C (tobacco smoke)	KU1	
14	(a)	(Crude) oil	KU1	
	(b)	Idea that fossil fuels are finite/will run out/are non-renewable	KU1	Not: less pollution
	(c)	Oxygen	KU1	
15		Pattern dial	PS2	
		Metal canister spray trigger 3 correct, 2 marks 2 correct, 1 mark		

				Space for Notes
16	(a)	1 Are slow (moving) 2 Have no defences/defenceless both ideas required	PS1	
	(b)	43	PS1	
	(c)	Unpleasant substance or Tastes bad	PS1	
	(d)	Do not have to use (toxic) pesticides	PS1	
17	(a)	2	PS1	
	(b)	Iron	PS1	
	(c)	150 2 marks 75(%) 1 mark	PS2	Accept: correct answer from space for working Accept: 75 from space for working for 1 mark Ignore: transcription errors
18	(a)	Electrical conductivity	KU1	
	(b)	Strength	KU1	
	(c)	Thermal conductivity	KU1	

					Space for Notes
19	(a)	Wind Waves Geoth Tidal Bioma		KU2	Accept "water" but <u>not</u> with waves or tidal or hydro eg waves and water 1 mark only
	(b)	(i)	Idea of as light intensity increases, voltage increases (or vice versa)	PS1	
		(ii)	28	PS1	
		(iii)	40	PS1	
20		Germa France UK Italy		PS2	Ignore: units added to table
	(b)	1, 2 ba No lal	with correct labels, 2 marks ars with correct labels, 1 mark pels, zero marks t errors carried forward from part (a)	PS2	

				Space for Notes
21		В	KU1	
22		Triangles	KU1	
23	(a)	Crabeater seal and emperor penguin both required	KU1	
	(b)	Any one from	KU1	
		Icefish Toothfish		
	(c)	Either	KU 1	
		Plankton \rightarrow krill \rightarrow toothfish \rightarrow emperor penguin		
		or		
		Plankton → squid → toothfish → emperor penguin		
	(d)	Sun (light)	KU1	

24 (a)			
	Idea of as age increases, (daily) energy needs increase	PS1	
(b)	Any value between 1900 and 2100	PS1	
25	<u>Idea of</u> as distance (between birds' nests) increases, number of nests attacked (by weasels) decreases (or vice versa)	PS1	

[END OF MARKING INSTRUCTIONS]