
SCIENCE

1113/02

Paper 2

For Examination from 2012

SPECIMEN MARK SCHEME

45 minutes

MAXIMUM MARK: 50

This document consists of **5** printed pages and **1** blank page.

Question	1		
Part	Mark	Answer	Further Information
(a)	1	indicators	
(b)	1	blue	
(c)	1	purple	
(d)	1	sodium hydrogencarbonate	
Total	4		

Question	2		
Part	Mark	Answer	Further Information
(a) (i)	3	6 correctly drawn bars	6 correct bars = 3 marks 4 or 5 correct bars = 2 marks 2 or 3 correct bars = 1 mark 0 / 1 correct bars = 0 mark
(ii)	1	20	
(b)	1	second two boxes ticked	if first box ticked = 0 mark both correct = 1 mark
(c)	2	idea of colonising new areas idea of reducing competition	
Total	7		

Question	3		
Part	Mark	Answer	Further Information
(a)	1	The Earth spins on its axis once every 24 hours.	
(b)	1	both Luca and Anya	
(c)	1	Earth and Jupiter underlined	if three or more names underlined = 0 mark
Total	3		

Question	4		
Part	Mark	Answer	Further Information
(a)	1	D	
(b)	1	A	
(c)	1	B	
Total	3		

Question	5		
Part	Mark	Answer	Further Information
(a)	2	has steel wire / should have copper wire introduces another variable / changing too many things	
(b) (i)	2	table has 2 ruled rows and 7 ruled columns (or vice versa) + each column or row headed with units all values correctly entered	all correct = 2 marks 2 errors = 1 mark more than 2 errors = 0 mark accept converse
(ii)	1	the more coils, the greater the mass of iron filings	
(iii)	1	15 coils/23 g	
(iv)	1	repeat the experiment	
Total	7		

Question	6		
Part	Mark	Answer	Further Information
(a) (i)	1	the wolf is bigger / has a more powerfully built body / larger head / jaws or vice versa	Allow any feature visible on the diagrams.
(ii)	1	They are distinct and cannot interbreed. / They do not produce fertile offspring.	
(b) (i)	1	Variation / diversity	Accept the converse.
(ii)	2	Domestic dogs have been bred by people. People have selected characteristics.	
Total	5		

Question	7		
Part	Mark	Answer	Further Information
(a)	1	movement/kinetic	
(b)	1	heat/thermal	
(c)	1	light	
(d)	1	light	
(e)	1	potential	
Total	5		

Question	8		
Part	Mark	Answer	Further Information
(a) (i)	2	cabbage – caterpillar – bird – snake	if order reversed = 1 mark
(ii)	1	bird / snake	
(iii)	1	cabbage	
(b)	1	go down (less food) / stay the same (eat other things)	Accept either or both alternatives.
Total	5		

Question	9		
Part	Mark	Answer	Further Information
(a) (i)	1	exothermic	
(ii)	2	sodium hydroxide hydrogen	
(b)	2	burning neutralisation	if 3 ticks = 1 mark
Total	5		

Question	10		
Part	Mark	Answer	Further Information
(a) (i)	1	A	
(ii)	1	B	
(b)	1	heat / warm	
(c) (i)	1	C	
(ii)	1	diffusion	
(iii)	1	they are moving / in motion	
Total	6		

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