

## Cambridge International Examinations Cambridge Primary Checkpoint

**SCIENCE** 0846/01

Paper 1

For Examination from 2014

SPECIMEN MARK SCHEME

45 minutes

**MAXIMUM MARK: 50** 



Question	1			
Part	Mark	Answer		Further Information
	2			Each correct answer = 1 mark
		definition	life process	
		(responding and reacting)	(sensitivity)	
		(producing young / offspring)	reproduction	
		(turning food into energy)	respiration	
Total	2			

Question	2		
Part	Mark	Answer	Further Information
(a)	2	feature: mottled skin explanation: for camouflage / hide from predators  or feature: eyes above Explanation: see better or feature: flat explanation: hide from predators	Accept blends in / looks like sand / camouflaged.  feature = 1 mark  explanation = 1 mark
(b)	1	method: rod and line explanation: less of this fish removed/caught.	Both correct = 1 mark.
Total	3		

Question	3		
Part	Mark	Answer	Further Information
(a)	1	1 day <b>or</b> 24 hours <b>or</b> 23 hours 56 minutes	
(b)	1	The Sun does not move. ✓	If more than one box ticked = 0 marks
		The Sun goes round the Moon.	
		The Sun orbits the Earth	
		The Sun travels round the Earth.	
Total	2		

Question	4		
Part	Mark	Answer	Further Information
(a)	1	(idea of) close / operate / press the switch	
(b)	2		2 cells and 2 lamps and 1 switch = 2 marks  1 cell and 2 lamps and 1 switch = 1 mark  2 cells and 1 lamp and 1 switch = 1 mark  2 cells and 2 lamps and no switch = 1 marks  Accept switch open or closed
Total	3		

Question	5		
Part	Mark	Answer	Further Information
	3	They are made of <b>metal</b> .  The wires are covered in <b>plastic</b> .  Any material that is a non-conductor is an <b>insulator</b> .	Accept named materials e.g. copper  Accept rubber / insulator  Each correct sentence = 1 mark
Total	3		

Question	6		
Part	Mark	Answer	Further Information
(a)	1	tighten the drum skin  slacken the drum skin  strike the drum harder  strike the drum softer	If more than one box ticked = 0 marks
(b)	3	Sound can travel around corners.  Sound can spread out in all directions.  Sound cannot travel through solids.  Sound can travel through liquids.  Sound can travel in a vacuum.	5 correct = 3 marks 3 or 4 correct = 2 marks 2 correct = 1 mark  If 2 boxes ticked for a statement = 0 marks for that statement
Total	4		•

Question	7		
Part	Mark	Answer	Further Information
(a)	1	turns into a liquid	Accept turns into salt solution / salt water
(b)	1	0 (°C)	
(c)	1	The <b>greater/higher</b> the mass of salt in the solution the <b>lower</b> the melting point.	Accept the smaller/lower the mass of salt in the solution the higher the melting point
(d)	1	-5 (°C)	Accept 4 g / grams
(e)	1	make results more reliable / to check results	Accept to make sure the results are reliable  Do not accept to make the results more accurate
Total	5		. Sound more decurate

Question	8		
Part	Mark	Answer	Further Information
(a)	2	C, D, B in that order	3 correct = 2 marks
			2 correct = 1 mark
			1 correct = 0 marks
(b)	1	A and C	More than 1 answer circled = 0 marks
(c)	1	(pulling force) increases	
Total	4		

Question	9		
Part	Mark	Answer	Further Information
(a)	1	plankton / plant $ ightarrow$ fish $ ightarrow$ penguin	All correct = 1 mark
(b)	2	(leaves)  ightarrow insect  ightarrow (small) bird  ightarrow owl	Correct order = 1 mark  All three arrows in correct
			direction = 1 mark
Total	3		

Question	10		
Part	Mark	Answer	Further Information
(a)	1	16(mm)	Accept 250 g
(b)	2	Any two from:	
		- repeat the investigation	
		- use different size tubes	
		- use different size masses	
		- use longer / shorter pieces of paper	
		- use longer / shorter tubes	
(c)	1	(idea of) less mass / lighter in mass	
Total	4		

Question	11		
Part	Mark	Answer	Further Information
(a)	1	(some) coffee dissolves / a solution is made	
(b)	1	all of the coffee powder is soluble	More than one answer circled = 0 marks
		some of the coffee powder is insoluble	- O marks
		all of the coffee powder is insoluble	
		some of the coffee powder is frozen	
(c)	2	The brown solid on the filter paper is the residue.	Each answer = 1 mark
		The brown solution in the beaker is the <b>filtrate</b> .	Accept mixture instead of filtrate
(d)	1	goes colourless	More than one answer ticked = 0 marks
		becomes a lighter brown	
		stays the same	
		becomes a darker brown ✓	
Total	5		

Question	12		
Part	Mark	Answer	Further Information
(a)	2	Any two from: - same type of seed - height dropped - mass / weight of seed - speed of fan - distance from fan	Each correct answer = 1 mark
(b)	3	distance in cm  distance 5  10  9  8  7  6  4  3  2  1  1  1  1  1  2  3  4  5  6  seed number	All correct = 3 marks  Any 3 correct = 2 marks  Any 2 correct = 1 mark
(c)	1	5	
(d)	1	animal dispersal explosive dispersal self dispersal water dispersal wind dispersal	More than one answer circled = 0 marks
Total	7		

Question	13						
Part	Mark	Answer					Further Information
(a)	2	Mixtu	re chemical		does not	1	4 correct = 2 marks
		Wilxtu	reaction	makes a solution	react or make a solution		2 or 3 correct = 1 mark
		А			✓		1 correct = 0 marks
		В		✓			
		С	✓				
		D		✓			
(b)	1	С					
(c)	1	(idea of) the ingredients chemically reacting to form something else					Accept that it is a chemical reaction/gas given off/bubbles given off
							<b>Do not accept</b> 'it cannot be reversed'
(d)	1	(idea of) evaporating the water to leave the salt behind					Accept heat / boil.
Total	5						

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