

Cambridge International Examinations

Cambridge Primary Checkpoint

SCIENCE 0846/02

Paper 2 October 2016

MARK SCHEME
Maximum Mark: 50



Question number	1		
Part	Mark	Answer	Further Information
	2	a beam of light from a torch	three correct = 2 marks
		a girl unscrewing a jar	one or two correct = 1 mark
		a horse pulling a cart	four or five ticked = 0 marks
		a man pushing a trolley	
		the sound of a drum	
Total	2		

Question number	2		
Part	Mark	Answer	Further Information
	3	plant / producer plankton	each correct sentence = 1 mark
		Sun	Accept sunlight / light
Total	3		

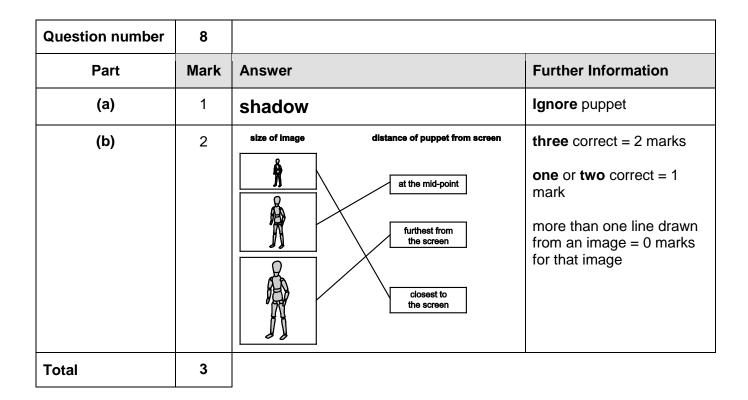
Question number	3		
Part	Mark	Answer	Further Information
(a)	1	(idea that) lamp will light	Accept that the lamp will work / the lamp is bright / lamp turns on
(b)	1	copper	Accept any indication of the correct answer
		glass	more than one answer circled = 0 marks
		plastic	
		wood	
(c)	1	brass	Accept any indication of the correct answer
		gold	more than one answer circled = 0 marks
		silver	
Total	3		

Question number	4		
Part	Mark	Answer	Further Information
(a)	1	flowers can be bright colours flowers close at night leaves are large petals are always small stems bend easily	Accept any indication of the correct answer more than one answer circled = 0 marks
(b)	1	to attract insects	
Total	2		

Question number	5				
Part	Mark	Answer			Further Information
(a)	1	When a string of a guitar vibrates a sound is produced. A unit of loudness of sound is the decibel.	true ✓	false	both needed for mark three or four ticked = 0 marks Accept any indication of the correct answer
(b)	1	Sound travels at the same speed in all solid materials. The speed of sound in space is the same as the speed of sound in air.	true	false ✓	both needed for mark three or four ticked = 0 marks Accept any indication of the correct answer
Total	2				1

Question number	6					
Part	Mark	Answ	er		Further In	formation
(a)	3		mixture	_	thod of aration	four correct = 3 marks two or three correct =
			salt and water	evap	oration	2 marks
			steel powder and lumps of steel	sie	eving	one correct = 1 mark
			sand and water	filtı	ration	
			steel powder and copper powder		gnetic action	
(b)	1	filter	water (and stir) oorate)	all in t	he correct order = 1 mark
(c)	1	,	(idea of) holes in sieve are small enough to let sand through but not		the sie top / o the sie If answ paper	ver is in terms of filter it needs to be clear that
					Accep	oaration is possible of neither will go through aper / the sand and peas b big to go through the aper
Total	5				<u>,</u>	

Question number	7		
Part	Mark	Answer	Further Information
	3	skull elbow elbow hand bone knee cap foot bone	eight correct = 3 marks five, six or seven correct = 2 marks one, two, three or four correct = 1 mark
Total	3		ı



Question number	9		
Part	Mark	Answer	Further Information
(a)	1		Accept any indication of the correct answer more than one answer circled = 0 marks
(b)	2	volume of water time taken 5 10 10 20 15 30 20 35 25 40	all volumes and times in the correct order = 2 marks Accept either ascending or descending order volumes and times in the correct columns but not in the correct order = 1 mark but volume must match correct time
(c)	1	unit(s)	any indication of units of volume or time e.g. cm ³ / s / seconds
Total	4		l

Question number	10		
Part	Mark	Answer	Further Information
(a)	1	animal dispersal insect dispersal self-dispersal water dispersal wind dispersal	Accept any indication of the correct answer more than one answer circled = 0 marks
(b)	1	insect dispersal self-dispersal water dispersal wind dispersal	Accept any indication of the correct answer more than one answer circled = 0 marks
Total	2		

Question number	11		
Part	Mark	Answer	Further Information
(a)	1	A liquid that dissolves a solid is called a solvent .	
(b)	1	A substance that does not dissolve in water is insoluble .	
(c)	1	A substance that dissolves in water is soluble .	
(d)	1	A substance is dissolved in water. This substance is called the solute .	
(e)	1	The mixture of a substance dissolved in water is called a solution .	
Total	5		

Question number	12		
Part	Mark	Answer	Further Information
(a)	1	Earth Jupiter Mars Mercury Venus	Accept any indication of the correct answer more than one answer circled = 0 marks
(b)	1	Earth Jupiter Mars Mercury Venus	Accept any indication of the correct answer more than one answer circled = 0 marks
(c)	1	Earth Jupiter Mars Mercury Venus	Accept any indication of the correct answer both correct = 1 mark more than two circled = 0 marks
Total	3		ı

Question number	13		
Part	Mark	Answer	Further Information
(a)	2	sight to see the rain touch or feel to feel the rain	one mark for each correct answer each correct answer must have the sense and what is sensed
(b)	1	so he can move out of the rain / so he knows he is getting wet	Accept any suitable reaction to rain e.g. use an umbrella / put a coat on / to protect himself
Total	3		

Question number	14		
Part	Mark	Answer	Further Information
	2	statement activity	four correct = 2 marks
		"I think the reading on the light meter will be higher when the	two or three correct = 1 mark
		"The reading for 50 cm is 25 units" Increasing reliability "I should repeat each measurement three times"	one correct = 0 marks
			If more than one line drawn from a statement = 0 marks for that statement
		"I should use the same light source each time"	
Total	2		

Question number	15		
Part	Mark	Answer	Further Information
(a)	1	34 (mm) Accept any answe range 33 – 35 (mm	
(b)	2	roots have branched / roots are divided / roots are bigger / roots are longer	Accept root growth
		there is a stem	Accept there is a shoot
			Do not accept there is a stalk / the seed has sprouted
		there are leaves	Do not accept there are petals
Total	3		

Question number	16				
Part	Mark	Answer			Further Information
(a)	1	melting / melt(s) /	melting / melt(s) / solid to liquid		Accept turns to liquid
					Do not accept it boils / solid to liquid to gas
					Do not accept references to ice / water / steam / water vapour
(b)	1	boiling / boil(s) / liquid to gas			Accept evaporation or turns to gas
					Do not accept it melts / solid to gas / solid to liquid to gas
					Do not accept references to ice / water / steam / water vapour
(c)	3	room	quid at room	gas at room temperature	five correct = 3 marks
		(B)	(E)	(D)	three or four correct = 2 marks
		G	С	н	one or two correct = 1 mark
			A		Ignore extra letters e.g. E in column one
			F		If more than one of a particular letter in table then = 0 marks
					for that letter e.g. letter G in column one and letter G in column two
Total	5				