

Cambridge Primary Checkpoint

SCIENCE 0846/02

Paper 2 April 2020

MARK SCHEME

Maximum Mark: 50

Published

This mark scheme is published as an aid to teachers and learners, to indicate the requirements of the examination. However, we have not been able to adjust it to reflect the full range of answers that would have been seen as a part of the normal moderation and marking process, and it does not necessarily contain all the possible alternatives that might have arisen.

Cambridge will not enter into discussions about the mark scheme.

General guidelines on marking

Many descriptive answers can be expressed in a variety of ways. Professional judgement can be used in these cases, providing it matches the marking points and further information in the mark scheme.

Answers may have words spelt incorrectly. Credit is normally given for phonetically correct answers, unless the word has a scientifically different meaning. For example, where the answer should be antennae, credit will be given for antena but not for anthen (too close to anther).

Only the science is being assessed, so answers do not need to be grammatically correct. Significant figures will be indicated in the question or in the mark scheme.

Unless specified all marking points are independent.

Annotations and abbreviations

/OR alternate responses for the same marking point

() brackets the words or units in brackets do not need to be stated, for example,

(recycles or releases or provides) minerals = minerals scores the mark

Accept an acceptable response

Do not accept indicates an incorrect response that would contradict another otherwise

correct alternative

Ignore indicates an irrelevant answer that is not creditworthy. Full marks can

still be achieved even with answers that are ignored.

Note provides extra information when necessary

Question	Answer	Marks	Further Information
1(a)	reproduction/reproduce	1	
1(b)	to collect light to collect water to help the tree grow to look pretty to make many seeds	1	more than one answer circled = 0 marks

Question	Answer					Marks	Further Information
2	material (carbon dioxide) gasoline mercury	at roo	m tempe erial is a liquid			3	each correct row = 1 mark more than one tick for each material = 0 marks for that row
	nitrogen			✓			

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Question	Answer	Marks	Further Information
3	We must recycle less/ more of our rubbish.	2	all five correct = 2 marks
	We must increase / reduce energy consumption.		three or four correct = 1 mark
	We must drop/pick up litter.		one or two correct = 0 marks
	We must destroy/ protect habitats.		
	We must Clean pollute rivers.		

Question	Answer	Marks	Further Information
4	any two from	2	each correct answer = 1 mark
	thunder is always after lightning		Accept any specific examples e.g. the shortest time difference between the
	(idea of) the time difference between thunder and lightning varies		lightning and thunder was at 11:09
	the time for the thunder decreases then increases		Accept the storm is moving closer then further away

Question	Answer	Marks	Further Information
5	A stem B leaf C root	1	all correct = 1 mark

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Question		Answer	Marks	Further Information
6	process change of	f state	4	every correct match = 1 mark
	gas to I	quid		if a process has been matched to more than one change of state then = 0
	condensation gas to	solid		marks for that process
	evaporation liquid to	gas		
	freezing liquid to	solid		
	melting solid to	gas		
	solid to	iquid		

Question	Answer	Marks	Further Information
7(a)	muscle(s)	1	Accept correctly named muscle
7(b)	X elbow	1	

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Question	Answer	Marks	Further Information
8(a)	does not dissolve (in water)	1	Ignore does not mix with the water
8(b)	any one from	1	
	(idea that) the orange juice does not leak out/the plastic holds the orange juice		
	the plastic does not dissolve into the orange juice		
8(c)	any one from	1	Accept it is see-through
	non-poisonous		
	does not break if dropped		
	low density/light (weight)		
	can be moulded into shape		
8(d)	it can break easily/shatters if dropped	1	Accept heavier

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Question		Answer	Marks	Further Information
9(a)	stage descr	iption	3	four correct = 3 marks
	fertilisation insects m flower t	nove from to flower		two or three correct = 2 marks
	germination happens	in the fruit		one correct = 1 mark
	seed production ovum an			
	pollination shoot and	d root begin to grow		
9(b)	(seed) dispersal		2	each correct answer = 1 mark
	eat the seeds/move the seeds from fur/(idea of) of egestion of seed	m one place to another/seeds stick to their		

Question	Answer	Marks	Further Information
10(a)	A B C D E	1	more than one circled = 0 marks
10(b)	A B C D E	1	more than one circled = 0 marks
10(c)	light intensity meter	1	Accept other correct named pieces of equipment that may vary depending on location

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Question	Answer	Marks	Further Information
11(a)	(plate B)	1	if plate A chosen = 0 marks
	(idea of) loss fot		Ignore healthier
	(idea of) less fat		Accept more vitamins/more minerals
			Accept named vitamins e.g. contains vitamin C
11(b)	high in sugar	1	Accept medium salt

Question	Answer						Further Information
12	The Earth spins on its axis. The Earth takes a year to spin on its axis.	The Earth only spins in the morning. The Earth moves very close to the Sun and then stops.	The Earth orbits the Sun. (The Earth spinning on its axis causes day and night. The Earth takes 24 hours to spin on its axis.	The Earth takes 24 hours to orbit the Sun. The Earth spins to the left and then to the right.	3	each correct tick = 1 mark if more than three ticks are used, follow the guidance: four ticks, three correct = 2 marks four ticks, two correct = 1 mark five ticks, three correct = 1 mark other combinations of four or five ticks = 0 marks six or more ticks = 0 marks

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Question	Answer	Marks	Further Information
13(a)	3	1	Accept rabbit, weasel and owl
13(b)	2	1	Accept weasel and owl
13(c)	2	1	Accept rabbit and weasel

Question	Answer	Marks	Further Information
14(a)	air vibrate(s)/air vibration	1	
14(b)	blow(s) harder	1	

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Question	Answer	Marks	Further Information
15(a)	dissolves	1	
15(b)	colourless	1	Accept clear/transparent/white
			Ignore the same colour as water
15(c)	salt is soluble in water/salt is dissolved in the water	1	Accept idea that the salt passes through the (filter paper) with the water
			Accept because the salt has dissolved
			Do not accept because salt is very small it will go through the filter
15(d)	any two from	2	Accept put the dish in the sun
	heat the solution		
	evaporate water		Accept boil
	a (white) solid is formed		Accept salt is left behind/salt is formed
			Accept heat to get a (white) residue = 2 marks

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Question	Answer	Marks	Further Information
16(a)	cm	1	Accept mm
16(b)	faster it falls/quicker it falls/less time it takes (to fall)	1	Accept shorter the time
16(c)	4 (cm)	1	Accept 2.4
16(d)	any two from	2	Accept other valid answers
	number of paperclips/mass of model seed		
	material of model seed		
	amount of wind		
	length of drop		
	length of seed/width of seed		
	shape of wings		
	number of wings		

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Question	Answer	Marks	Further Information
17	Light comes from the Sun .	2	three correct = 2 marks one or two correct = 1 mark
	This light hits the Earth and is reflected .		
	This light reaches the astronaut on the Moon.		
	The astronaut sees the Earth because the light enters her eyes .		

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