



**Cambridge Assessment
International Education**

Cambridge Primary Sample Test
For use with curriculum published in
September 2020

Science Paper 1
Mark Scheme
Stage 3

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 antenna 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
<u>Underline</u>	exact word is required
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
ecf	error carried forward; marks are awarded if an incorrect response has been carried forward from earlier working, provided the subsequent working is correct
ora	or reverse argument; for example, as mass increases, volume increases could be written as mass decreases, volume decreases

Question	Answer	Marks	Further Information
1(a)	maize locust lizard snake	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence
1(b)	3	1	Accept locust and lizard and snake

Question	Answer	Marks	Further Information												
2	<table border="0"> <thead> <tr> <th>word</th> <th></th> <th>description</th> </tr> </thead> <tbody> <tr> <td>opaque</td> <td>—</td> <td>only some light passes through</td> </tr> <tr> <td>translucent</td> <td>—</td> <td>blocks all the light</td> </tr> <tr> <td>transparent</td> <td>—</td> <td>all light passes through</td> </tr> </tbody> </table>	word		description	opaque	—	only some light passes through	translucent	—	blocks all the light	transparent	—	all light passes through	1	all three lines correct = 1 mark if two lines from a word, and one is incorrect, then 0 marks
word		description													
opaque	—	only some light passes through													
translucent	—	blocks all the light													
transparent	—	all light passes through													

Question	Answer	Marks	Further Information
3	(idea that the) salt dissolves in the water	1	

Question	Answer	Marks	Further Information
4(a)	animal died / animal got buried / animal got squashed	1	Accept plant for animal
4(b)	fossil	1	Accept named fossil

Question	Answer	Marks	Further Information												
5(a)	<table border="1"> <thead> <tr> <th>living</th> <th>once alive</th> <th>never lived</th> </tr> </thead> <tbody> <tr> <td>(bee)</td> <td>bone</td> <td>(stone)</td> </tr> <tr> <td>tree</td> <td></td> <td>scissors</td> </tr> <tr> <td></td> <td></td> <td>plastic bottle</td> </tr> </tbody> </table>	living	once alive	never lived	(bee)	bone	(stone)	tree		scissors			plastic bottle	1	all correct = 1 mark Accept any order Accept plastic or bottle for plastic bottle
living	once alive	never lived													
(bee)	bone	(stone)													
tree		scissors													
		plastic bottle													
5(b)	any one from growth nutrition movement reproduction	1	Accept feed / remove waste / breathe / respire / reacts / excrete / senses												

Question	Answer	Marks	Further Information
6(a)	A and B A and D B and E D and E	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence
6(b)	(idea that) surface C is rougher / roughest	1	


Question	Answer	Marks	Further Information
7(a)	gasoline graphite hydrogen milk	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence
7(b)	carbon dioxide plastic wood water	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence

Question	Answer	Marks	Further Information								
8	<table border="0"> <thead> <tr> <th>part of a plant</th> <th>function</th> </tr> </thead> <tbody> <tr> <td>leaf</td> <td>to keep the plant upright</td> </tr> <tr> <td>root</td> <td>to take water into the plant</td> </tr> <tr> <td>stem</td> <td>to make food using sunlight</td> </tr> </tbody> </table>	part of a plant	function	leaf	to keep the plant upright	root	to take water into the plant	stem	to make food using sunlight	1	all three lines correct = 1 mark if two lines from a part of a plant, and one is incorrect = 0 marks for that part of a plant
part of a plant	function										
leaf	to keep the plant upright										
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Question	Answer	Marks	Further Information
9(a)	10 cm 15 cm 20 cm 25 cm	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence
9(b)	Increasing the distance between the light source and the toy makes the shadow smaller/less .	1	answer must be comparative

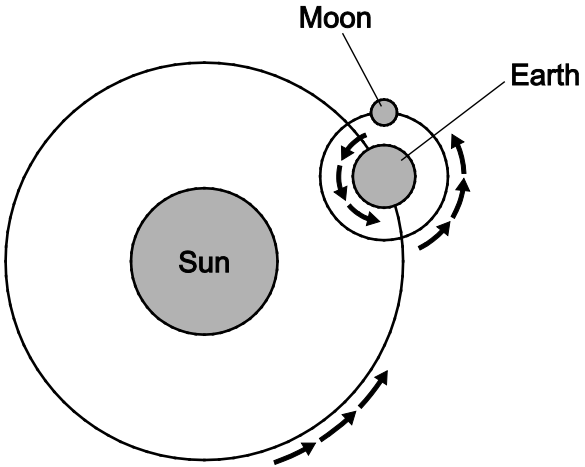
Question	Answer	Marks	Further Information
10(a)	brings oxygen into the body controls everything in the body digests food takes food into the body	1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence
10(b)	made of muscle <input checked="" type="checkbox"/> pumps blood to the lungs <input checked="" type="checkbox"/> stops beating at night <input type="checkbox"/>	1	two correct ticks = 1 mark a tick in the bottom box = 0 marks

Question	Answer	Marks	Further Information
11(a)	The orange juice is a liquid . The ice cube is a solid .	1	both correct = 1 mark
11(b)	The inside of the balloon contains a gas . The outside of the balloon is made of a solid .	1	both correct = 1 mark

Question	Answer	Marks	Further Information
12(a)	 <p style="text-align: center;">horseshoe magnet bar magnet</p>	1	both correct = 1 mark
12(b)	<p>The letter N is the north pole of the magnet.</p> <p>The letter S is the south pole of the magnet.</p> <p>When two S poles are placed next to each other they repel.</p> <p>When a N pole and a S pole are placed next to each other they attract.</p>	2	<p>four correct = 2 marks</p> <p>two or three correct = 1 mark</p> <p>one correct = 0 marks</p>

Question	Answer	Marks	Further Information
13(a)	(idea that) the sand goes between the balls	1	
13(b)	<p>fair testing</p> <p>observing over time</p> <p>pattern seeking</p> <p>research</p>	1	<p>more than one answer circled = 0 marks</p> <p>Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence</p>

Question	Answer	Marks	Further Information
14(a)	<p>The smallest young plant has 2 leaves.</p> <p>The largest old plant has 6 leaves.</p> <p>The prediction is correct / right / true.</p>	1	all three correct = 1 mark
14(b)	<p>beaker graph ruler stopwatch</p>	1	<p>more than one answer circled = 0 marks</p> <p>Accept any indication of the correct answer, e.g. ticking or underlining but circling takes precedence</p>

Question	Answer	Marks	Further Information
15(a)	<p>The Sun is letter F.</p> <p>The Moon is letter A.</p> <p>The Earth is letter C.</p>	2	<p>three correct = 2 marks</p> <p>one or two correct = 1 mark</p>
15(b)	 <p>The diagram shows a central grey circle labeled 'Sun'. To its right is a larger grey circle labeled 'Earth'. A dashed circular line represents the orbit of the Earth around the Sun, with an arrow indicating counter-clockwise rotation. On the Earth's orbit, there is a smaller grey circle labeled 'Moon'. A dashed circular line represents the orbit of the Moon around the Earth, with an arrow indicating counter-clockwise rotation.</p>	2	<p>Sun added in centre and labelled = 1 mark</p> <p>Moon added and labelled anywhere on orbit around the Earth = 1 mark</p> <p>ignore relative sizes</p> <p>If no labels then 0 marks</p>

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