



Cambridge Primary Checkpoint

SCIENCE

0097/01

Paper 1

October 2025

MARK SCHEME

Maximum Mark: 40

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at a Markers' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the End of Series Report. Cambridge will not enter into discussions about these mark schemes.

This document has **12** pages. Any blank pages are indicated.

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

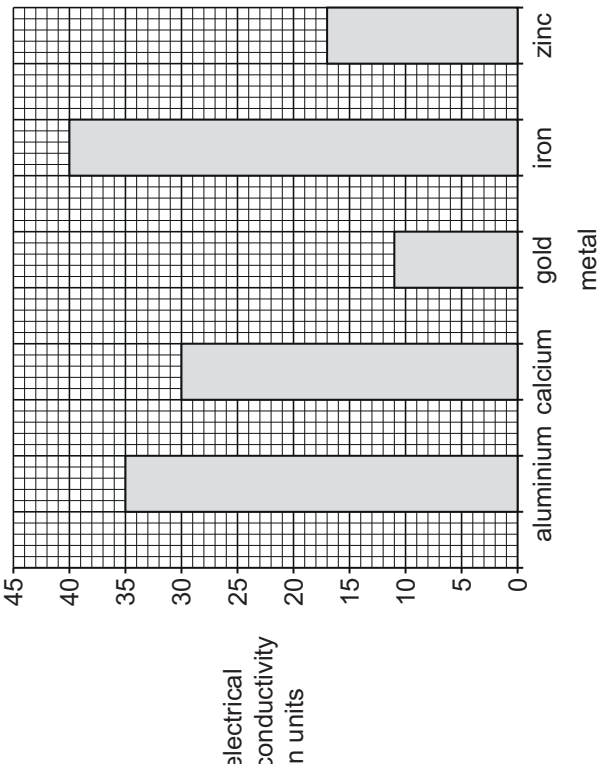
Question	Answer	Marks	Further Information
1(a)	use clean knives to cut food wash hands before eating food	2	each correct answer = 1 mark three ticks two correct = 1 mark three ticks one correct = 0 marks four or more ticks = 0 marks Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence
1(b)	(stomach) acid	1	Accept hydrochloric acid or gastric acid Ignore gastric juice or digestive juice Ignore white blood cells or antibodies Do not accept other named acids Do not accept mucus or antibiotics or skin
1(c)	parasite(s) fungi/fungus	2	each correct answer = 1 mark Note as extra marking points: Accept protozoa Accept virus(es) Ignore bacteria or pathogen or germs or vectors Ignore diseases or named diseases, e.g. measles or ringworm Ignore insects or named insects or animals or named animals, e.g. mosquito or rat

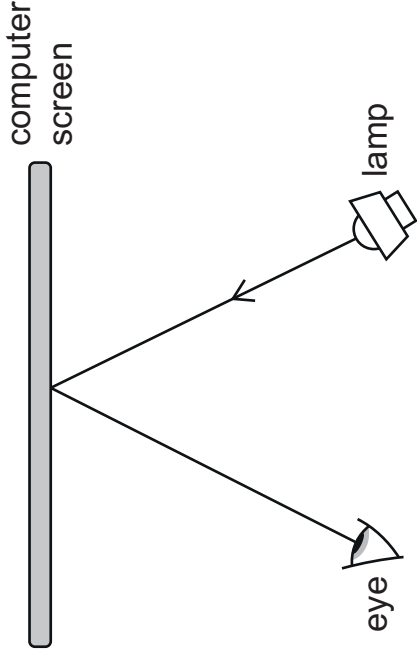
Question	Answer	Marks	Further Information
2(a)	measuring cylinder	1	Accept burette or (graduated) pipette or (graduated) syringe or graduated cylinder Accept just 'cylinder'
2(b)	(idea of) Blessy getting burned or spilling (hot) water or (hot) water getting into eyes	1	
2(c)	100 (°C)	1	
2(d)	property	1	Accept any indication of the correct answer, e.g. circling or underlining, but answer line takes precedence

Question	Answer	Marks	Further Information									
3(a)	a series circuit with lamp 1 and lamp 2 of the same brightness	1	more than one answer ticked = 0 marks Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence									
3(b)	<table><tr><th>type of switch</th><th>symbol</th><th>lamps on or off</th></tr><tr><td>(closed)</td><td></td><td>on</td></tr><tr><td>(open)</td><td></td><td>off</td></tr></table>	type of switch	symbol	lamps on or off	(closed)		on	(open)		off	2	four correct = 2 marks two or three correct = 1 mark one correct = 0 marks
type of switch	symbol	lamps on or off										
(closed)		on										
(open)		off										
3(c)	(idea of) sound or noise or buzzer heard	1	Accept it will buzz or the buzzer will work Accept (idea that) the (two) lamps will become dimmer									

Question	Answer	Marks	Further Information
4(a)	(idea that the wind) picks up / moves / carries / takes the <u>sand</u> or (idea that) the <u>sand</u> hits the rock (idea that) the rock breaks / wears away	2	each correct answer = 1 mark Accept sand is blown away (from the rock) or the <u>sand</u> gets washed away Accept (idea that it) makes the rock turn into sediments or (idea that it) makes small particles of the rock start to fall off or the rock is weathered Accept wind blew away the sediments (in the rock) or bits/pieces/particles of rock get removed (by wind)
4(b)	sea or ocean or river	1	Accept examples of places with water, e.g. stream or lake

Question	Answer	Marks	Further Information
5(a)	circulatory pump blood (around the body)	2	each correct answer = 1 mark Accept circulation Ignore blood or heart Accept push blood Ignore transport blood or carry blood or pump oxygen
5(b)	vein	1	Accept vena cava Do not accept incorrect vein, e.g. pulmonary vein

Question	Answer	Marks	Further Information										
6(a)	iron	1											
6(b)	both bars correctly plotted, iron at 40 and <u>zinc</u> at 17  <table border="1"><thead><tr><th>Metal</th><th>Electrical Conductivity (units)</th></tr></thead><tbody><tr><td>aluminium</td><td>35</td></tr><tr><td>calcium</td><td>30</td></tr><tr><td>gold</td><td>10</td></tr><tr><td>zinc</td><td>17</td></tr></tbody></table>	Metal	Electrical Conductivity (units)	aluminium	35	calcium	30	gold	10	zinc	17	1	Accept $\pm \frac{1}{2}$ small square Ignore bar widths and shading Note 0 marks for a line graph
Metal	Electrical Conductivity (units)												
aluminium	35												
calcium	30												
gold	10												
zinc	17												
6(c)	(idea of) how well a substance conducts heat or (idea of) how well a substance conducts thermal <u>energy</u>	1	Accept how well they transport/pass heat or which metal heats up faster or metals have different heat conductivity Accept named metals, e.g. iron is the best heat conductor or iron, aluminum, and calcium are the best heat conductors or gold and zinc are the worst heat conductors Do not accept answers about conducting electricity										

Question	Answer	Marks	Further Information
7(a)	 computer screen eye lamp	1	Note correct reflection and at least one arrow in the correct direction Note if more than one arrow drawn then all arrows need to be in the correct direction Note all rays (shown) must be solid and straight and meet at a point on or in the screen and touch the lamp and touch the eye
7(b)	ray/light (from lamp) is <u>reflected</u> ray/light goes into eye(s)	2	each correct answer = 1 mark Accept ray/light hits and makes a <u>reflection</u> or screen <u>reflects</u> the ray/light Ignore it/lamp is reflected or the screen is reflective Ignore just the lamp shines into her eye Accept ray/light reflects into the eye(s) or the lamp reflects the ray/light to her eye(s) = 2 marks

Question	Answer	Marks	Further Information
8	B metamorphic E igneous G sedimentary	2	three correct = 2 marks one or two correct = 1 mark Ignore named examples of rock, e.g. sandstone for sedimentary
Question	Answer	Marks	Further Information
9(a)	4 and 12 3	2	each correct answer = 1 mark both answers correct in the correct order for this mark Accept ecf
9(b)	(idea that toxic substance) moves through the food chain by feeding / eating / being consumed	1	Note the idea of feeding / eating / being consumed must be seen at least once in the description Accept toxic substance moves in the direction of the food chain when the water plant is consumed Accept full description, e.g. small fish eat water plants and large fish eat small fish and bird eats large fish or moves by feeding from (water) plant → small fish → large fish → birds

Question	Answer	Marks	Further Information
10	Gases are compressible. Gases expand to fill a container.	2	each correct tick = 1 mark three boxes ticked and two correct = 1 mark three boxes ticked and one correct = 0 marks four boxes ticked = 0 marks Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence

Question	Answer	Marks	Further Information
11(a)	calcium carbonate	1	Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence more than one box ticked = 0 marks
11(b)	(idea of) gas escaped or carbon dioxide escaped	1	Accept carbon dioxide is a gas or gas is produced Ignore carbon dioxide produced

Question	Answer	Marks	Further Information
12(a)	observing over time	1	more than one answer ticked = 0 marks Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence
12(b)	(mean increase in) height	1	Accept how tall the boys get or how much the boys grow
12(c)	all boys	1	Accept gender or sex or no girls

Question	Answer	Marks	Further Information
13(a)	A Venus B Mars	1	both answers correct for the mark
13(b)	orbit around Jupiter	1	Accept any indication of the correct answer, e.g. planet/circle drawn below question with orbit shown but drawing on diagram given takes precedence

Question	Answer	Marks	Further Information
14	cover or buried fossil	1	both answers correct for the mark Accept layers or builds up on or form(s) on

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