

Cambridge Primary Checkpoint

SCIENCE**0097/01**

Paper 1

May 2026

MARK SCHEME

Maximum Mark: 40

Published

Before they start marking, examiners complete a standardisation process. They review a range of candidate responses and discuss the mark scheme in detail to agree which answers can and cannot be accepted. Examiners award marks where it is clear that candidate responses have met the requirements of the mark scheme. These requirements may vary between different components or different versions of the same component, depending on the exact requirements of the question and the candidate responses seen during the standardisation process.

Sometimes, our mark schemes may allow marks to be awarded to responses which contain elements that are factually incorrect or for content not covered by the curriculum. We do this in response to the demands of a specific question to support candidates and make sure that our assessments are fair. However, these allowances should not be used as a guide for teaching and learning.

We cannot discuss the mark scheme with schools, and we recommend that schools read the mark scheme together with the assessment material and End of Series Report for Teachers.

This document has **16** pages.

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.

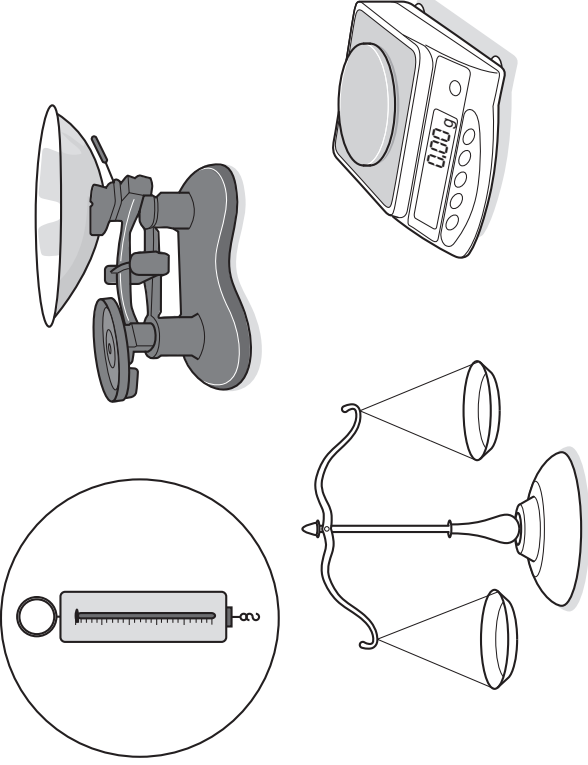
Annotations and abbreviations

/ 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)	circulatory	1	Accept any indication of correct answer, e.g. underlining, but circling takes precedence more than one answer circled = 0 marks
1(b)	capillaries	1	Accept capillary Accept phonetic spellings, e.g. capillars or capilliers or cappelles or capilers Ignore caterpillars or capilarteries or catilars or calipars Accept arteriole or venule Do not accept incorrect structures, e.g. alveoli

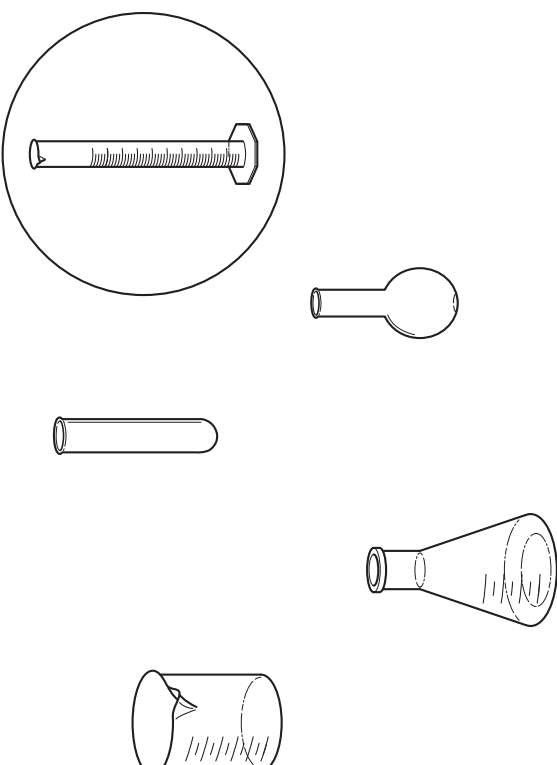
Question	Answer	Marks	Further Information
2(a)	A and B	1	both answers correct for the mark more than two letters = 0 marks
2(b)	any one from (has) mass does not have a fixed volume flows (easily)	1	Note ignore answers given in the form of questions, e.g. does it have mass? Accept (light)weight Ignore light Accept fills the (space/shape of) the container or 'fills space' or takes up all the space (in the container) Ignore does not have a fixed shape or can take the shape of the container Ignore just 'occupies space' or just 'takes up space' Accept free to move Accept as extra marking points: low density poor (thermal/electrical) conductor or is a (thermal/electrical) insulator Ignore colourless or odourless or melting point or boiling point or compressible or tasteless or not flammable or not harmful or toxic or can condense Ignore references about particles, e.g. large spaces between particles
2(c)	E	1	Ignore 113 °C

2(d)	–7 and 59 66 (°C)	2	correct numbers from table written anywhere in the answer = 1 mark correct answer no working = 2 marks Accept –66 (°C) = 2 marks Note if no other mark awarded Accept 52 or –52 for 1 mark
2(e)	liquid gas	1	both answers in the correct order for the mark Ignore water vapour or vapour

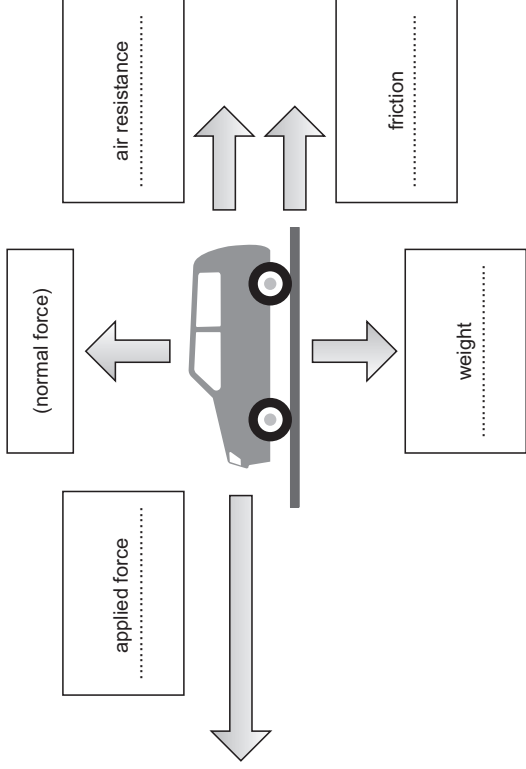
Question	Answer	Marks	Further Information
3(a)	Mass is the amount of matter measured in kg. Weight is a force measured in N.	2	each correct answer = 1 mark three ticks and two correct = 1 mark three ticks and one correct = 0 marks four or more ticks = 0 marks Accept any indication of the correct answer, e.g. circling or underlining, but ticking takes precedence
3(b)		1	Accept any indication of the correct answer, e.g. underlining or ticking, but circling takes precedence more than one answer circled = 0 marks

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Question	Answer	Marks	Further Information
4		2	all four correct = 2 marks two or three correct = 1 mark one correct = 0 marks Accept any indication of the correct answer, e.g. line from options to box, but word in box takes precedence Accept transcription errors, e.g. metamorphis or metamorphosis for metamorphism Ignore metamorphic for metamorphism Ignore correct descriptive words that are not in the list, e.g. ignore cooling in the box for solidification but do not accept incorrect descriptive words, e.g. cooling in the box for melting
Question	Answer	Marks	Further Information
5(a)	6	1	Ignore named carnivores
5(b)	grass → mouse → snake → (wild) cat → lion	1	Accept mice for mouse
5(c)	sun(light)	1	Ignore just 'light' Do not accept additional answers, e.g. grass or carbon dioxide

Question	Answer	Marks	Further Information
6(a)	temperature (of water) (in) °C	1	Accept °C or C° or degrees C or centigrade or Celsius etc. for °C Ignore just 'C' or just ° or degrees or 0° or K or F Do not accept numbers in the answer, e.g. 20 °C
6(b)	230 (g)	1	Accept any number in the inclusive range 228 to 232
6(c)		1	more than one answer circled = 0 marks Accept any indication of the correct answer, e.g. ticking or underlining, but circling takes precedence

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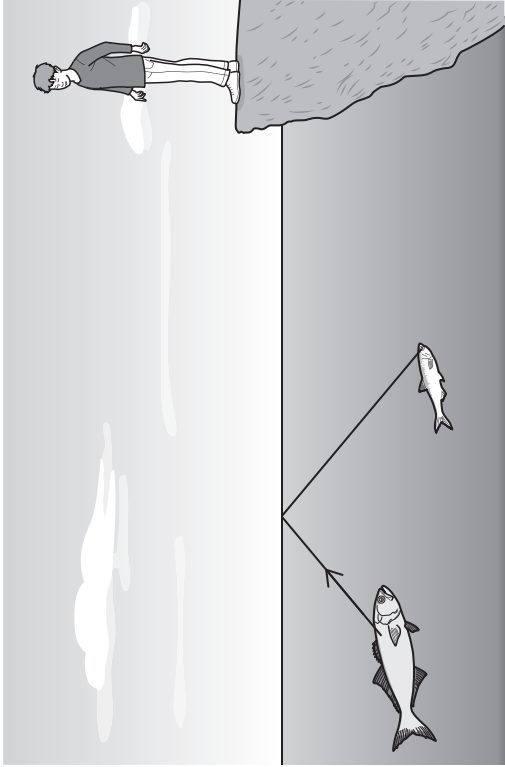
Question	Answer	Marks	Further Information
7	 The diagram shows a car on a horizontal surface. Four force vectors are represented by arrows pointing to boxes for the answer: applied force: A long arrow pointing downwards from the car, pointing to a box labeled 'applied force (normal force): An arrow pointing upwards from the car, pointing to a box labeled '(normal force) air resistance: An arrow pointing to the left from the front of the car, pointing to a box labeled 'air resistance friction: An arrow pointing to the right from the bottom of the car, pointing to a box labeled 'friction weight: An arrow pointing downwards from the center of the car, pointing to a box labeled 'weight	3	weight in correct place = 1 mark applied force in correct place = 1 mark air resistance and friction in boxes next to the arrows pointing to the right in either position = 1 mark Accept any indication of the correct answer, e.g. line from options to box, but word in box takes precedence Accept transcription errors, e.g. resistance for air resistance or applied for applied force Ignore just 'air' for air resistance Ignore just 'force' for applied force Ignore correct descriptive words that are not in the list, e.g. gravity in the box for weight but do not accept incorrect descriptive words, e.g. push in the box for friction

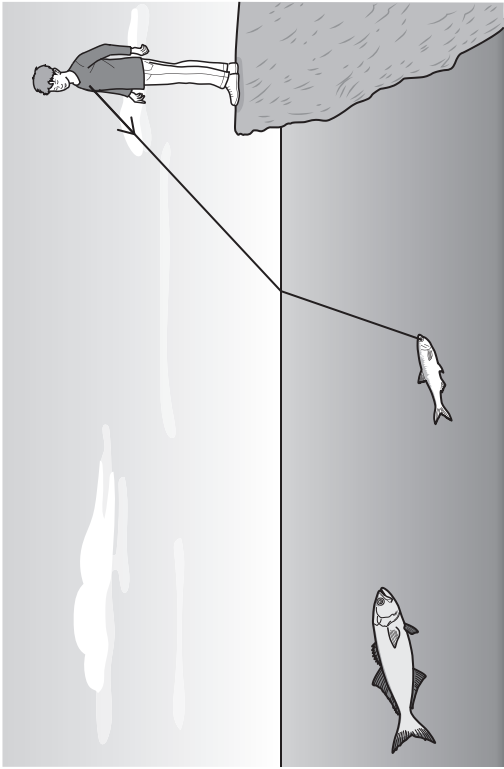
Question	Answer	Marks	Further Information
8(a)	(idea that) as the year increases the number of people with malaria decreases	1	Accept ora as the year decreases the number of people with malaria increases Accept every year (the number of people with) malaria decreases or higher the year the lower number of people (with malaria) or year by year the number of people is decreasing or year by year malaria is decreasing Accept description and use of data to show the decrease Note the data quoted may not be correct but still shows the decrease e.g. from 2015 to 2018 the number of people with malaria decreased by 4 every year or from 2015 to 2018 the number of people with malaria went down by 10 every year or 2015 there were many people and in 2020 there were less people Ignore just use of data with no description Ignore just 'number of people with malaria is decreasing' as no mention of year or time Ignore just 'the lower the year the highest it goes' as no mention of malaria or disease or number of people
8(b)	35	1	

8(c)	any two from (idea of) using (insect) repellent (on the body) (idea of) using a method to reduce the insects in the environment (idea of) using anti-malarial medicine vaccination (idea of) cover up exposed areas use of (mosquito) nets (when sleeping)	each correct answer = 1 mark Accept bug spray or insect free spray or (anti) mosquito lotion or insecticide treated clothing Accept burning mosquito coil or spraying insect poison or spray pesticide or electrocute insects Ignore spray chemicals or use anti-pesticide or bacterial spray or insect medicine or disinfectant Accept use anti malaria tablets or prophylactic medication Ignore insect healer Accept example of cover up, e.g. wear long sleeves or wear trousers or wear pants or wear pyjamas or wear white/yellow/light-coloured clothing Ignore wear socks or protective clothing or wear mask or thick clothes Accept close the windows/doors or have fly screens on doors/windows Ignore stay inside (in an insect free room) or clean room or nets on food or just 'wear a net' Accept as extra marking points: air conditioning or use fans stay inside at dawn/dusk or avoid malarial regions clean/remove stagnant water or stay away from stagnant water/swamps or don't leave buckets of water lying around
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Question	Answer	Marks	Further Information							
9(a)	<table><tr><td>planet</td></tr><tr><td>Mercury</td></tr><tr><td>Venus</td></tr><tr><td>Earth</td></tr><tr><td>Mars</td></tr><tr><td>Jupiter</td></tr><tr><td>Saturn</td></tr></table>	planet	Mercury	Venus	Earth	Mars	Jupiter	Saturn	2	correct names of 6 planets = 1 mark 6 planets in correct place in table = 1 mark Note if no other marks awarded Accept the names of 4 or 5 planets in the correct place in the table Accept phonetic spellings Accept veins for Venus but Do not accept vein(s) for Venus
planet										
Mercury										
Venus										
Earth										
Mars										
Jupiter										
Saturn										
9(b)	31000	1	Accept any number in the inclusive range 30001 to 31999							

Question	Answer	Marks	Further Information
10	reactant(s) product(s)	2	each correct answer = 1 mark Accept substrate Ignore named substances Ignore reacts or reaction Ignore named substances Do not accept producer

Question	Answer	Marks	Further Information
11(a)		1	Note: lines should be solid and straight (by eye) with no obvious gaps reflection must be at surface of water reflected ray should touch head of fish, to the right of the dorsal fin Ignore arrows Ignore dashed line(s) and normal lines Do not accept extra incorrect rays
11(b)	reflected	1	Accept versions of reflected, e.g. reflect(s) or reflection or reflecting Ignore bent or bounces Do not accept refracted or reflected or refracted

11(c)		straight solid line, by eye, continues to the water and correct refraction at water surface and then continues to touch head of fish, to the right of the dorsal fin = 2 marks straight line, by eye, which may be dashed or with gaps that continues to the water and correct refraction at water surface and then continues to fish = 1 mark or straight solid line, with slight wobbles, continues to the water and correct refraction at water surface and then continues to fish = 1 mark or straight solid line, by eye, continues to the water and any refraction at water surface or any refraction very close to the surface of the water = 1 mark Note any line, with no refraction = 0 marks Ignore arrows Ignore slight refraction where straight line meets the arrow from Yuri for the idea of a straight continued line Ignore additional dashed line(s) and normal lines Do not accept extra incorrect rays
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Question	Answer	Marks	Further Information
12(a)	(a) fossil	1	Accept versions of fossil, e.g. fossilised Ignore fossilisation Ignore dead animal or bones or cast Do not accept fossil fuel
12(b)	sedimentary	1	Accept sandstone Ignore sediments or sedimentation or limestone Do not accept other rocks, e.g. igneous or metamorphic
12(c)	erosion	1	Accept weathering or landslide Ignore wind or tectonic movement or rotting or heating

Question	Answer	Marks	Further Information
13	any two from growth spurt body hair facial hair sweat more oily skin voice deepens shoulders broad(en) or chest broad(ens)	2	each correct answer = 1 mark Accept fast(er) growth Ignore just growth or height increases Accept named part of body hair, e.g. pubic hair or public hair (acceptable spelling at this level) or armpit hair Ignore just growing hair Accept named facial hair e.g. beard or moustache Accept body odour or more smelly Accept greasy hair or acne or pimples or spots Accept growth of Adam's apple/larynx/voice box Accept low pitch voice or change of voice Ignore low pitch sound or sound is more deep Accept wide(n) or get wide(r) for broad(en) Ignore bigger or grow or enlarge or expand or develop for broaden Accept as extra marking points: muscle development sex organ development, e.g. increase in penis size or testes grow bigger or scrotum grows or sperm production Ignore non-physical changes, e.g. moody Do not accept menstruation