

Science

Stage 6

Paper 2

Cambridge Primary Progression Test

Mark Scheme



2024

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)	(idea that) pulse rate increases with exercise	1	Accept any prediction that links pulse rate and exercise
1(b)	step 2	1	Accept step 4
1(c)	step 7	1	
1(d)	step 5	1	Accept step 6
1(e)	any two from research observing (over time) identifying classifying	2	each correct answer = 1 mark Accept any other suitable alternatives, e.g. predicting, measuring, concluding
1(f)	vein or artery	1	

Question	Answer	Marks	Further Information
2(a)	the temperature when a <u>solid</u> becomes a <u>liquid</u>	2	each correct answer = 1 mark
2(b)	any two from mass odourless flows easily poor conductor of heat poor conductor of electricity easily compressed or easily squashed	2	each correct answer = 1 mark Accept low density Accept supports combustion as an extra marking point

Question	Answer	Marks	Further Information
3(a)	reflection	1	
3(b)	refraction	1	
3(c)	(idea that) the light bends as it enters and leaves the block (the light) travels in a straight line through the block	2	each correct answer = 1 mark Accept changes direction for bends Accept refracts for bends

Question	Answer	Marks	Further Information
4(a)	orbit	1	
4(b)	Neptune	1	
4(c)	D	1	
4(d)	(large object) that orbits a planet	1	Accept a natural satellite

Question	Answer	Marks	Further Information
5(a)	(idea that) the particles (of the substance) are surrounded by water particles	1	
5(b)	measuring cylinder	1	Do not accept beaker
5(c)	81 (°C)	1	Accept any indication of correct answer, e.g. written on diagram, but answer line takes precedence
5(d)	increases then decreases	2	each correct answer = 1 mark Accept peaks at about 64 (°C) = 2 marks
5(e)	wear (heat resistant) gloves or wear goggles	1	Accept allow beaker to cool before touching

Question	Answer	Marks	Further Information
6(a)	A	1	Accept any indication of the correct answer, e.g. circling, ticking or underlining, but answer line takes precedence
6(b)	B and same battery of cells but fewer lamps in (a series) circuit	1	both correct for the mark Accept lamp in B does not have to share the current with other lamps Allow ora for explanation
6(c)	A and it is a parallel circuit	1	both correct for the mark Allow ora for explanation, i.e. D is a series circuit Accept the lamps in D have to share the current
6(d)	can turn circuit on and off or stops the battery running down	1	Ignore to prevent electric shock

Question	Answer	Marks	Further Information
7(a)	nose or nostril	1	
7(b)	lung	1	
7(c)	any two from lets air into the body or lets oxygen into the body so air reaches the lungs or so oxygen reaches the lungs oxygen then enters the blood	2	each correct answer = 1 mark

Question	Answer	Marks	Further Information
8(a)	X - sedimentary Y - igneous Z - metamorphic	2	all three correct = 2 marks one or two correct = 1 mark
8(b)	erosion	1	Accept weathering
8(c)	any two from (idea that) small particles settle at bottom of body of water or a sediment is formed or sedimentation (idea that) more layers squash together the sediment (idea that) grains stick together	2	each correct answer = 1 mark Accept cementation
Question	Answer	Marks	Further Information
9(a)	organic matter	1	Accept humus
9(b)	clay	1	Accept silt