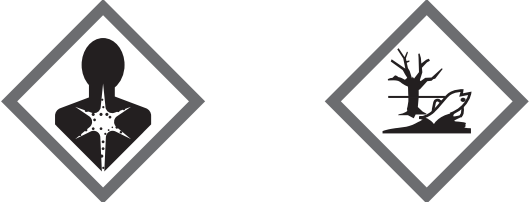


Question	Answer	Marks	Further Information
1(a)	any two from (idea that) might be biased (idea that) might be incorrect (idea that) not be written by experts	2	each correct answer any order = 1 mark
1(b)	reproduction	1	Accept movement
Question	Answer	Marks	Further Information
2	(metal) Na or Al (non-metal) H or C or Ne or Cl	2	each correct answer = 1 mark
Question	Answer	Marks	Further Information
3(a)	gravitational potential kinetic	2	each correct answer = 1 mark Accept gravitational or potential Accept movement
3(b)	becomes less useful or transferred to the surroundings	1	Accept lost to the surroundings

Question	Answer	Marks	Further Information
4(a)	<p>(A) condensation</p> <p>(B) precipitation</p> <p>(C) run-off</p> <p>(D) evaporation</p>	4	each correct answer = 1 mark
4(b)		2	<p>each correct answer = 1 mark</p> <p>Accept any indication of the correct answer, e.g. ticking or underlining, but circling takes precedence</p> <p>if three symbols circled and one is incorrect = 1 mark</p> <p>if three symbols circled and two are incorrect = 0 marks</p> <p>more than three circled = 0 marks</p>

Question	Answer	Marks	Further Information
5(a)	(characteristic) wings and (explanation) group B has wings and group A does not or (characteristic) hair or fur and (explanation) group A has hair or fur and group B does not	1	correct characteristic and linked explanation = 1 mark
5(b)	cannot see any teeth	1	

Question	Answer	Marks	Further Information
6(a)	red	1	Accept pink, orange or yellow
6(b)(i)	it fizzes Universal Indicator changes colour to blue or (idea that) change in pH from 3 to 12	2	each correct answer = 1 mark Accept gas is produced Accept new substance formed as an additional marking point
6(b)(ii)	neutralisation	1	

Question	Answer	Marks	Further Information
7	<p>any one from</p> <p>(strength)</p> <p>(idea that) particles are shown (by circles)</p> <p>(idea that) different coloured circles represent different liquids</p> <p>(idea that) the model shows a liquid takes the shape of the bottom of the container</p> <p>any one from</p> <p>(limitation)</p> <p>(idea that) the model does not show the movement of the particles</p> <p>(idea that) particles are not round</p> <p>(idea that) all of the particles in a liquid would be touching another particle</p> <p>(idea that) particles are not the correct size</p>	2	<p>correct strength = 1 mark</p> <p>correct limitation = 1 mark</p> <p>Accept (idea that) the model does not show how the liquid particles interact</p>

Question	Answer	Marks	Further Information
8(a)	particles are closer together the vibrations are passed on more quickly	2	each correct answer = 1 mark
8(b)(i)	the reflection of a sound (wave)	1	Ignore sound bounces back
8(b)(ii)	(340 x 6 =) 2040(m) (2040/2) = 1020(m)	2	each correct answer = 1 mark Accept ecf from 2040 Note 1020(m) for the second marking point = 2 marks even if first answer line left blank or first answer incorrect

Question	Answer	Marks	Further Information
9(a)	earthquake	1	Accept any indication of the correct answer, e.g. ticking or underlining, but circling takes precedence
9(b)	mantle	1	Accept moving magma

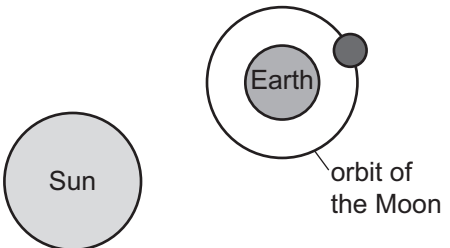
Question	Answer	Marks	Further Information												
10(a)	<table border="1"> <thead> <tr> <th data-bbox="539 252 887 328">number of lamps</th> <th data-bbox="891 252 1211 328">current in amps</th> </tr> </thead> <tbody> <tr> <td data-bbox="539 331 887 379">1</td> <td data-bbox="891 331 1211 379">5.0</td> </tr> <tr> <td data-bbox="539 383 887 430">2</td> <td data-bbox="891 383 1211 430">2.4</td> </tr> <tr> <td data-bbox="539 434 887 481">3</td> <td data-bbox="891 434 1211 481">1.5</td> </tr> <tr> <td data-bbox="539 485 887 533">4</td> <td data-bbox="891 485 1211 533">1.2</td> </tr> <tr> <td data-bbox="539 536 887 584">5</td> <td data-bbox="891 536 1211 584">0.9</td> </tr> </tbody> </table>	number of lamps	current in amps	1	5.0	2	2.4	3	1.5	4	1.2	5	0.9	2	<p>correct unit = 1 mark</p> <p>number of lamps matched to current = 1 mark</p> <p>Note correct rows can be in any order</p> <p>Accept A or ampere for unit</p> <p>Do not accept units in the body of the table for the units mark</p>
number of lamps	current in amps														
1	5.0														
2	2.4														
3	1.5														
4	1.2														
5	0.9														
10(b)	decreases	1													
10(c)	no ticked (no marks) and (idea that) she has not repeated the experiment or she only has one set of results	1	if yes ticked then = 0 marks for the question												
10(d)	cell or battery of cells	1	Accept battery												

Question	Answer	Marks	Further Information
11(a)		3	<p>all four correct = 3 marks</p> <p>two or three correct = 2 marks</p> <p>one correct = 1 mark</p> <p>If two lines drawn from one specialised cell to two main functions, that specialised cell is incorrect</p>
11(b)	<p>any one from</p> <p>thin</p> <p>long</p> <p>branched</p>	1	<p>Accept fatty sheath or myelin sheath</p>

Question	Answer	Marks	Further Information
12	(region which is) devoid of matter	1	Accept no matter or no particles

Question	Answer	Marks	Further Information
13(a)	arrow between grass and mouse and arrow between mouse and hawk correct direction of arrow pointing from grass to mouse and from mouse to hawk	2	each correct answer = 1 mark
13(b)	any one from (idea that) break down dead or break down decaying organisms (idea that) puts nutrients back into soil	1	

Question	Answer	Marks	Further Information
14	<p>any three from</p> <p>both contain iron particles</p> <p>both contain particles touching each other or both have particles close together</p> <p>particles in pure iron in a pattern or particles in steel not in a pattern</p> <p>particles in iron are all same size or in steel particles are different sizes</p>	3	<p>each correct answer = 1 mark</p> <p>Accept particles in pure iron are in layers or particles in steel are not in layers</p> <p>Accept particles of carbon smaller than particles of iron or particles of iron larger than particles of carbon</p>

Question	Answer	Marks	Further Information
15(a)		1	Accept any indication of the correct answer, e.g. Moon position marked by a cross
15(b)	gravity	1	Accept gravitational attraction

