



Mark Scheme (Results)

Summer 2014

PLSC Science (JSC01/01)  
Edexcel International Primary  
Curriculum Science

Y6 Achievement test

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## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

## SECTION A

Question Number	Answer	Mark
1	D	1
2	B	1
3	D	1
4	C	1
5	B	1
6	B	1
7	C	1
8	D	1
9	A	1
10	C	1
<b>Total for question</b>		<b>10</b>

Question	Acceptable answers	Additional guidance	Mark
11a	i) <u>filter</u> paper (1) ii) (filter) funnel (1)	If both fully correct but in wrong order allow (1)	2
11b	in beaker/water/solution/filtrate (1)  (because) it dissolves/is soluble (1)	Ignore: references to 'bottom of' and credit beaker  Ignore: saltwater can pass through filter paper.	2
<b>Total for question</b>			<b>4</b>

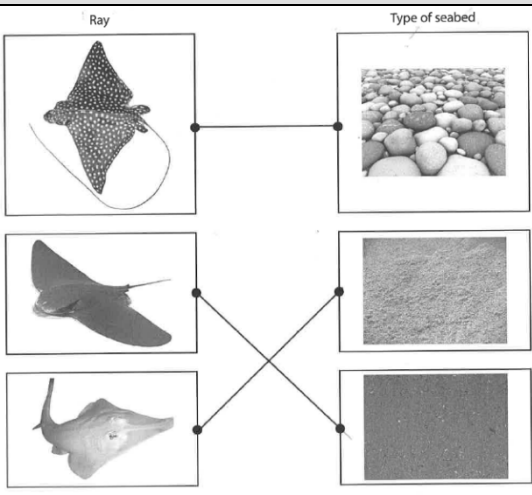
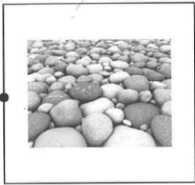
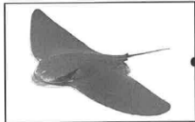
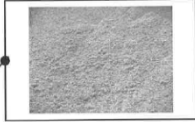
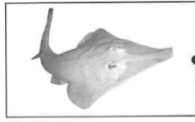
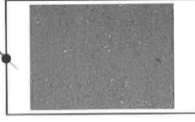
Question	Acceptable answers	Additional guidance	Mark
<b>12a</b>	<p>Any 1 from</p> <p>food production / making food (1)</p> <p>rotting/decaying (qualified)/ decomposing/compost(ing) (1)</p> <p>example of pharmaceutical use e.g. : penicillin/antibiotics /vitamin synthesis/making <u>insulin</u>/making <u>vaccines</u> (1)</p>	<p>Accept: named product e.g. yogurt/curd/ bread/ cheese/ beer</p> <p>Ignore: decaying/rotting food, or other indication that it is not useful on second marking point only. Otherwise penalise contradictions e.g. food production and causes disease</p> <p>Ignore: medicine alone as it is insufficient.</p>	<b>1</b>
<b>12b</b>	<p>Any 3 from:</p> <p>feed (1)</p> <p>grow (1)</p> <p>reproduce (1)</p> <p>move (1)</p> <p>sense (1)</p> <p>respire(1)</p> <p>excrete (1)</p>	<p>Reject: make their own food Accept: eat</p> <p>Accept: have babies/young/offspring</p> <p>Ignore: breathe</p> <p>Ignore: remove waste</p>	<b>3</b>
		<b>Total for question</b>	<b>4</b>

Question	Acceptable answers	Additional guidance	Mark
<b>13</b>	Any 3 from:  radio near water/sink (1)  child with pencil next to socket (1)  frayed /damaged /repaired wire/lead/cable (1)  trailing wires / leads/cables (1)	Accept: alternatives to pencil e.g. pen/stick Accept: no childproof cover on socket	<b>3</b>
		<b>Total for question</b>	<b>3</b>

Question	Acceptable answers	Additional guidance	Mark
<b>14</b>	ammeter		<b>1</b>
		<b>Total for question</b>	<b>1</b>

Question Number	Answer	Mark	
<b>15</b>	B	<b>1</b>	
<b>16</b>	D	<b>1</b>	
<b>17</b>	A	<b>1</b>	
<b>18</b>	D	<b>1</b>	
<b>19</b>	B	<b>1</b>	
<b>20</b>	C	<b>1</b>	
<b>21</b>	B	<b>1</b>	
<b>22</b>	D	<b>1</b>	
<b>23</b>	A	<b>1</b>	
		<b>Total for question</b>	<b>9</b>

Question	Acceptable answers	Additional guidance	Mark
<b>24</b>	Any 2 from:  flower <u>colour</u> (1)  flower shape/distribution or description (1)  number of petals (1)  leaf <u>colour</u> (1)  leaf shape/size or description (1)	Allow: roots, if qualified  Ignore: smell/habitat	<b>2</b>
<b>Total for question</b>			<b>2</b>

Question	Acceptable answers	Additional guidance	Mark
<b>25</b>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Ray</p>  </div> <div style="text-align: center;"> <p>Type of seabed</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <p>3 correct - 2 marks 2 or 1 correct - 1 mark</p>		<b>2</b>
<b>Total for question</b>			<b>2</b>

Question	Acceptable answers	Additional guidance	Mark
<b>26a</b>	<u>solution</u>		<b>1</b>
<b>26b</b>	it does not dissolve/is insoluble		<b>1</b>
<b>26c</b>	more of solid C dissolved (in the same amount of water) (1)  OR  solid C is more soluble (1)	(or converse) Accept: solid C dissolves better/more easily  Ignore: solid C dissolves faster/quicker  (or converse)	<b>1</b>
<b>26d</b>	evaporate (the water off)	Ignore: heat the solution /mixture/water (containing A)	<b>1</b>
		<b>Total for question</b>	<b>4</b>

Question Number	Answer	Mark
<b>27</b>	A	<b>1</b>
<b>28</b>	D	<b>1</b>
<b>29</b>	B	<b>1</b>
<b>30</b>	D	<b>1</b>
<b>31</b>	B	<b>1</b>
<b>32</b>	A	<b>1</b>
		<b>Total for question</b>
		<b>6</b>



**SECTION B**

Question	Acceptable answers	Additional guidance	Mark
<b>33a</b>	thermometer		<b>1</b>
<b>33b</b>	20		<b>1</b>
<b>33c</b>	It will go down/decrease/be lower		<b>1</b>
		<b>Total for question</b>	<b>3</b>

Question	Acceptable answers	Additional guidance	Mark
<b>34a</b>	4		<b>1</b>
<b>34b</b>	only one with suitable scale / more graduations / 5 cm <sup>3</sup> markings	Accept: more numbers on it / can give smallest measurements  Dependent on (a), but if (a) blank can score one or both marks in (b)  Accept: reverse argument for not selecting 1,2,3	<b>1</b>
		<b>Total for question</b>	<b>2</b>

Question	Acceptable answers	Additional guidance	Mark
<b>35a</b>	(same) volume (1) pieces of towel same area (1)	Accept: (same) amount of water Accept: same cm <sup>3</sup> /ml Accept: same size / width / length / measurements	<b>2</b>
<b>35b</b>	measuring cylinder (1)		<b>1</b>
<b>35c</b>	Any 1 from: identify anomalies / errors/mistakes (1) (improve) reliability (1) (to calculate) an average (1)	Ignore: results will be more accurate Ignore: reference to fair test	<b>1</b>
<b>35di</b>	14 circled (1)		<b>1</b>
<b>35dii</b>	Any 1 from: result too high (1) other results were (both) 7 (1)	Ignore: mistake	<b>1</b>
<b>35e (i)</b>	Both required for mark x axis- towel y axis - number of pieces (of towel) (1)		<b>1</b>
<b>35e (ii)</b>	2 bars correctly drawn (1)	Ignore: width and allow error +/- 2mm in height	<b>1</b>
<b>35f</b>	(paper towel) B (1)  took fewer pieces (of towel to soak up water) (1)	dependent on choice of B, but if choice line blank can score one or both marks in explanation  Accept: smallest number / least / <b>only</b> 3	<b>2</b>
		<b>Total for question</b>	<b>10</b>

Ofqual



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Welsh Assembly Government



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