

Mark Scheme (Results)

Summer 2013

PLSC Science (JSC01/01)
Edexcel International
Primary Curriculum

Year 6 Achievement Test

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications come from Pearson, the world's leading learning company. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at www.edexcel.com or www.btec.co.uk for our BTEC qualifications. Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus.

If you have any subject specific questions about this specification that require the help of a subject specialist, you can speak directly to the subject team at Pearson. Their contact details can be found on this link: www.edexcel.com/teachingservices.

You can also use our online Ask the Expert service at www.edexcel.com/ask. You will need an Edexcel username and password to access this service.

Pearson: helping people progress, everywhere

Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk

Summer 2013

Publications Code PL036676

All the material in this publication is copyright

© Pearson Education Ltd 2013

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	B	1
2	C	1
3	D	1
4	C	1
5	D	1
6	B	1
7	C	1
8	C	1
9	D	1

Question	Acceptable answers	Additional guidance	Mark														
10(a)	<table border="1"> <thead> <tr> <th rowspan="2">Solid</th> <th colspan="2">Properties</th> </tr> <tr> <th>Dissolves in water</th> <th>Magnetic</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>No</td> <td>No</td> </tr> <tr> <td>Sugar</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Iron filings</td> <td>No</td> <td>Yes</td> </tr> </tbody> </table>	Solid	Properties		Dissolves in water	Magnetic	Sand	No	No	Sugar	Yes	No	Iron filings	No	Yes		3
	Solid		Properties														
		Dissolves in water	Magnetic														
	Sand	No	No														
	Sugar	Yes	No														
Iron filings	No	Yes															
1 mark per correct row																	

Question	Acceptable answers	Additional guidance	Mark
10(b)	Evaporation	Accept evaporating Accept description involving heat(ing) the solution to drive off water	1

Total for Question 10 = 4 marks

Question	Acceptable answers	Additional guidance	Mark
11(a)	(The metal) conducts electricity	Accept is an (electrical) conductor	1

Question	Acceptable answers	Additional guidance	Mark
11(b)	'Someone touching the wire might get an electric shock' ticked	Accept any other unambiguous mark in the box	1

Question	Acceptable answers	Additional guidance	Mark
11(c)	(Bulb 2) will go out	Accept it will not light/work	1

Total for Question 11 = 3 Marks

Question Number	Answer	Mark
12	A	1
13	B	1
14	C	1
15	C	1
16	D	1
17	D	1
18	A	1
19	A	1
20	B	1

Question	Acceptable answers	Additional guidance	Mark
21(a)	D	If all parts if more than one answer given no marks Accept naming of 'claws'	1

Question	Acceptable answers	Additional guidance	Mark
21(b)	A	Accept naming of 'tail'	1

Question	Acceptable answers	Additional guidance	Mark
21(c)	B	Accept naming 'eyes'	1

Total for Question 21 = 3 Marks

Question	Acceptable answers	Additional guidance	Mark
22	Cell (1)		3
	Current (1)		
	Ammeter (1)		

Total for Question 22 = 3 Marks

Question Number	Answer	Mark
23	C	1
24	D	1
25	D	1
26	B	1
27	B	1
28	C	1
29	A	1

Question	Acceptable answers	Additional guidance	Mark
30(a) (i)	Any one from water snail, tadpole or water flea	If more than one answer given then all must be correct	1

Question	Acceptable answers	Additional guidance	Mark
30(a) (ii)	Any one from kingfisher, great diving beetle or frog	If more than one answer given then all must be correct	1

Question	Acceptable answers	Additional guidance	Mark
30(b)	They (waterlilies) need a lot/lots of sunlight/so they can get enough sunlight/so they can get plenty of/more sunlight	Do not accept light on its own – must be qualified Ignore references to air/space/room/heat/temperature	1

Question	Acceptable answers	Additional guidance	Mark
30(c)	(The water lily) would <u>grow</u> more / bigger /better	Ignore reference to healthiness (of lilies)	1

Total for Question 30 = 4 Marks

Question	Acceptable answers	Additional guidance	Mark
31(a)	Any two from two or more substances (1) that are together but are not (chemically) joined (1) that are easily separated (1)		2

Question	Acceptable answers	Additional guidance	Mark
31(b)	Emulsion		1

Total for Question 31 = 3 Marks

SECTION B

Question	Acceptable answers	Additional guidance	Mark
32(a)	(Amount of) light (1)	Ignore reference to dark/darkness	2
	(Amount of) water (1)	Accept reference to how wet and how dry or wetness and dryness/dampness	

Question	Acceptable answers	Additional guidance	Mark
32(b)	Both headings should be suitable, e.g. Section/choice chamber/habitat/letter AND Number of Woodlice (1)	Reject bar charts	2
	Correct data for each column/row (1)		

Question	Acceptable answers	Additional guidance	Mark
32(c)	(Woodlice prefer/like) dark damp places/Z	Answer must refer to both dark and damp	1

Question	Acceptable answers	Additional guidance	Mark
32(d)	Repeat (their experiment) OR Compare their results to another group (doing the same test). OR Add / use <u>more</u> woodlice. OR Add new / fresh / different woodlice	Accept suggestions that more data is needed, only if an indication of what data will be collected is given.	1

Total for Question 32 = 6 Marks

Question	Acceptable answers	Additional guidance	Mark
33(a)	C - 100cm ³ cylinder		1

Question	Acceptable answers	Additional guidance	Mark
33(b)	1(g)		1

Question	Acceptable answers	Additional guidance	Mark
33(c)	<p>Any two from:</p> <p>Stir (the mixture) (1)</p> <p>Heat the water / hot(ter) water /warm(er) water (1)</p> <p>Grind up / powder the salt (1)</p>	Accept idea of finer salt	2

Total for Question 33 = 4 Marks

Question	Acceptable answers	Additional guidance	Mark
34(a)	Carla (Which is the best material?)		1

Question	Acceptable answers	Additional guidance	Mark
34(b)	Any two from: Width (1) Length (1) Same (number of) mass(es) (1)	Amount/size of material worth 1 mark only Accept weight Ignore references to time	2

Question	Acceptable answers	Additional guidance	Mark
34(c)	All bars drawn correctly (1) All fabrics named/use of key (1)	Line graph = no marks	2

Total for Question 34 = 5 Marks

Total for Paper = 60 Marks

Further copies of this publication are available from
Edexcel Publications, Adamsway, Mansfield, Notts, NG18 4FN

Telephone 01623 467467

Fax 01623 450481

Email publication.orders@edexcel.com

Order Code PL036676

Summer 2013

For more information on Edexcel qualifications, please visit our website
www.edexcel.com

Pearson Education Limited. Registered company number 872828
with its registered office at Edinburgh Gate, Harlow, Essex CM20 2JE

Ofqual




Llywodraeth Cynulliad Cymru
Welsh Assembly Government



Rewarding Learning