



Mark Scheme (Results)

Summer 2012

PLSC Primary (Year 6)

JSC01 Paper 01

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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.
- Mark schemes will indicate within the table where, and which strands of QWC, are being assessed. Questions labelled with an **asterisk (*)** are ones where the quality of written communication will be assessed.

Using the Mark Scheme

Examiners should look for qualities to reward rather than faults to penalise. This does NOT mean giving credit for incorrect or inadequate answers, but it does mean allowing candidates to be rewarded for answers showing correct application of principles and knowledge. Examiners should therefore read carefully and consider every response: even if it is not what is expected it may be worthy of credit.

The mark scheme gives examiners:

- an idea of the types of response expected
- how individual marks are to be awarded
- the total mark for each question
- examples of responses that should NOT receive credit.

/ means that the responses are alternatives and either answer should receive full credit.

() means that a phrase/word is not essential for the award of the mark, but helps the examiner to get the sense of the expected answer.

Phrases/words in **bold** indicate that the meaning of the phrase or the actual word is **essential** to the answer.

ecf/TE/cq (error carried forward) means that a wrong answer given in an earlier part of a question is used correctly in answer to a later part of the same question.

Candidates must make their meaning clear to the examiner to gain the mark. Make sure that the answer makes sense. Do not give credit for correct words/phrases which are put together in a meaningless manner. Answers must be in the correct context.

Section A

Question Number	Answer	Mark
1	C	1
2	B	1
3	A	1
4	B	1
5	B	1
6	D	1
7	B	1
8	D	1
Total for question		8

Question Number	Acceptable answers	Additional guidance	Mark
9(a)	Root		1
9(b)	Any 1: Reference to brushing Use of toothpaste Use of fluoride Use mouthwash Visit the dentist Avoid sugary/acid foods Flossing		1
Total for question			2

Question Number	Acceptable answers	Additional guidance	Mark
10(a)	Arteries	Accept unambiguous phonetic spelling	1
10(b)	Veins	Accept unambiguous phonetic spelling Both correct but reverse max 1 mark	1
Total for question			2

Question Number	Answer	Mark
11	B	1
12	B	1
13	A	1
14	B	1
15	A	1
16	D	1
17	D	1
18	C	1
19	C	1
Total for question		9

Question Number	Answer		Additional guidance	Mark
20	Used for windows as light passes through it easily	glass	1 mark for each correct pairing. Do not award mark for any box with two lines joining it.	3
		paper		
	Used to make water pipes as it is strong, but easy to shape into hollow, watertight tubes	metal		
	Used for building walls as it is strong and can be joined together	brick		
			Total for question	3

Question Number	Answer	Additional guidance	
21	Idea that when Afza sprays the perfume (the gas particles) is/are close/near to her (1)		3
	Idea that (particles) move/spread out (1)	Accept reference to diffusion instead of moving.	
	Idea that it takes time/it is slow/there is a delay (for the smell to reach Tom) (1)	'because the gas travels slowly ' = 2 marks (mp 2 + 3) Accept molecules/atoms	
		Total for question	3

Question Number	Answer	Mark
22	C	1
23	D	1
24	C	1
25	B	1
26	C	1
27	D	1
28	A	1
29	C	1
30	D	1
31	B	1
	Total for question	10

Question Number	Answer	Additional guidance	
32(a)	Reference to light (1) Reference to opaque/blocking of light (1)	Accept that light can't pass through an object	2
32(b)	At noon, the sun is higher/overhead/above (the stick) (1) Shadow is shorter at noon/shadow is longer in the morning (1)	Accept reverse for earlier/in the morning	2
		Total for question	4

Question Number	Answer	Additional guidance	
33(a)	Charlie is nearer to the sound	Accept the converse, that Kurt is further away from the sound	1
33(b)	Vibration		1
33(c)(i)	Idea that the sound was obstructed /he was next door/door was closed	Accept further away	1
33(c)(ii)	Idea that sound passes through solids/through the wall	Accept sound was closer	1
		Total for question	4

Total for Section A = 45 marks

Section B

Question Number	Answer	Additional guidance	
34(a)	8		1
34(b)	Newton	Accept Newton [Do not accept force] Ignore upper/lower case start	1
34(c)	Friction		1
34(d)	Ballet pump has the least friction (1)	Accept smoothest/least grip	2
	Trainer has the most friction (1)	Accept roughest/most grip	
		Total for question	5

Question Number	Answer	Additional guidance	
35(a)	68 (1) °C (1)	Accept Celsius/centigrade /degrees Celsius Ignore varying sizes of letter C but REJECT C°	2
35(b)(i)	They/both go down/decrease (in temperature)	Accept idea that they both cool down	1
35(b)(ii)	Medium beaker cools less rapidly/more slowly/stays warmer/stays higher (temperature) (1) At the end, temperature of medium beaker is higher /quote data for end temperature of each (1)	Accept reverse argument for small beaker for first point First mark is for overview, second mark is for end temperature	2
35(c)	The large beaker (also) cools down (1) The large beaker doesn't give such a steep drop/line/reference to higher end temperature (1)	Accept reference to larger beaker being/staying the warmest/staying higher (temperature)	2
		Total for question	7

Question Number	Answer	Additional guidance	
36	<p><u>First two marks:</u> All four bars correct (2)</p> <p>Two or three bars correct (1) [Margin of error +/- $\frac{1}{4}$ square]</p> <p><u>Third mark:</u> All bars correctly labelled (1)</p>	<p>Max 1 mark here if bars unequal widths</p> <p>Ignore spacing between bars</p>	3
		Total for question	3

Total for Section B = 15 marks

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