



Mark Scheme Results

Summer 2016

Pearson Edexcel PLSC
Primary Science (JSC01) Paper 01
Science Year 6 Achievement

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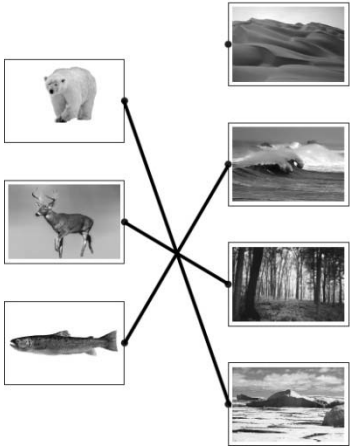
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General Marking Guidance

- 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	C	1
3	D	1
4	B	1
5	D	1
6	C	1
7	A	1
8	D	1
9	D	1
10	C	1

Question number	Acceptable answers	Additional guidance	Mark
11		<p>all three correct = 2 marks 1 or 2 correct = 1 mark</p> <p>If all four joined then max 1 mark</p>	2
12(a)	(brightness) increases/bulb brighter (1)	Must be comparative	1
12(b)	(brightness) decreases/bulbs dimmer/less bright (1)	Must be comparative Accept: lowers/reduces (brightness)	1

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

Question number	Acceptable answers	Additional guidance	Mark
22(a)(i)	grass (1)	Ignore plant Reject other answers	1
22(a)(ii)	insect/mouse (1)	Reject other answers	1
22(a)(iii)	insect (1)	Reject other answers	1
22(a)(iv)	mongoose (1)	Reject other answers	1
22(b)	Any one from: grow reproduce move sense/respond respire excrete	Ignore all references to feeding/nutrition (given in question) Accept: have babies/young/offspring Ignore breathe Ignore remove waste	1
23(a)	right (1) does not move (1) down (1)	If more than one tick per row the 0 mark	3
23(b)	Newton(s) (1)	Accept N	1

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

Question number	Acceptable answers	Additional guidance	Mark
30(a)	(shadow is) smaller/shorter/not as big/OWTTE (1)	Needs to be comparative Ignore references to the vase	1
30(b)	(shadow is) smaller/shorter/not as big/OWTTE (1)	Needs to be comparative Ignore references to the vase	1
31(a)	water (1)		1
31(b)(i)	<u>melting</u> (1)	Accept: <u>melt</u> (s)	1
31(b)(ii)	<u>evaporation/evaporating</u> (1)	Accept: <u>evaporate</u> (s)	1
32	25 - (19 to 20) or indicated on graph (1) 5 OR 6 (1)	Award both marks for a correct answer with/without working. Allow ECF from graph reading in range 19-20	2

TOTAL MARK FOR SECTION A = 45 marks

Section B

Question number	Acceptable answers	Additional guidance	Mark
33 (a)	thermometer (1) measuring cylinder (1)	Allow: <u>measuring</u> jug / <u>measuring</u> spoon / measuring or graduated beaker	2
33(b)	same volume of water (1)	Accept: same amount of water Ignore references to stirring Reject references to same temperature (independent variable) Reject references to sugar (dependent variable)	1
33(c)	50 (1)	Ignore any units	1
33(d)	repeat (1)	Accept: do it again do it more times	1

Question number	Acceptable answers	Additional guidance	Mark
34(a)	R (1)	Accept: 100 cm ³ (measuring cylinder)	1
34(b)(i)	43 in Cup B (only) (1)	Accept: 45 in Cup B (only)	1
34(b)(ii)	24 (°C) (1) (Explanation) any one from: <ul style="list-style-type: none"> • (this is) the lowest temperature • (temperature) does not fall below room temperature • (both cups) finish/end at this temperature • temperature remains constant/the same (1)	Explanation mark can only be awarded if 24 (°C) given	2

Question number	Acceptable answers	Additional guidance	Mark
35(a)	40-49 and 15 (1) 70-79 and 16 (1)	Complete row correct for mark Complete row correct for mark	2
35(b)	40-49 bar plotted at height of 15 (1) 70 -79 bar plotted at height of 16 (1)	Bars should be same width as others Tolerance: height: half a small square Width and Position: one small square Allow ecf here from (a) Allow ecf here from (a)	2
35(c)	false false true false	all four correct = 2 marks any 2 or 3 correct = 1 mark 1 or 0 correct = no marks	2

TOTAL MARK FOR SECTION B = 15 marks

TOTAL MARK FOR PAPER = 60 marks