

Mark Scheme (Results)

June 2011

International GCSE

Physics (4PHO) Paper 2P

PEARSON

INTERNATIONAL GCSE PHYSICS 4PH0/2P - SUMMER 2011

Question number	Answer	Notes	Marks
1 (a) (i)	B - Moon		1
(ii)	C - Planet		1
(iii)	B - Gravity		1
(b) (i)	Milky Way		1
(ii)	Universe		1
(c)	A – surface of the Moon		1
(d)	C – N/kg		1

Total 7 marks

Question number	Answer	Notes	Marks
5 (a)	15 (N)		1
(b) (i)	Scale on axes is linear - 1 mark Axes labelled with scales and units - 1 mark Plotting to nearest half-square (minus one for each plotting / scale error, up to max 2 marks) - 2 marks Line (straight) of best fit acceptable - 1 mark	ALLOW 'mass' / 'scale reading' for y-axis	5
		Bar charts: can only score S, A and P marks (4 max)	
(ii)	(4, 3.7) identified / circled;		1
(c)	Any four from:		4
	 There is an obvious error / anomaly / inconsistency in the readings; The data on the tin may be wrong; The extension of spring might not be linear / broken scales / scales not obeying Hookes Law; There is a zero error; There could be reading error / parallax error; Methods The conclusion was based on just one pair of readings; The experiment was not repeated; The weight of tins / bag was not taken into account; (0 – 5kg is an) inadequate range to measure schoolbag; 		