



Mark Scheme (Results)

January 2017

International GCSE

Chemistry (4PH0) Paper 1C

Science Double Award (4SC0) Paper 1P

Pearson Edexcel Certificate in

Chemistry (KPH0) Paper 1C

Science (Double Award) (KSC0) Paper 1P

Question number	Answer	Notes	Marks
7 (a)	any three of the following: MP1. current increases during first 0.04s / to maximum of 0.4A ; MP2. current increase is linear /proportionate to time; MP3. (then) current drops for next 0.44s / by 0.48s ; MP4. current decrease is nonlinear ; MP5. (final)current constant value is 0.2 A / from 0.48s onwards;	allow 'at first' for first 0.04s allow 0.5s allow 0.5s	3
b i	0.2 A;		1
ii	$V = IR$;	accept words or standard symbols	1
iii	substitution; rearrangement; evaluation; unit; e.g. $12 = 0.2 \times R$ $R = 12/0.2$ $= 60$ Ω	accept ecf from bi independent mark	4
iv	$P = IV$;	accept words or standard symbols	1
v	substitution; evaluation; e.g. $P = 0.2 \times 12$ 2.4 (W)	accept ecf from bi	2
c	filament heats up very rapidly (at the start); causing it to melt/ break;	allow wire for filament	2

Total 14 marks

		other POT error only loses conversion mark	
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Total 10 marks

