

Question	Answers	Extra information	Mark
01.1	switch	If more than one box is ticked, award no marks.	1
01.2	voltmeter drawn in parallel to bulb		1
01.3	resistance = potential difference ÷ current	If more than one box is ticked, award no marks.	1
01.4	current amps (A) potential difference ohms (Ω) resistance volts (V)	2 marks for all lines correct.1 mark for one or two lines correct.	2
Total		1	5



Question	Answers	Extra information	Mark
02.1	electron	2 marks for all labels correct. 1 mark for one or two labels correct.	2
02.2	neutral	If more than one box is ticked, award no marks.	1
02.3	atoms have an equal number of protons and electrons	If more than one box is ticked, award no marks.	1
02.4	positive	Answers in this order only.	1
	negative		1
	opposite		1
Total			7



Question	Answers	Extra information	Mark
03.1	 Any three from: wrap the insulated copper wire around the iron nail attach crocodile clips to each end of the insulated copper wire attach the crocodile clips to the power pack switch on the power pack to allow a 		3
03.2	the paperclips are magnetic/made of a magnetic material	Allow the paperclips are made of iron/ steel.	1
03.3	all points plotted correctly straight line of best fit	Allow 1 mark for 2 or 3 points plotted correctly.	2
03.4	increases		1
03.5	increase the number of turns in the coil of wire		1
Total			9



Question	Answers	Extra information	Mark
04.1	A series (circuit)	Answers in this	1
	B parallel (circuit)	order only.	1
04.2	ammeter		1
04.3	series circuit/circuit A:		
	 current is the same everywhere in the circuit 		1
	potential difference is split between the components		1
	parallel circuit/circuit B:		
	 current is shared between the components/branches 		1
	 potential difference is the same across the components in each branch 		1
04.4	the other bulb would stop working		1
	because the circuit is broken/current can no longer flow through the circuit		1
Total			9