



Charge and Static electricity				Series Circuits			Key Vocabulary	
I	Structure of the atom		I	Current	Is the same everywhere in a series circuit		-	-
		electron	2	Potential difference	Is shared between the components in the circuit.		Electron	A negatively charged particle that orbits the nucleus. Also carries charge in a circuit
		neutron	3	More bulbs = less bright		2	Proton	A positively charged particle found in the nucleus
2	Atoms	are normally neutral (no charge) because they have the same number of protons as electrons						
3	Static electricity	Caused by the rubbing together of two insulators. Friction causes electrons to transfer from one material to the other, leaving negative charge on one and positive charge on the other.		One bulb breaking = all bulbs go out		3	Neutron	A neutral particle found in the nucleus
4	Forces	Objects with the same charge will repel.				4	Current	The amount of charge flowing per second
	Objects with opposite charges will attract .			Parallel Circuits				
	Current, Potential Difference and Resistance			Current	Is shared between the different loops		Potential Difference	The energy supplied to each charge in the circuit
				Potential	Is the same on each loop	6	Resistance	A measure of how difficult it
I	Current	The amount of charge flowing per second.		difference				is for the current to flow
		Measured with an ammeter (always in series). Units are Amps (A) .	3	More bulbs = no change in brightness				
2	Potential difference	The amount of energy given to the charges by the cell or battery. Measured with a voltmeter (in parallel). Units are Volts (V).				7	Series Circuit	A circuit with only one loop
			4	4 One bulb breaking = only that bulb goes out				
3	Resistance	Measured in Ohms (Ω). Calculated using: resistance (Ω) = $\frac{\text{potential difference (V)}}{\text{current (A)}}$				8	Parallel Circuit	A circuit with more than one loop