Year 6

Knowledge Organiser Subject: Science Electricity

Components of a Circuit and their Symbols			Simple Series Circuit	Key vocabulary	Definition
Bulb	Cell	wire	In order for electricity to flow, a circuit needs 3 things: 1. A source of electricity		
	- - ⊢		<ol> <li>A source of electricity</li> <li>No gaps in the circuit</li> <li>Conductors</li> </ol>	Component	a part or element of a larger whole
			A series circuit has only one route for the current to take. If more <b>bulbs</b> or <b>buzzers</b>	•	
	Battery		are added, the power has to be shared	symbol	A visual picture that stands for something.
	- +- +-		and so they will be dimmer or quieter. If just one part of this series circuit breaks, the circuit is broken and the flow of		
•••	2.53		current stops.	Circuit diagram	A visual representation of an electrical circuit using symbols to represent the electrical components.
Motor	Buzzer	Switch (open)	What will make a bulb brighter?		
9			More batteries or a higher voltage		
		Switch (closed)	create more power There are more	2	
			to flow through the circuit.		
				Voltage	The force that
These symbols can be used to create electrical circuit diagrams.			What will make a bulb dimmer		makes electricity move through a wire.
			or a buzzer quieter?		
			Fewer batteries or		
			a lower voltage give less power to the circuit. More buzzers or bulbs mean the power is shared by more components.	"II Current	The flow of electricity measured in
					amps.

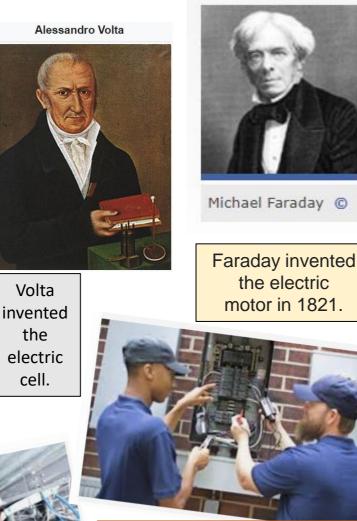
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Nikola Tesla

Tesla, whilst still a boy, thought of using Niagara Falls as an electric power source.





Electricians are:

- Scientists
- Everyday heroes
- Helping communities.



Remember to stay safe around electricity.