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Science: Electricity

Years 6

What do I already know?

- Identify common appliance that run on electricity;
- Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers;
- Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery;
- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit;
- Recognise some common conductors and insulators and associate metals with being good conductors.

What will be my new knowledge?

- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used on the circuit;
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches;
- Use recognised symbols when representing a simple circuit in a diagram.

Notable Scientists



Thomas Edison
1847 - 1931
Inventor and businessman

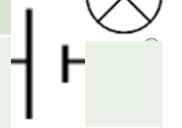
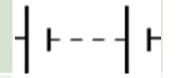
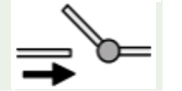
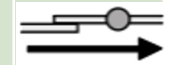
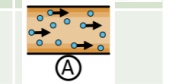
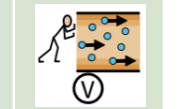
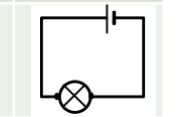


Nikola Tesla
1856 - 1943
Inventor, electrical engineer, mechanical engineer



Hertha Ayrton
1854 - 1923
Engineer, mathematician, physicist, inventor and suffragette

Key Vocabulary

Word	Definition	Visual
bulb	Glows when a circuit is complete.	
cell	Transforms chemical energy into electrical energy.	
battery	Two or more cells in series.	
open switch	The circuit is broken.	
closed switch	It connects the components in a circuit.	
buzzer	Buzzers when a circuit is complete.	
motor	Turns when a circuit is complete.	
current	The flow of electricity in a circuit.	
voltage	A measure of how strong the current is in a circuit. This is provided by a cell/battery.	
series circuit	A circuit where all the components are in one single loop.	
complete circuit	Circuits that do not have breaks in them.	
incomplete circuit	Circuits that have breaks in them, such as open switch.	

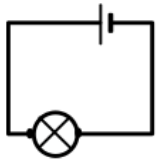


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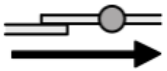
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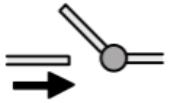
Years 6

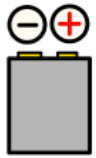
Key Vocabulary


circuit

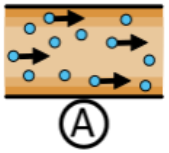

bulb

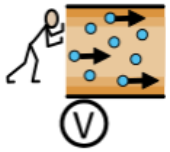

closed switch


open switch


battery


cell


current


voltage


buzzer


motor

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