

Year 6 Science : Electricity

Prior Learning

- I can name some appliances that run on electricity.
- I can make a simple series electrical circuit and name the parts I have used, including cells, wires, bulbs, switches and buzzers.
- I can work out whether a simple series circuit will work or not by looking at the parts and how it is put together.
- I can recognise some common conductors and insulators, and know that most metals are good conductors.

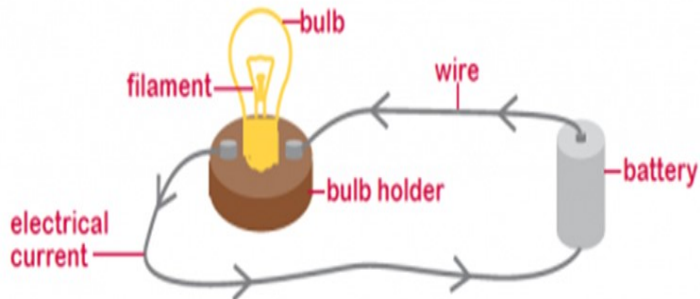
Sticky Knowledge

- I can explain how the voltage of cells in a circuit can change the brightness of a lamp or the volume of a buzzer.
- I can 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.
- I can draw a simple circuit diagram using recognised symbols.

Vocabulary

Ammeter	A device used to measure the electrical current.
Amps	What the electrical current is measured in.
Battery	A power source, where chemical energy is converted to electricity. It is usually a container consisting of one or more cells.
Bulb	A glass bulb which provides light by passing an electrical current through a filament.
Buzzer	A device that makes a buzzing noise when electricity passes through it.
Cell	A device containing electrodes that is used for generating current.
Circuit	A complete and closed path around which a circulating electric current can flow.
Circuit Diagram	A simple picture made up of lines and symbols to represent an electrical circuit.
Conductor	A material that can carry heat or electricity through it.
Current	A flow of electricity. This is because of the movement of electrically charged particles.
Electricity	Energy created by the movement of charged particles.
Electrons	Very small particles that travel around an electrical circuit
Filament	A conducting wire or thread that forms part of an electric bulb. The flow of electricity through it causes it to glow.
Motor	A machine powered by electricity that can be attached to a vehicle to make it move.
Resistance	The difficulty that the current has when flowing around a circuit.
Switch	A device for making and breaking the connection in an electric circuit.
Symbol	A visual picture that stands for something else.
Voltage	An electrical force that makes electricity move through a wire, measured in volts.

A Simple Circuit



A Simple Circuit Diagram

