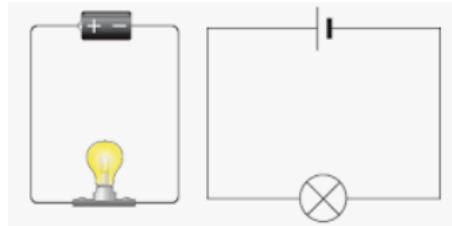
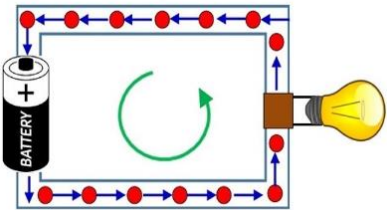
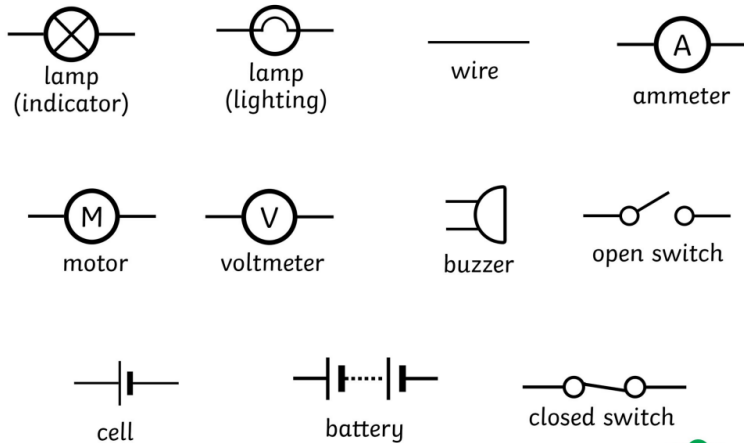




Year 6 - Summer 2 - Electricity



Electrical Circuit Symbols



Key Facts

Electrical components are represented as symbols. These are used to draw diagrams of circuits.

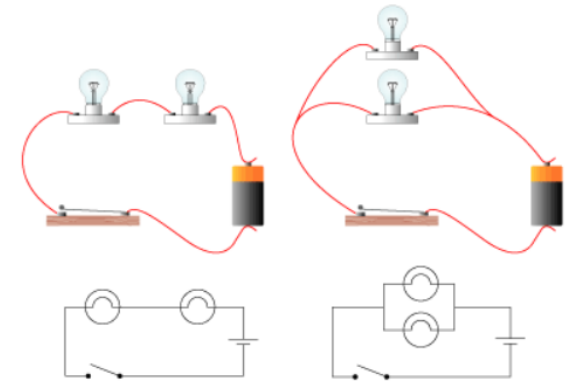
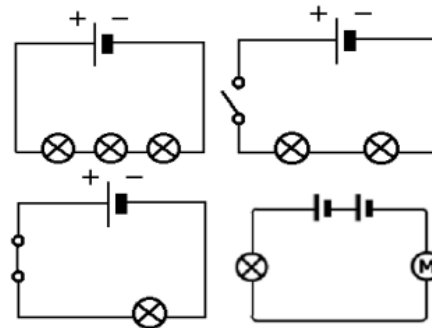
If more **components** are added, the electricity is shared between the **components** making the bulbs dimmer, the buzzes quieter and the motors slower.

To make the bulbs brighter, more batteries are required or a higher voltage. Shortening the wires would also brighten the bulb as it reduces resistance.

To make the bulbs dimmer, add multiple bulbs to a circuit, use less batteries and lengthen the wires in the circuit.

Bulbs in **parallel circuits** have the same brightness

Circuit Diagrams



Key Vocabulary

Cell/battery	A device that stores electricity as a chemical. A cell is a single unit, a battery is a collection of cells .	Resistance	The difficulty the electric current has when flowing around a circuit.
Current	The flow of electricity.	Electrons	Small particles that travel around an electrical circuit.
Amps	What the flow of electricity is measured in.	Series circuit	A simple loop with all components connected in a line.
Voltage	How strong a current is in a circuit. The greater the voltage, the more current will flow.	Parallel circuit	Two loops, both connected to the same battery, each with its own components.

