

electricity	<b>Electricity</b> is the flow of tiny particles in materials from one place to another.
mains	Mains electricity is a big electrical circuit so when you plug something in at home, you complete the circuit from your house to the power station and back again.
plug 🚜	A plug makes a connection between an appliance and the mains.
electrical circuit	An electrical circuit is a path electricity can flow around.
complete circuit	A circuit with a working power supply and an unbroken path so electricity can flow
cell	An electrical power supply. A cell has two ends, labelled + (positive) and – (negative). A cell pushes the electric current from the positive terminal round to the negative one.
battery	Two or more <b>cells</b> can be connected end-to- end to make a <b>battery</b> . Sometimes we call a single cell a 'battery', although technically we ought to say 'cell'.

**An electrical appliance or device** is a machine that uses electricity. Many household devices and appliances run on electricity.

Some plug in to the mains and others run on batteries.



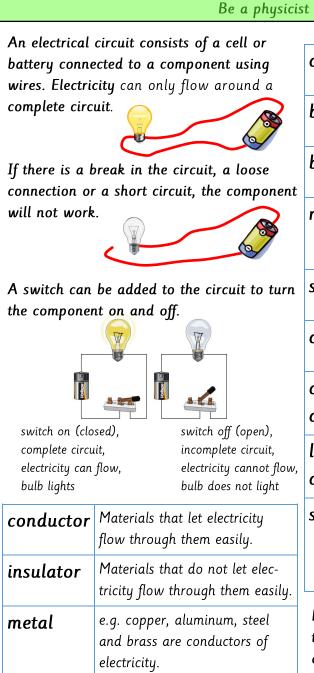








non-metal



Materials that are not metal eq

wood, plastic

component	Parts of an electrical circuit that do something when electricity flows through them.
bulb 💡	Bulbs light up when electricity passes through.
buzzer 💉	Buzzers make a sound when electricity passes through
motor	Motors move when electricity passes through and can be used to drive some- thing eg. a fan
switch	Opens and closes a <b>circuit</b> to control the flow of electricity.
crocodile clip	<b>Metal connectors</b> at the end of wires that clip to <b>components</b> .
connect/ connections	join / a link between electrical compo- nents
loose connection	If links between components in a circuit are not firmly joined
short circuit	A short circuit is a problem in an electrical circuit where two or more wires that are not supposed to touch come in contact with each other.

Metals are good conductors so they can be used as wires in a circuit. Non-metallic solids are insulators except for graphite (pencil lead).

plastic case

insulator.

copper wire

conductor

Water, if not completely pure, also conducts electricity.