



Vital Vocabulary

electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance.
mains	Electricity supplied through wires to a building.
appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or a mobile phone.
battery	A device that stores electrical energy as a chemical. Two or more cells joined together for a battery.
circuit	A pathway that electricity can flow around. It is based around wires and a power supply.
electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.
electrical insulator	Materials that are electrical insulators do not allow electricity to flow through them.

HIGH 5

Electricity is a type of energy.

Electrical conductors allow electricity to flow through them, whereas insulators do not.

Electricity can come from batteries. Batteries eventually run out of power and need to be recycled or recharged.

A circuit will only work if it is complete.

Common electrical conductors are metals and common electrical insulators include wood, glass, plastic and rubber.

Components (Parts) Vocabulary

cell: Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.



bulb: Lights up in a complete **circuit**.



buzzer: Makes a noise in a complete **circuit**.



wires: Used to connect the different components in the **circuit** together.



motor: Produces movement in a complete **circuit**.



switch: Used to turn other components in the **circuit** on or off.



Complete **Circuit**



Electricity can flow. The components will work.

Incomplete **Circuit**

There is a break in the **circuit** that prevents the **electricity** from flowing. The components will not work.



mains-powered



battery-powered

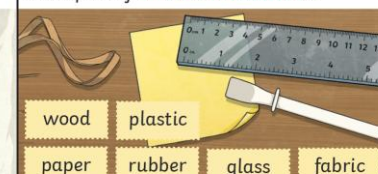


Key Knowledge

Examples of **Electrical Conductors**



Examples of **Electrical Insulators**



Electrical safety in the classroom:
We will only use battery power.
Report any damaged equipment to an adult.
Listen to the adult instructions when using equipment.
Connect and disconnect equipment carefully.



