



Science – Year 4 – Electricity



Concept: Energy travelling from one place to another – Using light, sound or electricity

Component parts of an electric circuit

Vocabulary

cell: the scientific name for a battery

conductor: a material that allows electricity to pass through it

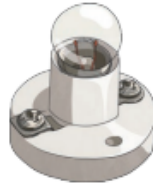
insulator: a material that does not allow electricity to pass through it

circuit: a pathway that electricity can travel through continually – with no start or end point

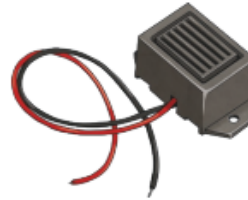
cell: Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.



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.



Symbols used to draw circuits



Battery



Wire



Bulb



Buzzer



Motor



Switch (off)



Switch (on)

Examples of Electrical Conductors



copper

steel

Examples of Electrical Insulators



wood

plastic

paper

rubber

glass

fabric

Many everyday **appliances** rely on **electricity** for them to work. Some **appliances** use **mains electricity** (are plugged into a socket) and others have a **battery** to make them work. Examples of **mains-powered appliances** include toasters and televisions. **Battery-powered appliances** can include mobile phones and torches.