

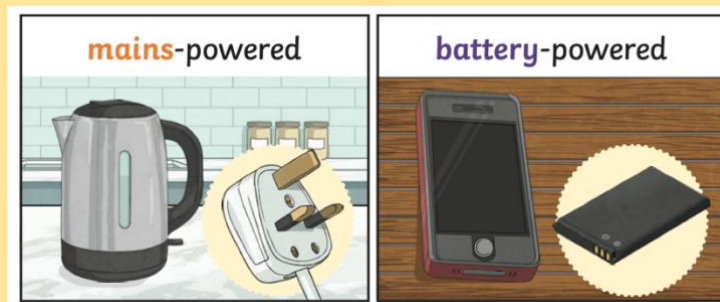
Year 2 Science Domain – Electricity and Magnetism

Key Vocabulary

Electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance or device.
Appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone.
Battery	A device that stores electrical energy as a chemical.
Circuit	A pathway that electricity can flow around. It is based around wires and a power supply. Examples of components (parts) you can add into a circuit are bulbs, wires and batteries.
Mains Electricity	Electricity supplied through wires to a building.

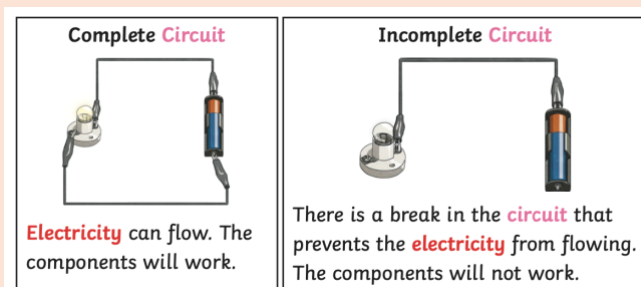
Appliances and Devices

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.



Building a Simple Circuit

- Electricity flows through a closed, or complete, circuit.
- Electricity does not flow through an open, or incomplete, circuit.



Electrical mains powered devices

The appliances with ticks use mains electricity. The others do not use mains electricity.



Static Electricity and Lightning

- Lightning is an example of static electricity.
- Static electricity requires surfaces.
- Electrical storms can cause power cuts.

