

What I already know:

Electricity is a form of energy and is used for heating and lighting, and to provide power for devices.

What I should know by the end of this topic:

- the difference between mains and battery electricity
- the difference between a conductor and insulator
- how to create a simple circuit
- be able to describe and name the properties of a circuit

Key vocabulary:

appliance - a device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical.

battery/cell - small devices that provide the power for electrical items such as torches

bulb - the glass part of an electric lamp, which gives out light when electricity passes through it.

circuit - a complete route which an electric current can flow around

component - the parts that something is made of

conductor - a substance that heat or electricity can pass through or along

current - a flow of electricity through a wire or circuit

energy - the power from sources such as electricity that makes machines work or provides heat

insulator - a non-conductor of electricity or heat

mains - where the supply of water, electricity, or gas enters a building

source - where something comes from

switch a small control for an electrical device which you use to turn the device on or off

Key questions

How does a circuit work?

How do I make a simple circuit?

What do I need to ensure the bulb turns on in the circuit?

What are the properties of a conductor?