

What should I already know?

- **Electricity** is a form of **energy** that can be carried by wires and is used for heating and lighting, and to provide **power** for **devices**.
- **Sources** of light and sound may need **electricity** to work.
- Where **electricity** comes from
- Which **appliances** need **electricity**
- What a **circuit** is, the **components** of a circuit and how it works.
- What **electrical conductors** and **insulators** are.
- What happens when a **switch** is added to a circuit.
- What **forces** and **resistance** are.

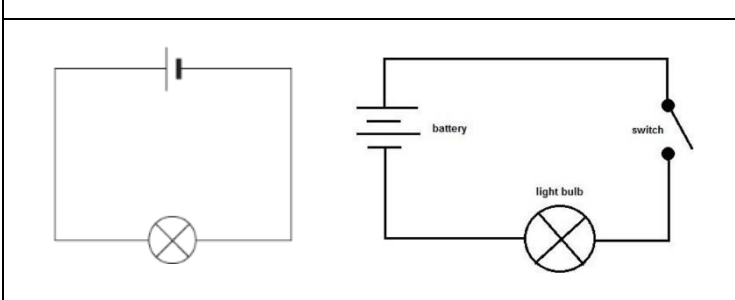
Big Ideas this works towards:

Energy, which cannot be created or destroyed, comes in many different forms and tends to move away from objects that have lots of it.

Circuit Symbols

Symbol	Component
	ammeter
	battery
	bulb
	buzzer
	cell
	motor
	resistor
	switch (open)
	switch (closed)

Diagrams



Vocabulary

ammeter	measures the current in a circuit
appliances	a device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical .
battery	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.
buzzer	an electrical device that is used to make a buzzing sound
cell	a synonym for battery
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
device	an object that has been invented for a particular purpose
electricity	a form of energy that can be carried by wires and in used for heating and lighting, and to provide power for devices
energy	the power from sources such as electricity that makes machines work or provides heat
fuel	a substance such as coal, oil, or petrol that is burned to provide heat or power
generate	cause it to begin and develop
insulator	a non- conductor of electricity or heat
mains	where the supply of water, electricity , or gas enters a building
motor	a device that uses electricity or fuel to produce movement
power	Power is energy , especially electricity , that is obtained in large quantities from a fuel source and used to operate lights, heating, and machinery.
resistance	a force which slows down a moving object or vehicle
resistor	a part of an electric circuit that provides resistance to some of the current
source	where something comes from
switch	a small control for an electrical device which you use to turn the device on or off
voltage	the force of an electric current as measured in volts
wires	a long thin piece of metal that is used to fasten things or to carry electric current