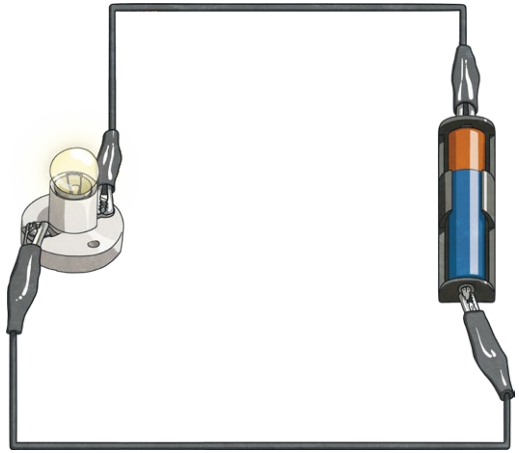
Key Vocabulary	
electricity	**Electricity** is a type of energy that can flow through certain materials, e.g. from a power source through wires to an appliance.
circuit	A **circuit** is a complete route that **electricity** can flow around.
cell	A **cell** is a component that converts stored chemical energy to electrical energy.
battery	A **battery** is a device that stores electrical energy as chemical energy. Two or more **cells** joined together form a **battery**.

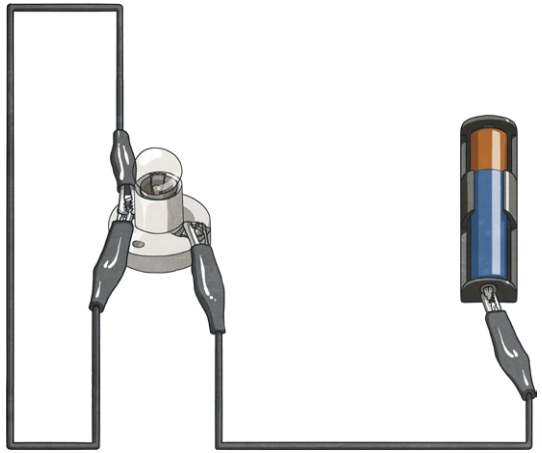
Complete Circuit

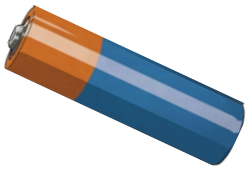
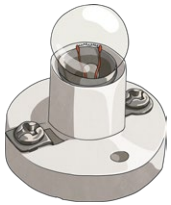
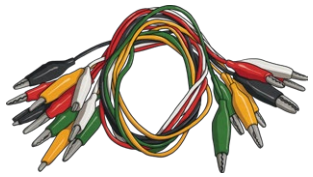
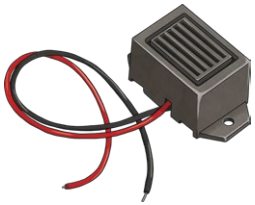
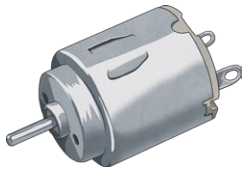
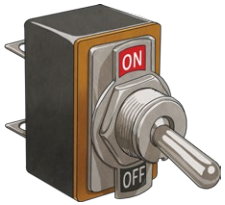
Complete **circuits** will work because the components are all connected as part of a continuous loop.



Incomplete Circuit

An incomplete **circuit** will not work because it will either be missing components or connected in such a way that it does not form a continuous loop.



Cell	Bulb	Wires	Buzzer	Motor	Switch
					
A **cell** is a component that converts stored chemical energy to electrical energy.	A bulb is an electrical component that produces light.	Wires are a component that connect other components together to create a **circuit**.	A buzzer is an electrical component that produces sound.	A motor is an electrical component that produces movement.	A switch is a component that controls the flow of **electricity** in a **circuit**.

Key Vocabulary

appliance	An **appliance** is a piece of equipment or device designed to perform a particular job.
electrical conductor	An **electrical conductor** is a material that allows **electricity** to flow through it.
electrical insulator	An **electrical insulator** is a material that does not allow **electricity** to flow through it.
mains electricity	**Mains electricity** is **electricity** supplied to buildings through a network of power lines.

Electrical Appliances

Battery-Powered Appliances

These appliances require the use of **batteries** as an electrical power supply.



Mains-Powered Appliances

These appliances require the use of **mains electricity** as an electrical power supply.



Non-Electrical Appliances

These appliances do not require the use of **electricity**.



Electricity Conductors



water



graphite



metal

Electrical Insulators



plastic



rubber



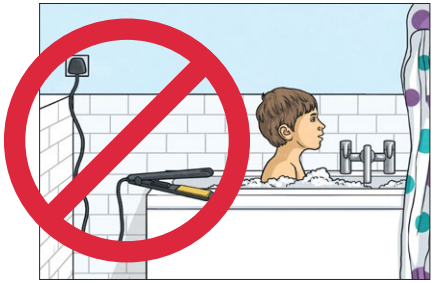
wood

Electrical Safety





Exposed electrical wires can cause electric shocks or result in fires.



Keep electrical appliances and components away from water.