

Electricity

Some appliances need electricity to work.

<u>Doesn't need electricity</u>	<u>Battery powered</u>	<u>Mains powered</u>
		

Materials which **let** electricity flow are **conductors**.



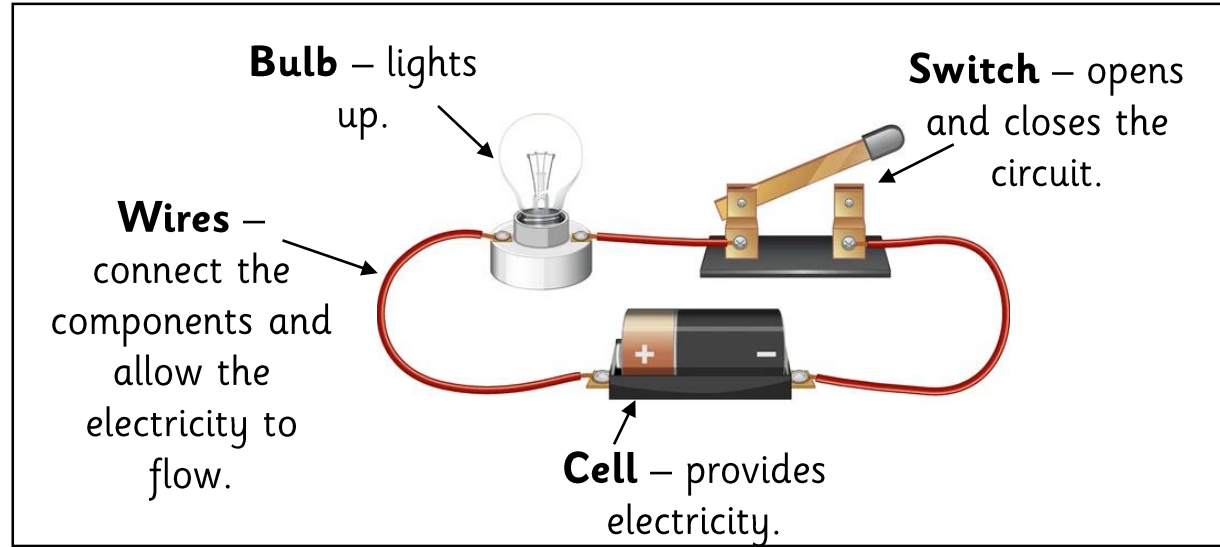
Materials which **do not let** electricity flow are **insulators**.



Electrical safety

- Always be safe and sensible around electricity.
- Never put your fingers or other objects in a socket.
- Never use electricity around water.
- Do not use damaged wires or plugs.
- Stay away from power stations and power lines.

Circuits



Other components:



Motor – spins around.

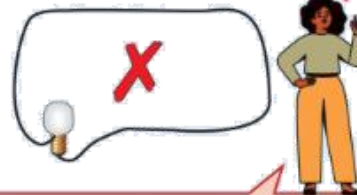


Buzzer – makes a sound.

A **complete** circuit must have a power source and no gaps.

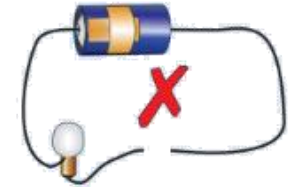
These bulbs **won't** light because:

1



the circuit has no battery.

2



there is a gap in the circuit.