

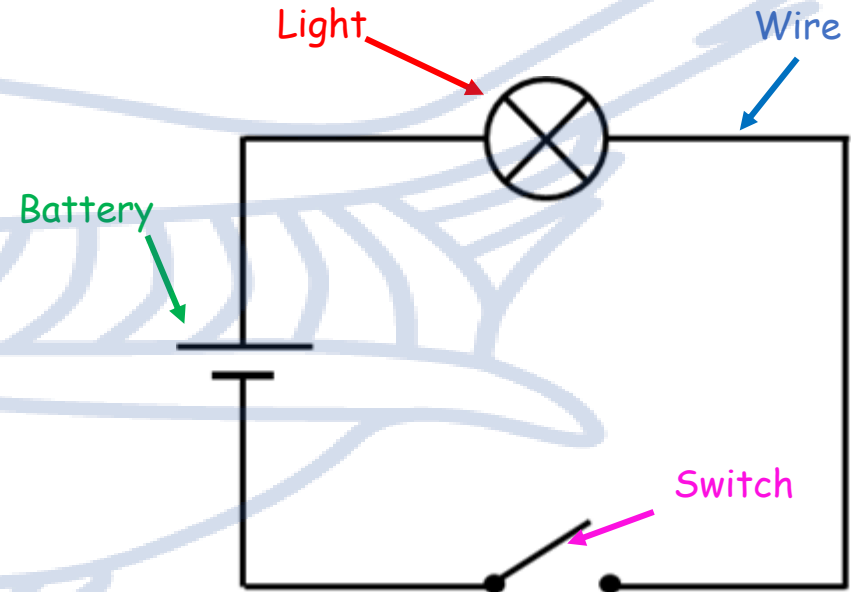
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Key Vocabulary

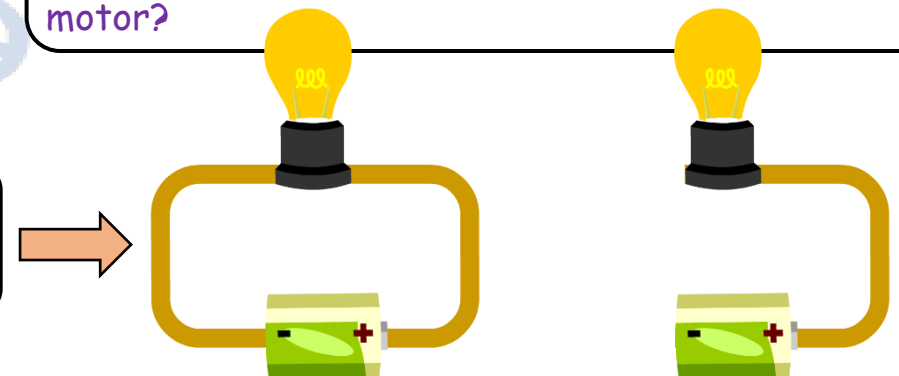
Circuit	A complete route around which an electric current can flow
Current	The amount of electricity flowing through a circuit
Voltage	The amount of electrical energy used
Conductor	An object that <i>does</i> allow electricity to flow through it easily
Insulator	An object that <i>does not</i> allow electricity to flow through it easily
Switch	A control for an electrical device which you use to turn the device on or off
Component	The parts that something is made of
Battery	Common components of an electrical circuit
Wire	
Light	
Buzzer	
Motor	

A circuit has to be complete for the electrical current to flow. If the circuit is broken, it will not work.
Which of these two circuits do you think will work?

Electrical Circuit



Electrical circuit diagrams use symbols and straight lines to make them easy to read and draw.
Can you find out the symbols for a buzzer and a motor?



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Electricity is very useful, but can also be very dangerous if it isn't used carefully.

How many devices in your home can you think of that use electricity?



Never leave electrical wires loose!



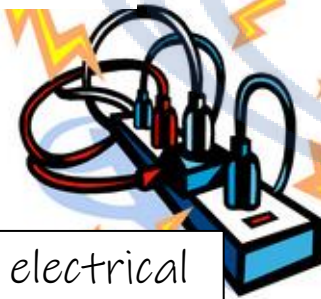
Electricity is generated in a power station using different sources such as coal, water, wind and the sun. It is then transported all over the country through large electrical cables.

Can you find out how these fuels are used to generate electricity?

Never use electrical items near water!



Don't overload electrical sockets!



Electrical wires are made of metal because it is good at conducting electricity, but they are wrapped in plastic because plastic is a good insulator.

How many other conductors and insulators can you name?

There are two types of electricity: current electricity comes from wall sockets and batteries, this is what we use to power devices. Static electricity builds up on a surface and then discharges in one spark.

Have you ever felt a static shock?

