

What is a circuit?

A circuit is a complete path around which electricity can flow.

It must include a source of electricity, such as a battery.

In a closed or complete circuit, electric current can flow.

When electric current flows, it can be used by electrical appliances, such as light bulbs.

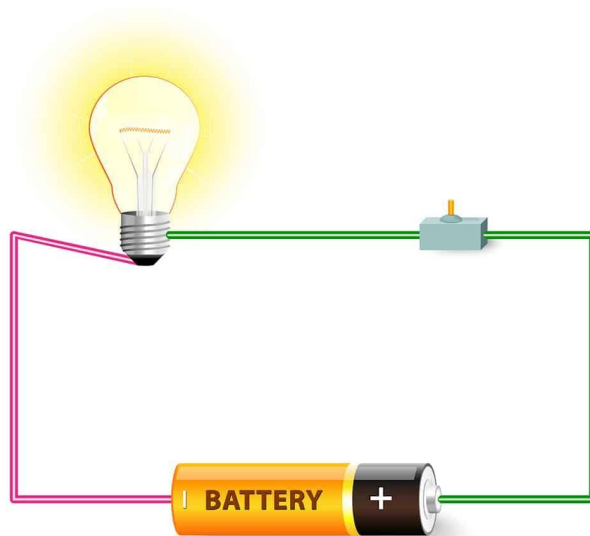
Metal is a good conductor of electricity, which means it can pass along the wire easily and well.

The plastic around the wire insulates the electricity. The electricity is very powerful, and the plastic keeps it contained so that it does not harm people or other objects.

Electric circuits have switches that allow you to control the flow of the electric current through the circuit.

When you flip a light switch in a room on, you are helping to complete the circuit. The current can then flow to the light or the bulb. When the switch is turned the other way, it breaks the circuit and stops the flow of the current.

SIMPLE ELECTRIC CIRCUIT



Lets see if you can make a circuit!

Click on the link below and start making your own circuit.

https://phet.colorado.edu/sims/html/circuit-construction-kit-dc-virtual-lab/latest/circuit-construction-kit-dc-virtual-lab_en.html

Remember that you will need wires, a battery and a light bulb, just like in the image above.

You can even add a switch.

Drag and drop what items you will need onto the blue work area.

Experiment with different objects and see if they can conduct electricity.

If your light bulb or battery goes on fire you have done something wrong, see if you can fix it!