



Y6 Thinking like a scientist

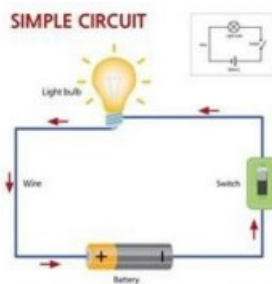
Electricity

Key Knowledge:

Circuit symbols:

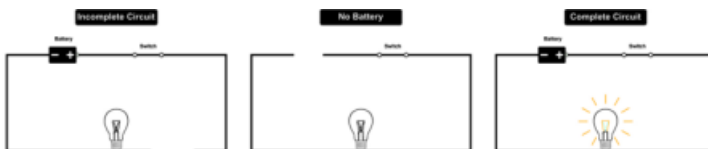


- Wires are always drawn with a straight line using a ruler in scientific diagrams.
- The **current** flows from negative to positive. There are no gaps - it is a **complete** circuit and the bulb lights up.

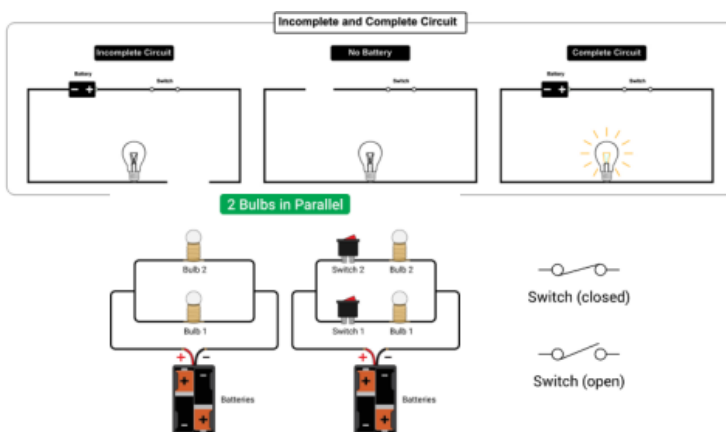


Different circuits:

Adding more cells (batteries) to a circuit will make bulbs **brighter**, buzzers **louder** and motors **faster**.



Switches can be placed in a **parallel circuit**, so that 1 light can be turned on while another is off (just like in a house).



Learning Questions

What are the components of an electric circuit?

What effect does voltage have on an electrical circuit?

How do I correct problems with-in a circuit?

What affects the output of a circuit?

Can I apply my knowledge of circuits to make traffic lights?

How can I demonstrate my knowledge of conductors and insulators?

What else do you know?