




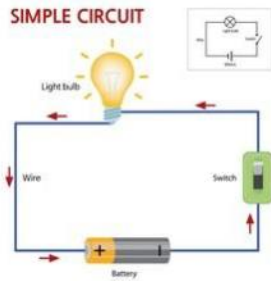
Lesson Sequence

-  **1. Describe the parts of an electric circuit**
-  **2. Explore voltage and its effect on an electrical circuit**
-  **3. Apply knowledge to identify and correct problems in a circuit**
-  **4. Investigate what affects the output of a circuit**
-  **5. Build a set of traffic lights**
-  **6. Apply knowledge of conductors and insulators**

Circuit Symbols

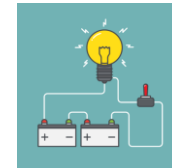
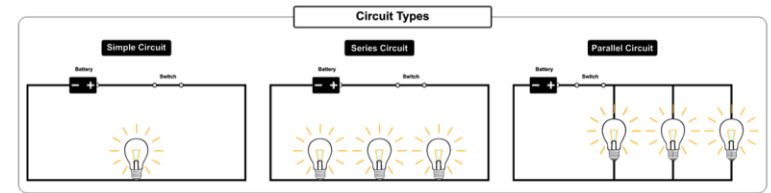


Wires are always drawn with a **straight line** using a **ruler** in scientific diagrams.

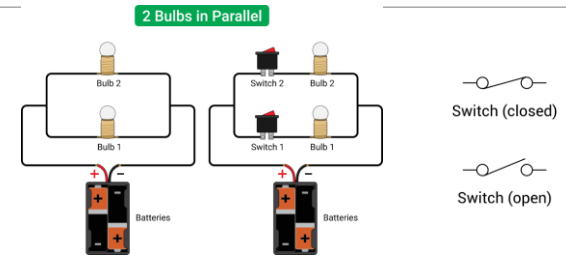
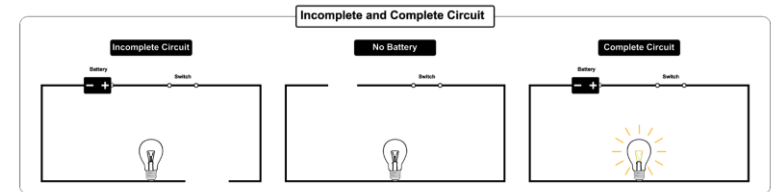


The **current** flows from negative to positive. There are no gaps - it is a **complete** circuit and the bulb lights up.

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).