
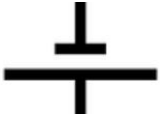



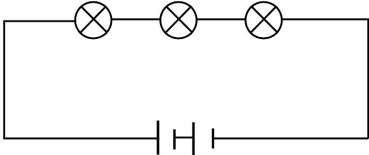
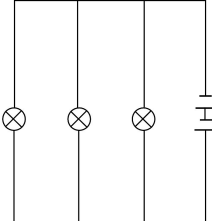
SOL 4.3 Electricity





Electricity is used every day. Humans transform electrical energy into different forms of energy to meet needs.

Current Electricity- The continuous flow of electrons.

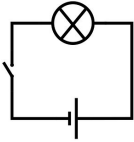
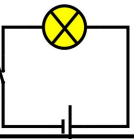
The **circuit** is a system composed of various functioning components. A **Circuit** is the path of an electric current.

A simple circuit consists of	
Bulb	
Battery	
Wire	

Series Circuit	Parallel Circuit
only one path. If one light goes out, they all go out.	Has more than one pathway. If one light goes out, the other circuit light stay on.
	

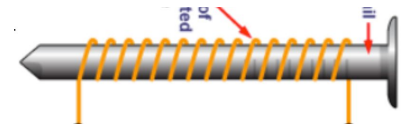
Insulators	Conductors
An object that DOES NOT allow electricity to pass. Examples: Rubber, Plastic, Wood	An object that DOES allow electricity to pass. Examples: Metal
 	 

If there is an opening in the circuit, electricity will not flow

Open Circuit	
Does not allow electricity to flow	
Closed Circuit	
allows electricity to flow	

Famous Scientists

Michael Faraday



Invented the non-permanent, yet, powerful electromagnet

Benjamin Franklin



Discovered lightning during kite and key experiment

Thomas Edison



Improved the filament. That made it so everyday people could afford it.