

Unit 5

Forms of Energy



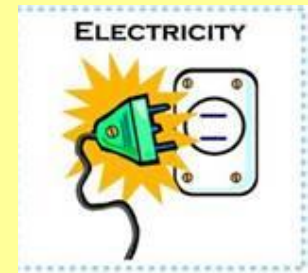
Electrical energy (Electricity)



energy that comes from the **flow** of **electricity (electrons)** through a **conductor**.

Uses electricity by:

- plugging a cord into an outlet
- Using a battery
- lightning



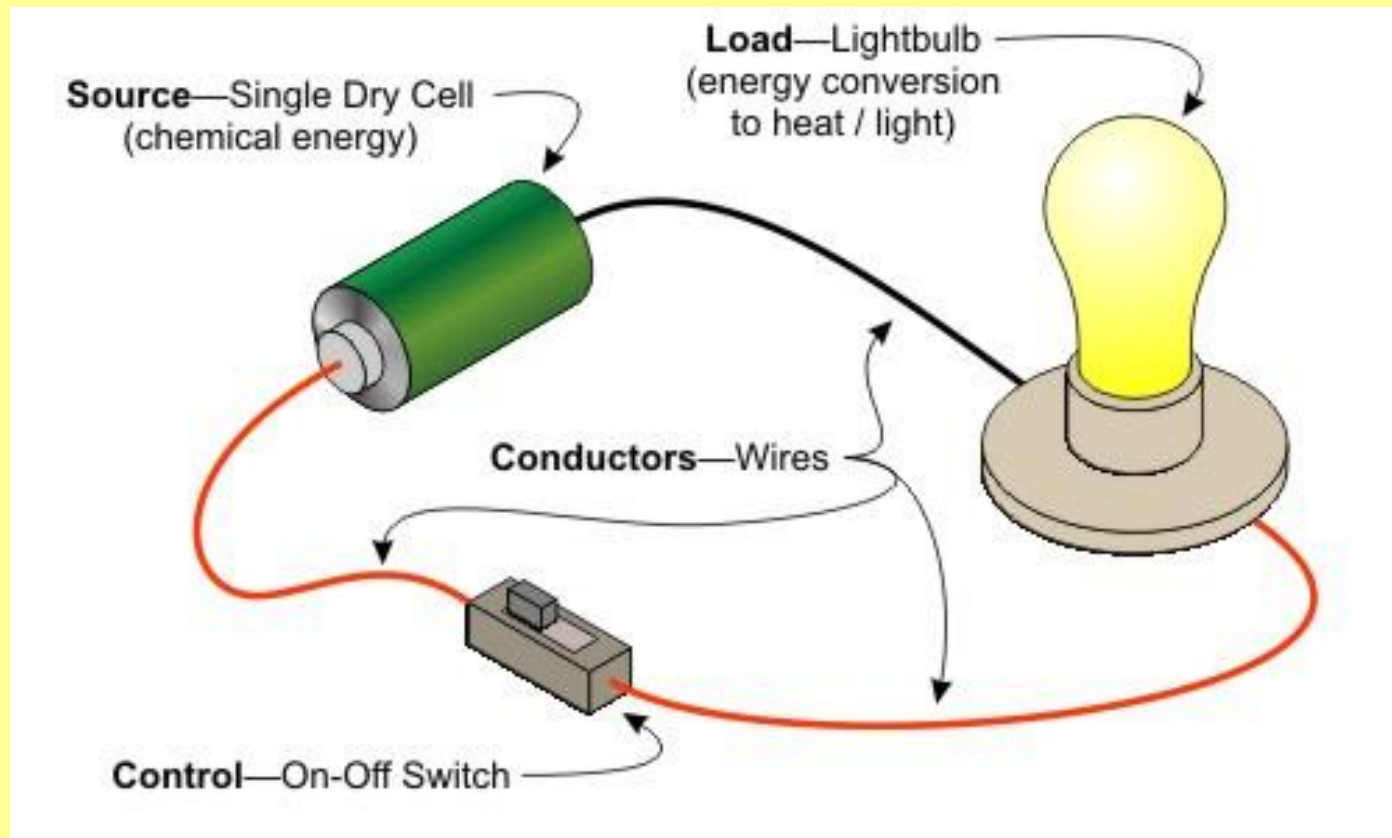
Current

A steady flow of energy



Circuit

A path for electrical current to flow through

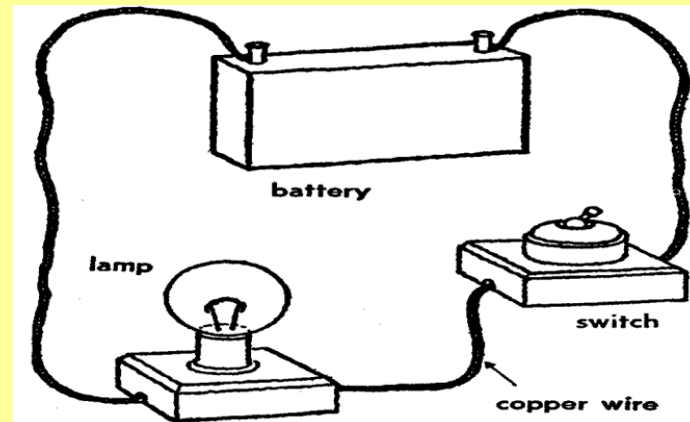
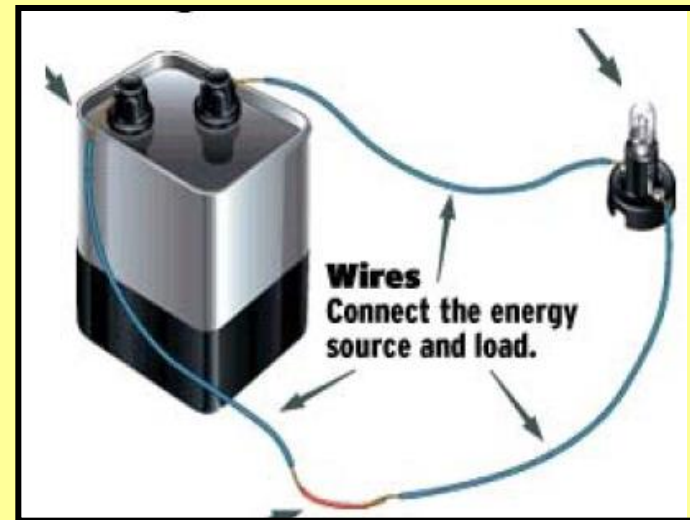


Closed Circuit (Complete or Working)

A closed circuit is a path that allows an uninterrupted endless path for flow of electricity.

A closed circuit is a continuous loop.

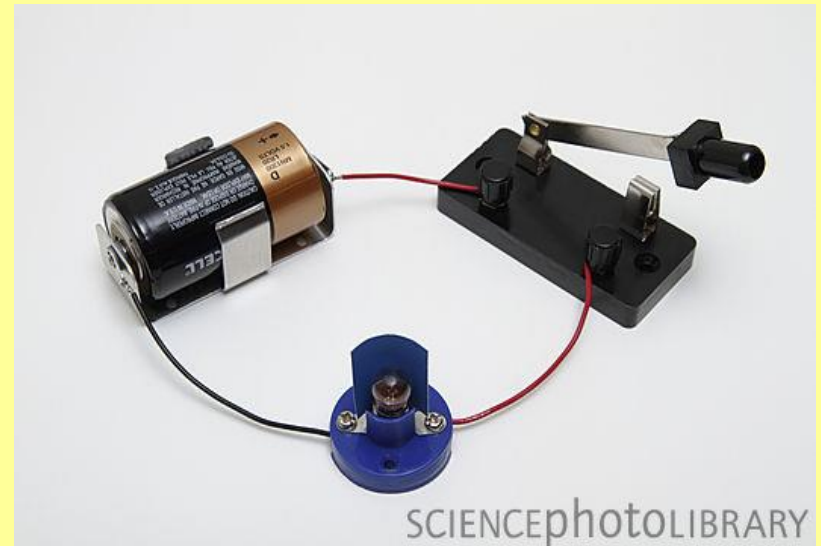
When a circuit is closed, the device works.



Open Circuit (Incomplete or Broken)

An open circuit has a gap in the loop.

When a circuit is open, the device will not work.



Load

What's getting turned on in a circuit
Ex: light bulb, fan, buzzer, cell phone



Power Source

Where the energy is coming from
Ex: battery, circuit breaker, plug

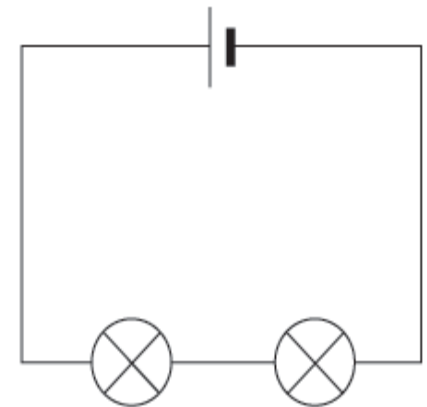
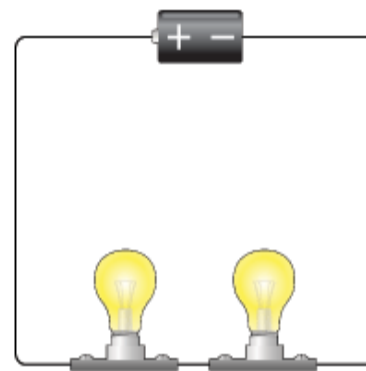
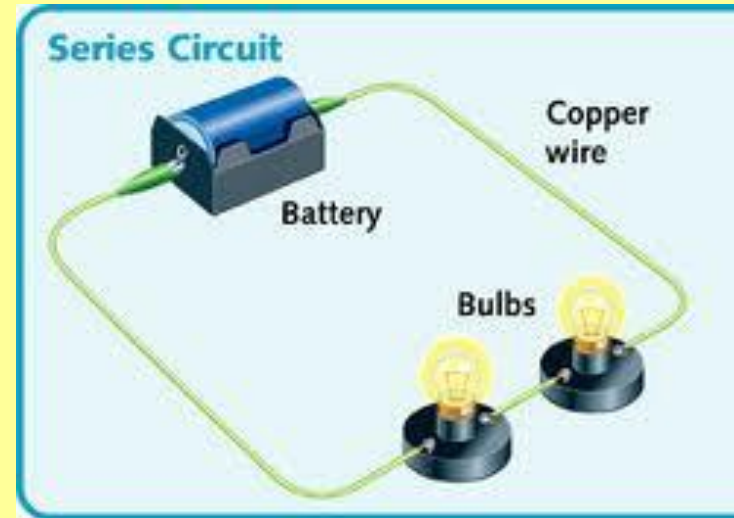


Series Circuit

All parts of a circuit in a single continuous path

Only **ONE** path for electric current

If one part breaks, the circuit is broken



Parallel Circuit

All parts of a circuit in multiple paths

Two or more paths for electric current

If one part breaks, the circuit **still works**

