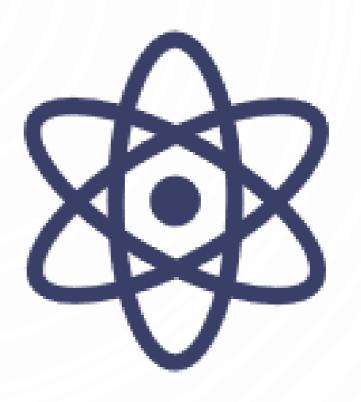


ELECTRIC CHARGES

- There are 3 particles that make up an atom, with 3 distinct charges:
 - Protons Positive
 - Neutrons Neutral
 - Electrons Negative





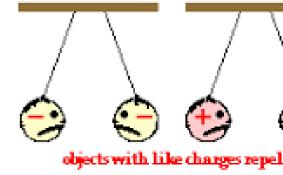


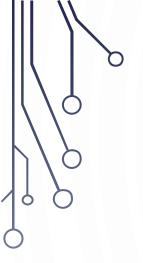
- Objects with the same charge <u>REPEL</u>
- Objects with different charges
 ATTRACT

In the world of static electricity ...



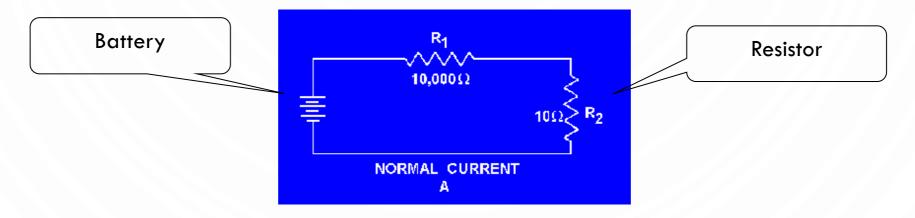
oppositely-charged objects attract AND





AN <u>ELECTRICAL CIRCUIT</u> IS ANY CONTINUOUS PATH FOR ELECTRONS TO FLOW AWAY FROM A SOURCE OF ELECTRICAL POTENTIAL (VOLTAGE) AND BACK AGAIN.

• From the word circle.



- For a circuit to work:
 - Complete circuit (no breaks in the path!).
 - NO short circuit or NO open circuit.



CIRCUIT COMPONENTS

1 Voltage Source

A circuit needs an energy source to push a charge through the circuit.

4 Resistor

An object added to a circuit that restricts the flow of electrical energy.

2 Load

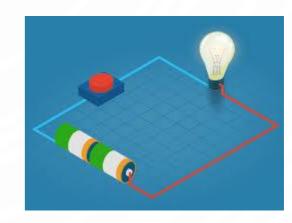
A device in a circuit that operates using electrical energy.

5 Switch

A device that is used to control the flow of current through a circuit.

3 Conductor

Materials that allows electrical energy to flow through it easily.



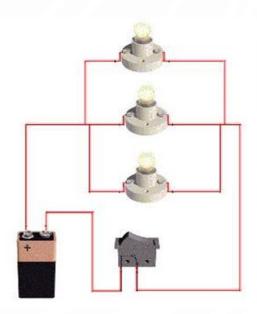


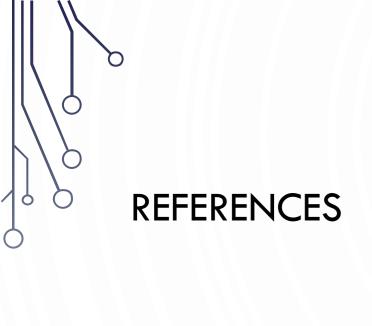


TYPES OF CIRCUITS

- Series Circuit
 - Provides only one possible path for the flow of current.
- Parallel Circuit
 - Offers more than one path for the flow of electricity.







- https://kids.britannica.com/kids/article/electriccircuit/443114#:~:text=An%20electric%20circuit%2 Ohas%20to,the%20current%20continues%20to%20fl ow.
- https://www.paulding.k12.ga.us/cms/lib/GA019036
 03/Centricity/Domain/1607/Electricity%20and%20
 Circuits.ppt
- https://slideplayer.com/slide/9560251/
- https://www.nasa.gov/stem-ed-resources/out-ofsight-activity.html