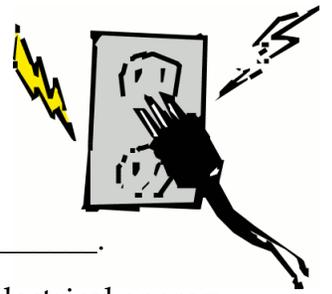


CURRENT ELECTRICITY



- Static electricity forms when charges remain on an object for a while.
- Current electricity forms when _____.
- Current is formed when a device changes other forms of energy into electrical energy.

CURRENT ELECTRICITY:

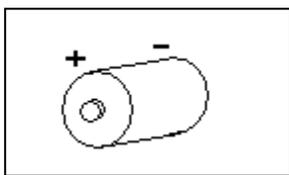
- Results from the _____ of
- The movement has TWO components:
 - A. _____ - **measured in Volts (v)** - similar to water pressure
 - B. _____ - **measured in Amperes (A)** - similar to water flow
(how much water past a certain point in one second)

VOLTAGE (V):

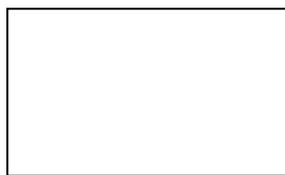
- To make electrons move, they have to be pushed. They are forced along a metal in one direction.
- This push is called voltage or _____.
- Measured in _____ by a device called a _____.
- It can be described as a measure of the electrical pressure produced by battery or power supply.

We get electrical energy from a _____.

Two or more chemical cells joined together is a _____.



Cell

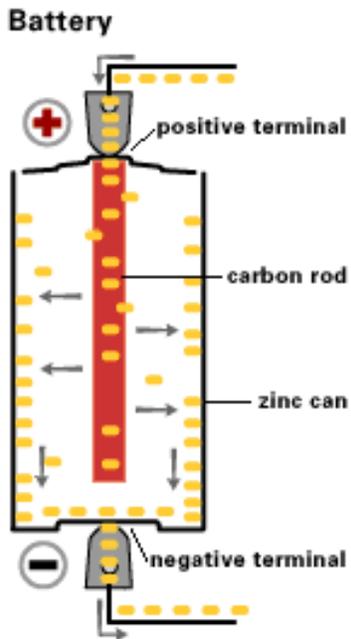


(symbol in schematic diagrams)

BATTERIES:

Batteries produce a _____ by using _____ to produce a difference in electrical potential energy between the positive and negative terminals.

Electrons are pushed from the _____ terminal to the _____ terminal.

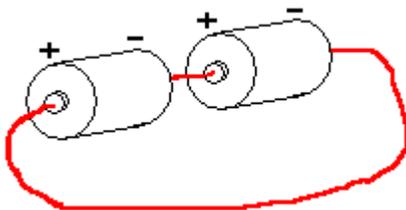


- ❖ The size of the _____ is called _____
- ❖ Electrons at the negative terminal are _____ and therefore have _____ (pressure) and want to get away from each other.

Batteries can be connected in **TWO** ways:

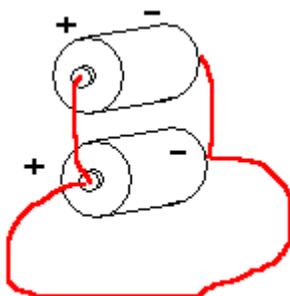
1) **SERIES:** _____.

Schematic Diagram:



2) **PARALLEL:** _____.

Schematic Diagram:



SHORT CIRCUIT:

If a circuit is interrupted allowing a current to travel down an _____ path, it causes too much _____ in a wire. That is called a _____.

The excessive current can either cause the power source (like a _____) to heat up, “short” and be destroyed; or a _____ (if it is doing its job) to blow, breaking the flow of current in the circuit.

At home, a short circuit can be _____ and _____ to your appliances and electronic devices. The most common cause of a short circuit in the home is _____ touching when they shouldn't.

