**Potential Difference (Voltage):**

* Electrons flow through a conductor when there is a \_\_\_\_\_\_\_\_\_\_\_\_\_ of electrons at one pole of the energy source and a \_\_\_\_\_\_\_\_ at the other pole. The electrical \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the two poles is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Although the electrons have the ***potential*** for doing work, they cannot do so until the cell is connected to a \_\_\_\_\_\_\_\_\_\_\_ and the circuit is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* ***Potential Difference (V)*** – the \_\_\_\_\_\_\_\_\_ between two points in a circuit.
* It is measured with a \_\_\_\_\_\_\_\_­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The **units** are \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **increases** the energy
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **decreases** the energy

**Voltmeter**

* measures the \_\_\_\_\_\_\_\_\_ in electrical energy or “pressure” between two points in a circuit
* always connected in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because it must read the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the circuit

The **voltmeter** shows the drop in energy

 from this point

 to this point

**Video: Electricity – Potential Difference**

1. If the same amount of current makes one light bulb brighter than another light bulb, which electrons are giving up more energy?

***Answer:*** The ones flowing through the: bright / dim bulb (circle correct word)

1. Connecting wires are chosen to allow electrons to pass with little loss of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Potential difference is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the symbol is \_\_\_\_\_\_\_.
3. Good conductors have \_\_\_\_\_\_\_\_\_\_\_ potential difference.