**Electricity Notes 2**

**Voltage (V) or Potential Difference**

* is the energy that the charges possess
* is the energy that the charges lose as they pass over a resistor
* is measured in Volts

Voltage = Energy

 Charge

V = \_\_\_\_\_\_\_\_\_

1 Volt = \_\_\_\_\_\_\_\_\_

**Current (A) or Current Intensity**

* is the number of charges that pass a certain point in a given time period
* is measured in Amps

Current = Charge

 Time

I = \_\_\_\_\_\_\_\_\_\_\_

1 A = \_\_\_\_\_\_\_\_\_\_\_

**Resistance (Ω)**

**Rules for Series Circuits**

**1 path for the electrons to travel along**

**VT = V1 + V2 + …**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**IT = I1 = I2 = …**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RT  or Req = R1 + R2 + …**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rules for Parallel Circuits**

More than 1 path for the electrons to travel along

**VT = V1 = V2 = …**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**IT = I1 + I2 + …**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1 = 1 + 1 + …**

**RT R1 R2**

**English:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_