**Introduction to Ohm's Law Lab**

**Purpose:**

* to determine the relationship between voltage and current

**Procedure: Remember to check your wires with a light bulb first.**

1) Set up the following circuit:

2) Set the voltmeter to 1 V and read the ammeter in mA.

Change the voltmeter to 2 V and read the ammeter etc.

Take as many readings as possible--go big or go home--5 is the absolute minimum!

**Observations:**

**Analysis:**

**1)** What is the independent variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the dependent variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2)** You are to graph your data the incorrect way!

You are to graph the dependent variable on the x-axis and the independent variable on the y-axis. I will never ever ask you to do this again!

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**3)** On the graph, determine the slope--show all math.

**4)** What is the trend? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Conclusion:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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