

Physics Lab Report:

Reminders:

- Past Tense
- No I, we, us, my group, the experimenters...etc in the report.

- **Abstract**
 - **(Briefly)** What was tested and how was it done?
 - If using the purpose of the lab, write in past tense.
- **Introduction:**
 - What are the basic components needed to build a circuit?
 - Explain/define the variables involved (Electric Potential Difference (voltage), current, and resistance). Consider including any formulas involved.
- **Procedure:**
 - State what equipment was needed
 - Give the basic details of the set-up and data taken in Parts I through IV.
 - What values were tested and recorded?
 - No results yet!
- **Data:**
 - No extra data needed other than the lab itself.
 - Make sure all graphs are complete and lab questions answered completely.
- **Error Analysis:**
 - **Remember, no experiment is perfect.*
 - What went wrong or could have contributed to inaccurate data? (Think of things you believe may actually have happened during the lab)
 - What could be done to limit or avoid these errors in the future?
- **Analysis:**
 - **Use your data to PROVE your statements**
 - Part I: Was there any difference between the printed values on the resistors and the experimental values? Give an explanation for any observations.
 - Part II: What was the relationship between voltage and resistance?
 - Part III: Were there any patterns or repetitions in this section? Give an explanation for any observations.
 - Part IV: What was the relationship between current and resistance?
- **Conclusion:**
 - Based on the results in this lab, what is Ohm's Law?
- **Works Cited**
 - Lab reports are always much more convincing if other scholarly sources such as physics websites or textbooks are cited.
 - Make sure that an in-text (parenthetical) citation is used in the body of the report and a complete MLA-style citation is done on your works cited page.
 - If you are unsure of what is involved in an MLA citation, take a look at Purdue's Citation Guide (<https://owl.english.purdue.edu/owl/resource/747/01/>)