Lab Write-Up Procedures

**TITLE**, **CLASS, PARTNER(S) & DATE:** On cover sheet

**ABSTRACT:** The abstract is written after the lab is performed and is a detailed explanation of the experiment. In the abstract you will summarize what you were investigating, how you went about your investigation, results and data, as well as your conclusion. Needs to be 200-300 words long and be on its own page. HINT: If you start by writing a sentence for each section of your lab report you should be on target to fulfill the requirements.

**PURPOSE:** One sentence explaining the point or objective of the experiment **in your own words**.

**PROCEDURE:** Explain the steps (including materials used) you followed for your experiment in paragraph form. Highlight any safety precautions. Use third person, past tense, passive voice. Do not list out the materials! Do not bullet point anything!

**DATA AND OBSERVATIONS:**

**Data Table** - Use a title, headings and units. A sample Data Table is shown below. Do not include units in the box with the data. Somewhere within your data section you need to tell me the average of the data that you collected, as well as the high and low values for the range of acceptable data.

Table 1: Raw Data of Velocities of Multiple Objects

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Distance (m)** | **Time (s)** | **Velocity (m/s)** |
| **100 g** |  |  |  |
| **250 g** |  |  |  |
| **500 g** |  |  |  |

**ANALYSIS:**

**Calculations** – Explain how you did your calculations. Include all calculated values in a new table. Include all **PHYSICS** calculations other than finding the average or calculating error. Show an example of all calculations that you perform.

**Graphs** – *(Where appropriate)* Every graph should have a proper title and the axes must be labeled, including appropriate units in parentheses. Explain what your graph depicts.

**Error Analysis** – Describe two sources of systematic error or places where your experiment could have resulted in incorrect data. Calculate *(where appropriate)* absolute and relative error and present in a table.

**Questions** – Rephrase all questions given in a lab, and then answer in complete sentences.

**CONCLUSION:** Generally a few sentences **BRIEFLY** stating the findings of the experiment. What did you find, learn, discover, verify, etc? Statements about your like or dislike of the lab are **NOT** appropriate.