Physics 201 Lab Report Grading Rubric

<table>
<thead>
<tr>
<th>Total Score</th>
<th>/ 20</th>
</tr>
</thead>
</table>

**Summary**
- Clearly summarizes the experiment, results, and conclusions.  /
- 5
  - Report does not contain a summary.
  - Report is missing one of the requirements.
    a) Does not contain a brief statement about the experimental procedure.
    b) Does not contain a brief statement about the results.
    c) Does not contain a brief statement about the conclusions.
  - Report contains surplus information.
  - Summary allows the reader to understand the basics of the laboratory by reading a few sentences.

**Experimental Procedure**
- Laboratory procedure is clearly explained.  /
- 5
  - Report does not contain an experimental procedure section.
  - The procedure used in the experiment is described but is difficult to understand and would be hard to reproduce.
  - The procedure used in the experiment is described but incomplete.
  - Report contains a description of the procedure, providing enough information that someone else could reproduce the experiment.

**Results/Discussion**
- Analysis is clearly explained and appropriate visuals are described in words.  /
- 5
  - Report does not contain a results section.
  - Report does not contain appropriate graphs, equations, and/or quantities
  - Report contains appropriate graphs, equations, and/or quantities with no explanation.
  - Report contains appropriate graphs, equations, and/or quantities with confusing or incomplete explanations.
  - Report has clear verbal explanations accompanying all appropriate graphs, equations, and/or quantities.

**Conclusions**
- Consequences of the study are clearly communicated.  /
- 5
  - Report does not contain a conclusions section.
  - Report does contain conclusions section, but the main physics principles are not clearly stated or they are poorly developed.
  - The report’s conclusions section clearly communicated the main physics principles and ideas that were used and discovered in the laboratory.
### Graphs

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/-5</td>
<td>No relevant graphs are presented.</td>
</tr>
<tr>
<td>/-3</td>
<td>Some important data that should have been represented in graphical form have not been included.</td>
</tr>
</tbody>
</table>
| /up to -2 | Graphs are confusing or improperly prepared, including  
  a) No title  
  b) Axis is not correctly labeled  
  c) Data runs are not correctly labeled  
  d) Units are not present |
| / 0   | The report should make use of appropriately constructed graphs whenever needed in order to explain results. |

### Overall quality

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/-5</td>
<td>Report is carelessly written in very poor English, and is impossible or difficult to understand.</td>
</tr>
<tr>
<td>/-3</td>
<td>Report is written in poor English that detracts from its quality.</td>
</tr>
<tr>
<td>/-1</td>
<td>Report is by and large well written, but contains occasional errors in grammar or spelling that detract from its quality.</td>
</tr>
<tr>
<td>/-1</td>
<td>Report is poorly organized.</td>
</tr>
<tr>
<td>/ 0</td>
<td>The report should be well written in clear, grammatically correct, and engaging English.</td>
</tr>
</tbody>
</table>