

Intermediate Laboratory – PHX 3870

Laboratory Report Evaluation

Author: _____

Date: _____

Partner: _____

Grade: _____

Experiment: _____

Format: Full / Brief / Notebook

General Comments:

Comments on Science:

Comments on Writing:

Other Comments:

A LAB REPORT SHOULD:

- ___ Identify the problem (system) to be studied.
- ___ Identify the input(s) and outputs(s) to be studied.
- ___ Describe the approach to use outputs to tell how the inputs affect the system and its outputs.
- ___ Propose a model to test.
- ___ Describe the results of your observations.
- ___ Describe the quality of the observations.
- ___ Determine the effectiveness of your model.
- ___ Discuss generalization of the model.

CONTENT OF A LAB REPORT

Title page:

- ___ Title of lab
- ___ Experimenter's and partner's names
- ___ Class name and number
- ___ Date of completion of experiment and report

Introduction:

- ___ Statement of purpose - What do you plan to accomplish? Why is the lab interesting or important?
- ___ What are the important physical principles explored in the experiment?

Theory:

- ___ Any appropriate scientific or historical background
- ___ Any appropriate discussions of theory
- ___ Any appropriate derivation of equations*

Procedures:

- ___ List of apparatus*
- ___ Diagram of experimental setup*
- ___ Details of procedures you used; what was done and how it was done. Emphasize procedures different from those outlined in manual

Results:

- ___ List of data* (Tabular or graphical format is best)
- ___ Methods of analysis including sample calculations
- ___ Discussion of error analysis

Discussion and Conclusions:

- ___ Summary of results
- ___ Summary of error analysis
- ___ Significance of results - how does this verify the basic physical principles
- ___ Summary of what you learned

*May be appropriate to put these items in an appendix.

E-Excellent V-Very Good G-Good N-Needs Work X-Absent or Inadequate √-Satisfactory