

Lab Report Grading

The points are cumulative and total so that the complete lab report is worth 18 points.

Header

- ___/ ¼ title
- ___/ ¼ author with partners
- ___/ ¼ date
- ___/ ¼ organization (DACC PHYS ___)

___/ **1 Total**

Table of Contents (APA Style)

- ___/ ½ headings
- ___/ ½ corresponding pages numbers
- ___/ ½ list of tables and figures
- ___/ ½ indicates contents of appendix

___/ **2 Total**

Abstract

- ___/ ½ topic & purpose
- ___/ ½ statement of expected results
- ___/ ½ process of obtaining results (brief include only information on the variables collected and analysis techniques NOT lab setup or apparatus)
- ___/ ½ statement of results with percent error

___/ **2 Total**

Introduction & Discussion

- CT ___/ ½ statement of purpose identifies & summarizes the problem
- CT ___/ ½ why is this lab & topic important
- ___/ ½ complete historical discussion with citation
- ___/ ½ expanded experiment detail
- ___/ 1 derive the equation used from scratch
- CT ___/ ½ clarify variables
- ___/ ½ reference to sample calculations
- ___/ ½ elaborate on concepts and define terminology
- CT ___/ ½ statement of assumptions

___/ **5 Total**

Procedure

- ___/ ½ give a list of materials with brand names
- ___/ ½ detailed procedure with diagram
- CT ___/ ½ detailed description of troubleshooting used
- CT ___/ ½ detailed analysis method

___/ **2 Total**

Data & Results

- ___/ ½ reference to objective
- ___/ ½ description of data table & graphs
- CT ___/ 1 trends or patterns illustrated by data

___/ **2 Total**

Summary

- ___/ ½ brief reference to purpose & procedure
- CT ___/ ½ list results & accurate conclusions
- ___/ ½ statement of % error
- CT ___/ ½ sources of error and their effects on results

___/ **2 Total**

Appendix

- ___/ ¼ reference list
- ___/ ¼ calculation page
- ___/ ¼ propagation of uncertainty
- ___/ ¼ handwritten data

___/ **1 Total**

Calculation Page

- ___/ ¼ states and describes equations used
- CT ___/ ¼ provides qualification for equation
- ___/ ¼ defines variables
- ___/ ¼ provides example calculations

___/ **1 Total**

Score: _____ / 18 total points.

Critical Thinking [Separate Score]

- ___/ determines when additional information is needed
- ___/ explains reasons for assumptions
- ___/ evaluates credibility of lab
- ___/ identifies salient arguments: pros & cons
- ___/ thoughtfully evaluates alternative pts of view
- ___/ draws warrantee conclusions
- ___/ fair-mindedly follows evidence
- ___/10 number of CT credited above.

___/ **17 Critical Thinking Score**

Additional points can be deducted for:

- incomplete work
- lack of accuracy
- errors in calculation
- lack of reference
- failure to clean lab area
- failure to take an active role in the experiment
- mislocation of section material
- horse play or safety violations (results in zeros)
- lack of proofing
- lack of trials
- anything else that suits my fancy
- lack of professionalism
- improper format
- errors in interpretation
- misconceptions