

# LAB REPORT FORMAT AND CONTENT GUIDELINES

Please follow the instructions below when writing a lab report. Although you report must follow the format, there is room for individual creativity within the report. In general the lab should follow APA rules. The report should be typed except for the calculations which may be written. Citations and bibliography are absolutely essential to a good lab report. Please do NOT use .com websites; .edu and .org are much better.

**TITLE:** The number and title of the lab, given either in during lab or a lab handout.

**ABSTRACT:** a very brief (short paragraph) summary of the theory or hypothesis, procedure, results and conclusion. Although the abstract is sequenced at the beginning of the report, you may find it helpful to write it last chronologically.

**INTRODUCTION:** The introduction resembles a short term paper and it should review the theory or hypothesis you are testing. The introduction is where you discuss the theory, hypothesis or law you are testing experimentally. In the intro you should:

- 1) Define and explain the primary theory you are testing. Include definitions and examples, if there is a reaction or equation explain its use and meaning.
- 2) Include illustrations, photos and concept maps where appropriate. Be certain you include citations for these.
- 3) Apply the theory to everyday life as instructed for a particular lab.

## **EXPERIMENTAL DESIGN (PROCEDURE):**

- 1) For each step of the a given procedure handout, explain:
  - a. What data is generated?
  - b. Why is this step performed?
  - c. Apply the theory to the lab procedure step
- 2) For labs where you design the procedure, present the steps as above except the procedure will be in the prelab.
- 3) Generally the procedure of a scientific publication is in paragraph form, however we will present in steps until third quarter begins.

## **DATA:**

- 1) List numerical data in a table, with units clearly written. Be certain you report each number with the correct number of significant figures as indicated on the equipment you are using.

## **OBSERVATIONS:**

- 1) List any qualitative observations in a well organized table or list.
- 2) For labs with numerical (quantitative) data, you also should record any observations and present them in a table.

## **CALCULATIONS:**

- 1) Present the equation, define the variables.
- 2) Show substitutions of variables and constants.
- 3) Present unit cancelling (dimensional analysis).

# Lab Report Guidelines

**AN Whitehead**



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