# **Lab Report Template**

*3.3.3: Effectively communicate and defend scientific claims in written form*

**Title:** \* a brief, concise, yet descriptive title

**Purpose:** *(3.2.3: Accurately identify the purpose of a scientific experiment)*

\* What question(s) are you trying to answer? What is the point of doing this lab?

\* Include any preliminary observations or background information about the subject (make sure to do this in your own words; don’t just copy from the lab handout. Be concise!)

**Hypothesis:** *(3.2.4: Generate a testable hypothesis)*

\* Write a possible solution for the problem.

\* Make sure this possible solution is a complete sentence.

\* Make sure the statement is testable; an if-then statement is recommended to illustrate what criteria will support your hypothesis (and what data would not support the hypothesis).

**Scientific Background:**

\* Define the major scientific principles used in this lab.

\* If there are any specific laws, state them here. This is not a place to discuss your project specifically, but a place to discuss the science behind it all.

**Materials:**

\* Make a list of ALL items used in the lab. Alternatively, materials can be included as part of the procedure.

**Procedure:**

\* Write a paragraph (complete sentences) which explains what you did in the lab as a short summary.

\* Add details (step-by-step) of your procedure in such a way that anyone else could repeat the experiment. Rewriting in your own words is best - don’t just copy the procedure word-for-word.

**Results (Data):**

\* This section should include any data tables, observations, calculations, or additional notes you make during the lab.

\* You may attach a separate sheet(s) if necessary.

\* All tables, graphs and charts should be labeled appropriately.

**Conclusions:**

\* Accept or reject your hypothesis. *(3.2.1: draw scientific conclusion based on evidence)*

\* EXPLAIN why you accepted or rejected your hypothesis using data from the lab. *(3.3.4: justify whether or not a hypothesis was supported or rejected)*

\* Include a summary of the data - averages, highest, lowest, etc. to help the reader understand your results. Try not to just copy/re-state your data here; you should summarize and reference KEY information. *(3.3.1: justify a scientific conclusion based on evidence)*

\* List one thing you learned and describe how it applies to a real-life situation.

\* Discuss possible errors that could have occurred in the collection of the data (experimental errors) (*3.2.2: Identify and describe sources of experimental error; 3.3.2: predict how error can logically affect an experiment’s results)*

# **Lab Report for the \_\_\_\_\_\_\_\_\_\_\_ Lab**

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**Hypothesis:**

**Materials:**

**Procedure:**

**Results (Data):**

**Conclusions:**