# **Lab Report Guidelines**

***Title:***

\* a brief, concise, yet descriptive title

***Statement of the Problem (Engage):***

\* What question(s) are you trying to answer?

\* Should be in a **question format**.

***Research/Background (Engage/Plan):***

\* Include any preliminary observations or background information about the subject.

\* What do you already know about the subject?

\* What additional information can you find out?

\* Source your information when researching.

***Hypothesis (Plan):***

\* Write a possible solution for the problem in a complete sentence.

\* Make sure the statement is testable.

\* Write an ***if-then*** statement to illustrate what criteria will support your hypothesis.

***Variables (Plan):***

\*Identify the 3 main variables in your experiment: Independent, Dependent, and Control.

***Materials (Act):***

\* Make a list of **ALL** items used in the lab.

***Procedure (Act):***

\* 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.

\* Don’t leave out ANY steps. This includes if you made modifications to your experiment.

***Results/Data (Act/Reflect):***

\* Include any **data tables**, **observations**, **additional notes**, or **graphs** you make during the lab. (Remember DRY MIX for your graph.)

\* Include drawings, diagrams, measurements, or any other items that shows what you did.

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

***Conclusions (Reflect):***

\* Accept or reject your hypothesis.

\* EXPLAIN why you accepted or rejected your hypothesis using data from the lab.

\* Include a summary of the data - averages, highest, lowest..etc to help the reader understand your results. Try not to copy your data here, you should summarize and reference KEY information.

\* 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)