**Lab Report Template**

**Title: *(each of these will be a header in your lab report)***

* A brief, but descriptive title (*Want a 5?* Create your own title that includes the dependent and independent variable!)

**Background Information and Introduction:**

* What question(s) are you trying to answer?
* Include any detailed background information you can find that relates to your subject.
* What is your hypothesis? Include the dependent and independent variables and reasoning for your prediction (If… then… because format).

**Materials:**

* Make a list of ALL items used in the lab. This list can be bulleted or numbered.

**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.
* Important details or diagrams should be used to help the reader recreate the lab.

**Results and Data Analysis:**

* This section should include any data tables, observations, 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.
* All relevant figures (charts, tables, etc.) should be labeled clearly with a short caption explaining what they are.

**Conclusion (3 paragraphs)**:

* Paragraph 1:
  + In your own words, describe the purpose of the experiment.
  + Discuss any new terms that were relevant to understanding and conducting your lab.
* Paragraph 2:
  + Restate your hypothesis and discuss whether or not the lab experiment supported your hypothesis.
  + Explain the lab setup, your variables, safety precautions, etc.
* Paragraph 3:
  + EXPLAIN why your hypothesis was supported or not supported 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.
  + Using scientific reasoning (and information from your background research), WHY do you think you got the results you did. Explain in full sentences.
  + 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). How did those errors possible affect the data you collected?