Lab Report Checklist

**Purpose**

* A question which you are hoping to answer by completing the experiment.

**Related Theory**

* You have provided background information about things that are RELEVANT to the experiment you are performing; explanations outlining the theoretical principles of the experiment, definitions, equations, etc.

**Hypothesis**

* An educated guess about the outcome of the experiment with an explanation of **WHY** this is your prediction of what will happen (using the information you know about the topic). \*\*(If…Then…statement)\*\*

**Materials**

* You provided the materials and chemicals that YOU USED in the lab.

**Procedure**

* You have indicated where to find the procedure.
* You have noted changes to the procedure if any.

**Data/ Observations**

* Your measurements are correct and include labels (such as centimeters or seconds).
* Diagram (must be in pencil) :All labels must be placed to the right of the diagram
* You have put your measurements or observations into a scientific table, graph, or labeled picture. PLEASE include a table/figure number so that you can refer to them easier within your analysis.
* You have included every detail of what you saw happening (no inferences).

**Analysis**

* You have analyzed your data; attempted to explain WHY things occurred as they did or discussed WHY they did not occur properly and listed possible sources of errors for this. You can even explain how you’d like to change this particular lab to learn something new or adjust it to work better.
* You have explained (in detail) how the experiment and what we are learning about in class are related.
* You have explained how the information learned in this lab can be used in the real world.
* You have used scientific vocabulary
* You are to include any RELEVANT calculations – if you perform the calculations, refer to them in your analysis!

**Conclusion**

* You have responded to the purpose for the lab and your hypothesis with a concise conclusion using support from your data/analysis.
* Conclusions for Mrs. Peden’s should be SHORT, a few sentences max as your analysis should have the bulk of information/discussion of your thoughts about the lab.

***WRITTEN COMMUNICATION***

* You used different types of transition statements (“For example…..” or “In addition…..”, etc.)
* Your report is organized and written so that it flows and makes sense and has subtitles bolded
* You sound like a scientist throughout (you don’t say things like, “This lab was really cool”, avoid “I”)
* You have used your scientific vocabulary correctly.
* You have no errors in grammar or spelling (this means you edited and proofread!).