**Procedure, Graphing, and Conclusion Checklists**

***(NOTES)***

**Procedure:**

* Every step of the experiment is included
* Each step is short
* If someone followed your procedure they would get the same results
* The materials list must be VERY complete.
  + How much of each material will be used in the experiment (25-mL of water or 250-mL of water)
  + The size of all equipment (ex 25-mL beaker or 250-mL beaker)

**Graphing:**

* Title includes independent and dependent variables
* Graph is the correct type (circle, bar, line)
* Graph fills most of graph paper space
* Independent variable is on the X axis
* Dependent variable is on the Y axis
* X-axis is labeled with the correct units
* Y-axis is labeled with the correct units
* Scale on X and Y axes is equally spaced (every line must equal the same increment)
* Data is plotted correctly
* A key is used when graphing more than one set of data on the same graph
* On a graph, the line connects plotted points (only points in data table; do not connect to (0,0) unless included in data table), is a line of best fit or shows a scatter plot
* A ruler is used; the graph is neat and legible

**Conclusion:** *(answer these in complete sentences in your conclusion)*

* What was the question/problem you were investigating? What was the experiment about?
* What was your hypothesis?
* Is your hypothesis supported or unsupported by your data?
* What is the explanation for what happened in the experiment?
* How does this experiment relate to real life?
* What improvements would you make next time?