Life in a Jug Lab Report

**Title:**

Must clearly and accurately reflect the major emphasis of your experiment and prepare readers for the information you present. {Example: The effect of (independent variable) on (dependent variable).}

**Background Information:**

This introductory section contains relevant information pertaining to your investigation. It should be a flowing discussion of pertinent vocabulary words and concepts. You are basically convincing the reader that you are educated on the topic. All information should be cited using MLA standard methods!

**Design:**

* Hypothesis- stated “If…then…because” Remember the “because” is CRITICAL!
* Variables- identify the IV (and levels), DV, and all controlled variables (constants)
* Diagram- draw the set-up or take a picture if necessary
* Procedure- paragraph form, passive voice, and past tense (should be cited if you are borrowing a procedure from somewhere!)

**Data Collection and Processing:**

* Raw Data Table – must include raw data ONLY. Design and clarity is critical. All tables should have titles. Check that all columns are headed and units given. A complete table should fit on one page – do not “leak over” to another page.
  + You should have your data table as well as the data of 2 other lab groups!
* Data Processing –
  + - Presentation includes BOTH *data tables* and *graphs*
      * *data tables* of processed data: must include a title specific to its contents (NOT “Data Table 1”), columns and rows should have headings, units should be listed
      * *graphs* of processed data: give careful consideration to the types of graphs you use, must include a title specific to the data presented, axes should be labeled (with units), axes should be properly scaled, best fit line/ trend line should be drawn, legend

**Conclusion and Evaluation**:

* Conclusion: Discuss the results of your experiment. Discuss whether your data support or refute your hypothesis. Specifically refer to your graphs!
* Limitations of experimental design: how well did your experimental design help you answer your experimental question? What worked well and why? What didn’t work well and why? You could also discuss outliers here.
* Suggestions for improvements: What would you do differently next time?

**References:**

* All book, journals, websites, etc. used in the report must be listed here.