Name: **Experiments and Critical Thinking**

You will be blogging about the Don't Drown Lincoln lab. First you will do a rough draft.

You will be graded on two skills and will have two separate grades:

A. Design and conduct an experiment.	B. Think critically and logically to connect evidence and explanations.

Look at the rubric in your notebook to see how you will be evaluated.

For A complete and answer the following in a paragraph:

- What made our first class experiment a bad example of an experiment?
- What made our second class experiment a better one?
- What is an IV? What was our IV in the second experiment? Why do you think we only chose one independent variable?
- What is a DV? What was our DV in the second experiment?
- What is so important about having a lot of controlled variables (constants) in an experiment? Explain with examples from the first experiment.
- What do you think is the hardest part of conducting a good controlled experiment?

For B complete and answer the following in a paragraph:

- What is a hypothesis? What was your hypothesis in the second experiment?
- What was the **claim** that you made about the hypothesis (*once your data was collected and you looked at patterns in the data*)?
- What was your **evidence** that supported your claim? (*This should be the who, what, when, where descriptions (qualitative data) and number data (quantitative data) that you use to "prove" your claim – ex. We had x number of drops on average, etc. and I saw that the bubble was bigger with x as our variable*) Give at least the mean of both variables and a description of what you observed and then explain how that shows the hypothesis to be true or not.

Write notes on the back of this paper first, then write your work on a piece of paper or GoogleDoc. Use your lab in your notebook to help!