

Scientific Literacy Student Directions

In order to graduate from Douglas High School each student must complete a scientific write-up of a lab/experiment completed in one of your science classes. Once you complete this requirement, you will not have to pass it again. Use the following instructions to help you understand exactly what is needed in order to pass this requirement.

To complete your Scientific Literacy Competency you must:

- **Perform the lab**
- **Complete the lab packet answering all questions**
- **Use proper capitalization and punctuation**
- **On a separate piece of paper, complete each of the following four requirements. You can either type or hand write each requirement. Make sure each of the four sections are complete according to the instructions.**

☐ *Purpose of investigation*

Why did you do this lab? You need to write the purpose in your own words. It may be written as a question or problem statement.

☐ *Hypothesis*

What do you think will happen in this lab and why? Your hypothesis must be testable and state a prediction of outcome.

☐ *Results of investigation*

Summarize your findings using the data. Be sure to average your results if you did multiple trials. A data table must be attached with proper labeling and if applicable, all graphs must include proper labeling.

☐ *Data Analysis*

This should be a well written paragraph analyzing the data using scientific terms. Why and how is this experiment relevant to the concepts being taught? Explain how the data does or does not support the hypothesis. You should mention errors or improvements to the lab that that would increase confidence in the data collected.