

Reviewer Worksheet: Lab Report Data Analysis Section

This assignment focuses on writing the data analysis section to a lab report. This is the section where students describe essentially what their observed data means. An effective data analysis section for a lab report should clearly communicate the meaning of the data to the reader (assumed to be a peer with the same reading ability, but perhaps little experience with this particular experiment). The data analysis portion of a lab report is typically one of the longer sections, possibly being several pages long.

Please review the student's data analysis section for the following features and see if it contains them:

- ☐ When doing some calculations or statistics, are the equations used shown and referenced?
- ☐ For any calculation that is not "standard statistics" or rudimentary mathematics, is a sample calculation shown (especially if the calculations are repetitive).
- ☐ Does all the experimental data contain proper uncertainties associated with it in the text?
- ☐ Do students compare their experimental data with the expected results? Specifically they should compare the difference between their experimental results and theoretical expectations to the uncertainty in their experimental results and draw the appropriate conclusions.
- ☐ Do all tables and figures used in this section of the lab contain descriptive captions and are they referenced in the text?
- ☐ Has the writer checked the spelling, grammar and punctuation?
- ☐ **Most Importantly:** Can you follow the logic of the data analysis presented by the student? After reading this section, do you understand the meaning of the student's experimental results.

Reviewer Name	Comments/Suggestions for achieving the goals listed above