

Data may include:

- Diagrams
- Images: pictures
- Specimens (preserved)
- Data readouts (printout strips)

Data Analysis / Discussion

The data analysis is where you discuss your results. It is where you sort of “brainstorm” on paper. You look at the data you collected and try to determine what it is telling you about the problem you were investigating. You need to look at and discuss all the possibilities then determine which one seems the most logical based on your previous knowledge, observations and the data you collected.

In this section you also need to identify and discuss any problems you had, how you handled the problems and any changes in the procedure you may have made – purposely or accidental. If this is applicable, you will need to discuss the effect of these issue on your experimental results. ***The Data analysis section is not a repeat of your data table in paragraph form.***

The data analysis section may include:

- Calculations
- Graphs
- Other representations of your data

Conclusion:

Your conclusion paragraph is one of the most important parts of your lab report. The conclusion paragraph contains:

- A brief description of the purpose of your experiment
- A reporting of your major findings
- A statement about the acceptance of your hypothesis; was it supported or rejected according to your data
- A statement on the validity of your experiment – are you confidence in your results
- A reporting of the experimental error is applicable
- A recommendation for further study

Another way to look at it . . .

Your conclusion paragraph should answer these questions:

- What was the purpose of your experiment?
- What were your major findings?
- Was your hypothesis supported by the data?
- What were your errors and how could this experiment be improved?
- What could be studied to learn more from this experiment? What equipment could be used to continue this investigation?

NEVER use the word PROVE in your conclusion. If your hypothesis was correct then your data supports your hypothesis it DOES NOT PROVE your hypothesis.