

MLIS Science Fair Project

Results, Discussion, and Conclusion

For this section, each group is expected to complete this based on your experimental results. You should collaborate with each other to complete your results, graphs, interpretation, analysis and conclusion of your experiments. After you get feedback on your analysis, collaborate with your group to synthesize your data based on your group's interpretations and feedback. You should include your final synthesis on your poster. Your analysis of experimental data is a minimum **350-word document** that should include the following:

- Results + Graph*
 - Calculate averages of each trial*
 - Line or bar graph*
 - Highlight key information*
- Discussion*
 - Explain why key information is important*
 - Compare your results to other sources (needs in-text references)*
 - Sources of error*
- Conclusion*
 - Was your hypothesis correct?*
 - What recommendations can you make based on what you have learned?*
 - What experiments would you work on next based?*

Results + Graph

The *results* section includes the data you have collected from your experiment. Here, you will want to include a completed 'results table' from your experiments. If your results are numbers-based, you should also calculate the average of the results.

Next, you will make a graph based on the results that you have collected. This will typically be a bar graph or a line graph, but it depends on what kind of independent variable was used.

Lastly, you will want to point out any information that stood out, as it will help you with the *Discussion* section.

Discussion

The *discussion* section is where you talk about the importance of the results that you have gathered and what it means. It is also important here for you to compare your results to information found online, so you will likely need new *references* to back up your comparisons.

Another important thing to discuss here are any *sources of error*. Sources of error are potential mistakes that were made that could have influenced your results. You should talk about what are ways you can prevent this from happening next time.

Conclusion

Finally! The *conclusion* section finishes off your project by answering your question and revisiting your hypothesis: were you correct or incorrect? Can you explain why you might have been right or wrong? Based on what you have learned, what recommendations could you make to other people? Lastly, if you were to follow-up on your current experiment, what would you do next?