

Title

Name

School Name

Grade

Copy and Paste abstract here-- See Abstract Template for help writing.

Copy and paste background research from Research Plan here

Materials & Methods

Write Methods in paragraph form. Use the Experimental Design from your Research Plan for guidance but be sure to describe what you actually did-- not what you planned to do. Be specific so that anyone could repeat your experiment.

Incorporate materials into your methods. Identify the (manufacturer, city, state) of specific materials-- see example below.

- E.g. Cortisol levels were measured in saliva samples using a Cortisol EIA (Salimetrics, State College, PA)

Results

Insert graphs, charts, and other final data here. Each figure should be explained in paragraph form and have a figure legend

Present key results without interpretation

- collect and analyze data (use metric measurements when possible – distance, volume, weight, temperature, etc.)
 - do statistics, if possible
- create tables and graphs (label graph axes and table columns correctly)
- write 1+ paragraph describing each figure (write so that the reader would know the results of your experiment without looking at the figures)
- If you were explaining the results to someone, think about the important trends or relationships you would point out.
- Use transitions and be **specific** when comparing treatments
 - e.g. To determine what effect X had on Y, we (did this). Compared to control, (the treatment) reduced Y **by 45%**.

Discussion / Conclusions

Interpret your results in context to what is already known (previous research)

- the discussion connects your results with the introduction and hypothesis
- possible topics in Discussion (these aren't necessarily separate sections)
 - comparison of actual results with expected results
 - analysis of why you think results supported/did not support your hypothesis
 - analysis of experimental error and offer improvements
 - offer what new questions resulted from the project, and what future studies may be needed to address those
 - conclusions (this is the take-home message)
- A common way to start the Discussion is "My findings suggest..."; "This study demonstrates..."; "These results suggest..."; etc.

Additional Resources:

<http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWsections.html#results>

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3178846/>

Acknowledgements

Acknowledge or thank people or organizations that helped you with your project

References

List your references in alphabetical order using APA-formatting (double space in between references; hanging indent, etc.) <https://owl.english.purdue.edu/owl/resource/560/05/>