# Science Research Project
## Teacher Overview

**What is a Research Project?**
A Research Project is a collection, organization, and analysis of information to increase understanding of a topic. Information is collected from others who are proficient in the topic and content is integrated to provide a comprehensive understanding of the chosen subject matter.

Student projects must include:

- **Research Question:** The question that was researched and why it was chosen.
- **Notes from Research:** How was the information collected? What was the planning process to develop the research?
- **Cite your Sources Documentation:** Sources chosen (title, link) from at least three different mediums (website, book, video, podcast, speaker, etc.) and how you knew the information was reliable.
- **Presentation of Final Research:** Presentation of research in a clear and informative way with conventions of standard English (Projects presented in a digital format at the school level must be converted to a display board if chosen to represent school in the District Science Showcase.)
  - **Summary:** Overview of research topic - similar to back of a book
  - **Introduction:** Hook, research question, and reasoning for picking the question
  - **Results:** What were the results of the research? What did you learn to answer your question?
  - **Figure or Data:** What figures (images, graphics, photographs, etc.) or data (tables or graphs) support your research?
  - **Conclusions:** Summary of the research question and findings

## Sample Research Questions

- How do airplanes fly?
- How do tornadoes happen?
- Why is yeast used to bake bread?
- Why are pickles stored in saltwater?
- How do 12 weeks of cycling, jogging, and swimming impact bone mineral density?
- Why does my snot change color?
- Why do different animals live at different depths of the sea?
- Why do you get shocked, sometimes, when you pull out a plug?

## Student Work Samples

Students work samples can include any of the following:

- Student journal and/or folder of notes and documents
- Annotated articles/books
- Cite Your Sources Documentation (document on Canvas) or sources can be documented in context.
- Progression of student work and documents with revisions
- Research Student Checklist with student notes (document on Canvas)