

Science Research Project Teacher Overview

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| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">What is a Research Project?</p> | <p>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.</p> <p>Student projects must include:</p> <ul style="list-style-type: none"> • 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.) <ul style="list-style-type: none"> ○ 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 |
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample Research Questions</p> | <ul style="list-style-type: none"> • 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? |
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Student Work Samples</p> | <p>Students work samples can include any of the following:</p> <ul style="list-style-type: none"> • 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) |