

Secondary Research Plan Template

Details - Details - Details!!!

Your research plan must be very detailed so that the review committee could follow your instructions and replicate your experiment exactly without explanation. If your project does not contain enough details, it will be returned for revision. All items below are required information.

Student Name: _____

Grade: _____

Earth Science

- ____ Earth and Space
- ____ Environmental

Life Science

- ____ Animal
- ____ Behavioral & Social
- ____ Medicine & Health
- ____ Microbiology
- ____ Plant

Physical Science

- ____ Chemistry
- ____ Energy & Transportation
- ____ Engineering
- ____ Mathematics & Computer
- ____ Physics

Project Title: _____

Rationale: I chose this project because...

Objective: The objective of this science fair project is to...

[state the main goal or purpose of your experiment - what question are your trying to answer].

Hypothesis: If [cause], then [effect], because [rationale]

[make an educated guess about what you think will happen in your experiment].

Materials

Complete list of materials needed for the experiment

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Risk Analysis: The potential risks are...

Preparation:

Explain any preparation steps, such as setting up equipment or preparing samples.

Experimental Set Up:

Explain how you will set up the experiment, including any variables you will control.

Describe how you will ensure a fair test.

Explain the role of each material or equipment in the experiment.

Data Collection:

Explain how you will collect data, measurements, or observations.

Include details about the measurements you'll take and how often.

Describe any tools you'll use for data collection.

Observations:

Describe what you will hope to observe during the experiment.

Explain how you will record any changes or effects.

Analysis:

Explain how you will record any changes or effects.

State if you will use graphs, charts, or calculation.

Bibliography: Sites such as <https://www.easybib.com/> will help you quickly create citations for your resources. You should try to include at least 6 sources of information for your bibliography. Wikipedia is NOT a proper source.

Ethical Considerations: If your project involves human subjects, animals, or potentially harmful substances, address how you will ensure ethical conduct and safety.

Presentation:

Explain how you will present your project, including designing your display board and preparing for your presentation to the judges.
