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: ____________________________**

**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.

______________________________________________________________________________________

______________________________________________________________________________________