**Research Plan**

Name(s):

Title: *[Your Project Title]*

School:

Grade:

Objective: *[Clearly state the goal or purpose of your project. What are you trying to investigate or discover?]*

Hypothesis: *[Formulate a hypothesis based on your initial understanding of the topic. What do you predict will happen?]*

Materials: *[List all the materials and equipment you will need for your experiment. Be specific and include quantities.]*

Procedure: *[Describe the step-by-step process you will follow to conduct your experiment. Make it clear and easy to follow.]*

Variables: *[Identify and define the independent and dependent variables in your experiment.]*

* Independent Variable: *[The factor you are manipulating.]*
* Dependent Variable: *[The factor you are measuring.]*
* Controlled Variables: *[List any variables that you will keep constant to ensure a fair test.]*

Data Collection: *[Explain how you will collect data during the experiment. Include the type of data you will collect (qualitative or quantitative) and the instruments or tools you will use.]*

Data Analysis: *[Describe how you will analyze the data. Include any calculations or statistical methods you plan to use.]*

Expected Results: *[Based on your hypothesis and background research, what do you expect the results to be?]*

Potential Challenges: *[Anticipate any difficulties or challenges you might encounter during the experiment. How will you address them?]*

References: *[List any sources you consulted while developing your project. This can include books, articles, websites, or experts you spoke to.]*

Safety Considerations: *[Identify any safety precautions you need to take during the experiment.]*