**Research Plan Generator**

Student Name(s):

Grade (6-12):

**RATIONALE:**

This is a brief summary of the background that supports your research problem and explain why this research is important. Explain any societal impact of your research.

**RESEARCH QUESTION(S) and/or ENGINEERING GOAL(S):**

What is your question(s) or engineering goal(s) and how is it based on the rationale described above?

**HYPOTHESIS(ES), ENGINEERING GOAL(S) and/or EXPECTED OUTCOMES:**

**PROCEDURES:**

Detail all procedures and experimental design including methods for data collection, and when applicable, the source of the data used. Describe only your project. Do not include work done by mentor or others. However, do detail if you have an adult operate equipment on your behalf for your project and what kind of results you received back from the adult to continue your work/analysis. If you used humans, vertebrates, microorganisms, mold, viruses, other potentially hazardous biological agents, tissues, or bodily fluids please see additional information below the Project Summary section below for additional information required.

**RISK and SAFETY** (***required for all projects***, even if no risk):

Identify any potential risks and safety precautions needed.

If hazardous chemicals, activities & devices, describe your Risk Assessment process, supervision, safety precautions and methods of disposal.

**DATA ANALYSIS:**

Describe the procedures you will use to analyze the data/results.

**BIBLIOGRAPHY:**

List major references (e.g. science journal articles, books, internet sites) from your literature review. Use MLA or APA or Chicago format. For websites, use the exact URL (not just Google, not the main page of the website) *& the date you accessed the information*. If you plan to use vertebrate animals, one of these references must be an animal care reference.

**PROJECT SUMMARY:**

If changes are made during the research, add those changes to your plan here. If no changes are made from the original research plan, no project summary is required. State “no changes were made to the original research plan.” NOTE: Some plan changes may require returning to the IRB or SRC for additional review and approvals. Include any updated approvals with your forms (modified forms signed again) due to changes in your plan and briefly explain in this summary.