**Science Fair Preliminary Proposal Form 2023**

**Name(s):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Grade:**\_\_\_\_\_\_\_\_

**Science Teacher:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Title:** (< 65 characters)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question** / **Problem? Identify the specific problem you will be trying to answer. Who will benefit from this study? What is the social significance?:** :

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 **Gathering Information:** What do I need to know about my topic so I can propose a knowledgeable hypothesis and design a good experiment? (Or engineer a needed item.)

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4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Hypothesis:** “If, Then, Because” statement. (Engineering – what is needed, why, how can you solve the need.)

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 **Experimental group:** Describe using detail – quantity, specific type/age/size of items used, and anything else applicable to items that could influence the results.

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**Independent Variable:** The manipulated variable is what you change to see what will happen. What are the different levels of your manipulated variable? USE METRIC for mass, volume and length measurements.

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**Dependent Variable:** The result you are looking for and measuring in your experiment. Include how you will measure this - USE METRIC for mass, volume and length measurements. How will you measure the outcome (device, method or tool?)

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**Control group:** The control is the experiment you will run under untreated conditions this will be your standard of comparison for your treated samples. What will be your control?

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 **Materials Needed for Experiment**: 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Constants or Controlled variables:** (Kept the same in both experimental and control groups.)

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**Sources:** (5 required) People can be sources – if so, please indicate why they are experts. For online sources include both the page name and URL. List each source and summarize what you learned. Your logbooks should contain the details.

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**Procedures:** (Include all steps of the experiment or engineering project. Be very detailed. Specify quantity, time, etc.) (If you need more space please attach an additional piece of paper)

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 6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**STUDENT ETHICS:**

**I will show scientific integrity in my work. I will develop my own project and complete the experiment with minimal help from others. I will use my actual data in my results. I will be honest and unbiased with my observations.**

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PARENTAL ETHICS:**

**I will support my child’s efforts but will not directly carry out this Science Fair Project.**

Parent’s Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Warning: No project using dangerous materials or presenting a dangerous situation will be allowed in this Science Fair. Be advised studies using vertebrate animals or humans require prior approval, extra forms, and approval by medical or veterinary professionals. Be sure you read requirements online before submitting proposal.**

Science Fair Coordinator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ Approved □ Needs further work to be approved. □ Not Approved – choose another topic.

Additional Notes: