

2022-2023 Science Fair Proposal Sheet

DO NOT REMOVE OR ALTER ANY TEXT ONCE PLACED IN THE PROPOSAL. PUT NEW ADDITIONS BELOW EXISTING TEXT ALONG WITH THE DATE TO SHOW CHANGES YOU ARE MAKING. THIS SHOULD LOOK LIKE THREADS IN A CONVERSATION OR SERIES OF TEXTS. I will post all of my comments and questions in red so you can easily find them. You are to answer or modify BELOW my questions and comments in black so I can easily find your responses. At the top of each page, I will list the item number that is holding up approval. Your project is approved once you reach 75 points. Continue to resubmit for additional points until you reach 75.

4/29: Proposal Due

5/4: Revision 1 Deadline

5/9: Revision 2 Deadline

5/13 Last day any and all revisions will be accepted--no exceptions. If your proposal is not approved on this round, it will have to wait until August for resubmission.

Name:

Grade next year:

Highlight one: Do you plan to participate in external competition: Yes No

Remember: You may withdraw your name from competition later if you check yes, but you cannot add your name to the competition list afterwards if you checked no.

1. (5 pts) Project Title:

2. (5 pts) Problem Statement (experiment) or Need (engineering project)--highlight problem statement OR need and then write the statement or need:

3. (5 pts) Hypothesis (experiment) or Design statement (engineering project)--highlight hypothesis OR design statement and then write the hypothesis or statement:

4. (5 pts) What will you measure? Keep in mind this is the responding variable you will be graphing.

5. (5 pts) When thinking about what you will measure, what will be the units of measure? All measurements should be in SI format.

6. (5 pts) Bulleted list of the materials you will need for your project (the ingredients in a recipe):

7. (5 pts) Your detailed procedure in the form of a numbered list (the directions in your recipe):

8. (5 pts) Manipulated variable (the thing that makes one sample group different from the others):

9. (5 pts) Responding variable (the response from the experimental group you will measure):

10. (5 pts) Controlled variables (minimum of 3 things you will keep the same for all samples in your experiment):

11. (5 pts) Either how many times you will run your experiment or what will be the sample size?

12-15. When you write your research report, you will gather information about the science that explains what happened in your project. State the branch of science and 3 subtopics you will research. (Example: I. Botany (study of plants), a. Photosynthesis, b. Seed germination, c. Pollination.)

(5 pts) I.

(5 pts) a.

(5 pts) b.

(5 pts) c.

The following fillable forms need to be completed **only by those who are competing** in an external science fair. I will highlight any forms you will need to fill out. **If I have not highlighted any, you don't need to fill any out.** If you do need to complete forms for competition, follow the link below to complete and print only the forms I highlight!

Note: You can type directly into these forms before printing from the following link:

[Competition Forms](#)

- Adult Sponsor (1)
- Student Checklist (1A)
- Approval Form (1B)
- Regulated Research Institution/Industrial Setting Form (1C)
- Qualified Scientist (2)
- Risk Assessment (3)
- Human Participant Form (4)--Box 1 requires school nurse, Box 2 is any science or math teacher in our school except me, and Box 3 is the Principal
- Human Informed Consent--Each human participant must complete this form so fill it out before making copies so you don't have to fill it out repeatedly for each and every individual.
- Potentially Hazardous Biological Agents Risk (6A)
- Human and Vertebrate Animal Tissue (6B)
- Continuation Project (7)