

Science Fair Project Information

Student Name _____ Science Teacher _____

What are the gains of completing a science fair project?

- Involves much more than just science
- Development of research skills, writing skills, math skills, computer skills, presentation skills
- Use of the scientific method-a process for solving a problem
- Inquiry, curiosity, creativity, organization
- Long duration of an assignment-Most Powerful Active Learning Experience
- Our society relies on science and technology-These skills will be needed in our future workforce.

Steps of the Scientific Method

1. Find a problem/Ask a question
2. Create a hypothesis (educated guess)
3. Complete an experiment to test your hypothesis
4. Collect data
5. Analyze data and determine results
6. Draw conclusions based on your results
7. Share results from your findings

Help Sessions

Thursday- October 24

Thursday- November 7

Overview of Assignment Due Dates 2019-2020

Friday, September 6	Topic Approved
Friday, September 20	Log Book Check 1
Friday, October 4	Research Plan & Bibliography (see directions)
Friday, October 11	Background Research Report/Log Book Check
Friday, November 1	Research Report due (follow directions outlined in handout)
Friday, November 8	Abstract due
Wednesday, November 13	Science projects due
Tuesday, November 19	Science Fair Day

Below you will find instructions for completing each step of the science fair project.



Step 1 ___ Due Friday, September 6, 2019

Topic
Chosen _____

The following website list 200 project choices that are excellent for completing a science fair project:

<https://www.winter.k12.wi.us/community/sciencefair/sciencefairideas.pdf>

- Select a topic that interests you, that is appropriate for your grade level, and meets the approval of you parents and science teacher.
- The topic must be testable through an experiment or survey.
- Topic must be approved by teacher before beginning your project.
- Do not do a project that has been done over and over.
- Be original.
- Choose a topic that can be finished in the amount of time given and that you can complete with materials available to you.



Step 2 ___ Due Friday, September 20, 2019

- The first log book check will be to make sure all students have a log book. Below is an image of a correct log book.
- You log book is to contain accurate and detailed notes of everything you do for your research project.
- NO names are allowed in the log book.
- Only blue and black ink are allowed. No pencil.
- Pages cannot be removed from the log book.

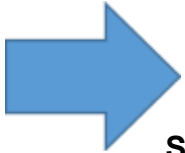


Step 3 ___ Due Friday, October 4, 2019

- The next step is the research plan and bibliography.
- This information is to be included in the log book. Below is an outline that is to be completed in the log book.
- Your bibliography will be page 10 in your log book.

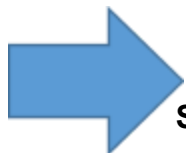
- **The following information should be on a separate page in the log book in blue or black ink and dated.**

1. Question/ you are looking to answer through the experiment.
2. Hypothesis-your guess as to the answer to the question.
3. Variables-Independent-what you are changing in your project.
Dependent-what happens because of what your changed in your experiment
4. Materials
5. Data collected from your experiment
6. The results of your experiment
7. Your conclusion-was your hypothesis correct, what do you think about your experiment
8. Background Research-Explain why you chose this question or problem. What websites, books are resources did you use.
9. Acknowledgements-People who helped you with your project.
10. **Bibliography**/References-list all book and website you used.



Step 4___ Due Friday, October 11, 2019

- **The next step is the Background Research Report. This a typed summary of your research plan and bibliography from your log book.**
- **This will become the introduction to your research paper.**
- **You will return to this document to begin your research paper using this summary as an introduction.**



Step 5___Due Friday, November 1, 2019

- **This next step is Log Book Check 2.**
- **This log book check is to look for evidence of your research plan, bibliography, and collected data from experiments.**
- **No pencil.**
- **No torn out pages**
- **Blue or black ink only**





Step 6 _____ Due Friday, November 8, 2019

- The next step is the Research Report.
- The Research Report is to be kept in a three ring binder and must be typed.
- The Report should include a title page and include a table of contents.
- Use 1 inch margins and 12 pt font (Times New Roman)
- Below is how the paper should be divided based on content. Each new section starts on a new page. This information is in your log book as part of your research plan.
 - Title Page
 - Table of Contents
 - Introduction to Topic
 - Hypothesis
 - Materials, Methods, Experiment
 - Results
 - Discussion (Discuss findings from your experiment)
 - Conclusion
 - Acknowledgements (Anyone who helped you with your project)
 - Bibliography-found in log book



Step 7 _____ Due Wednesday, November 13, 2019

The next step is the Abstract. It must be typed.

- This is an abbreviated version of your final science project research report. A maximum of 250 words is allowed.
- The abstract should contain the following. Each part below should be no more than two sentences each.
 - Introduction
 - Problem statement
 - Procedures
 - Results
 - Conclusions

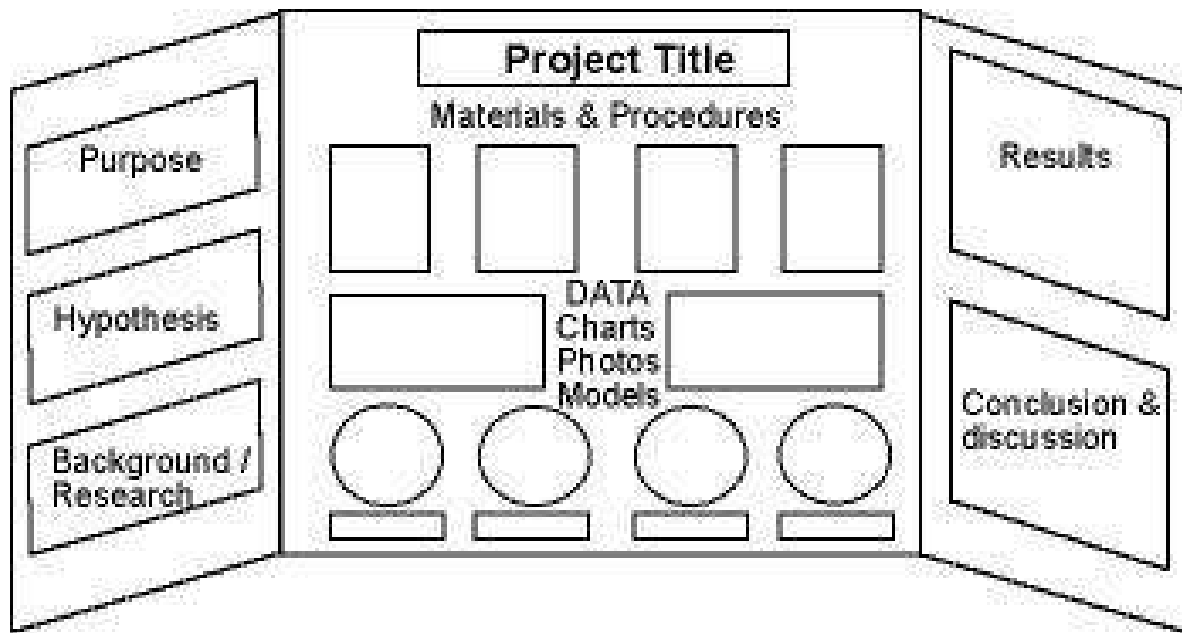


Step 8 _____ Due Wednesday, November 20, 2019

- The next step is your Tri-board.
- Your final presentation must be on a Tri-board. You cannot use a poster board.
- Your display should attract and inform.
- No images with faces are allowed on your board.
- Your abstract should not be on the tri-board but at the beginning of your research report in your 3 ring binder.

- Below are the items that should be on your tri-board.
 - Title/Question
 - Background Information
 - Purpose
 - Hypothesis
 - Materials/Methods
 - Results
 - Conclusions
 - Graphs/Tables

- Below is the correct setup for your science project display.



Step 9-Your project should now be complete. The following items are required for all science fair projects.

- Log Book
- Research Report-in a 3 ring binder
- Abstract-Typed and placed in your 3 ring binder at the beginning of your research report.
- Display Board