Science Fair
2022-2023 Information

Science Fair is here once again. It is important to remember that science fair experiments must be something you can test.

Projects must be done as individuals.
NO GROUPS!!

What you need:

- PowerPoint (use the template provided)
- Log Book (use the template provided)
- Computer for research and to type your paper. (This may be handwritten at home and typed at school.)
- Materials specific to YOUR experiment.

What to do:

1. **Title.** Pick a project that is interesting to you. Look at www.sciencebuddies.org for help. This site has many science project ideas.

2. **Research**. Conduct research using the internet, encyclopedia, books, magazines, etc. When conducting research, write notes in your own words. Use your Science Fair log book to write your research notes. **Make sure you get the information you need about the book, website, etc. for your bibliography.** You will need at least **2** resources.

Write your research **in your own words.** Do not copy from the book or website. Your research should be a minimum of three paragraphs.

- Your **introduction** paragraph must include your topic, how you will test your topic, and your hypothesis.
- The **body** paragraph will give background information on the topic. For example, if you were doing an experiment on plants growing in sunlight vs. darkness, you would include information on photosynthesis.
- Your **conclusion** paragraph will include your results, state rather or not your hypothesis was correct, and include what you would do differently if you were to do this experiment again. Stating that you would not conduct this experiment again is unacceptable.

You must cite your sources using the APA format.

Websites to use to assist with citations are

http://www.bibme.org/apa and http://www.citationmachine.net/apa/cite-a-website

3. **Hypothesis, Materials, Procedures, and Experiment.**

Use the knowledge you have from your research to compose your hypothesis. Collect your materials, write your procedures, and begin your experiment. Make sure you have a logbook to document all your data.

Document **EVERYTHING** you do with your project.

Journal Example

Day one: Monday, November 4, 2013 **4:30 pm** **Today I decided on my science fair topic. My topic is "Do plants grow better in natural light (sunlight) or fluorescent light (room lights)?**	**Day two: Tuesday, November 5, 2013** **6:00 pm** **Today I collected the materials I am going to need to complete my project.** **Materials: 4 pots,4 plant seeds, potting soil**

4. **Data, Results, and Conclusion**

Make sure you collect and record the data from your experiment in your log book. This can be in the form of tables, graphs, pictures, etc. The results portion of your science fair experiment will explain your data. Look at the data and tell someone what it means. That's your results.

The conclusion will summarize your entire experiment. Restate your question/problem, explain your hypothesis right or wrong, share things that went well and not so well, and lastly, if you were to conduct this experiment again what you would do differently next time.

5. **Communicate.** You will communicate your results via PowerPoint. Make sure your PowerPoint looks professional. Do not include any images or graphics that do not relate to the project.

Excellent websites to use for Science Fair

www.sciencebuddies.org **www.school.discoveryeducation.com/sciencefaircentral**