

WOLFORD Science Fair

Student handbooks for science fairs are available for viewing at www.wolfordsciencefair.weebly.com. This is a wonderful tool to use in ensuring that the projects can be the best that they can be. In order to help the students stay on track with their projects, we are sending home steps for the children to complete. There will be six steps. These steps should help your child complete the project in a timely manner. Please sign your child's completed step after reviewing it with them and turn it in to their teacher. Be sure that you keep a copy. The first step is due on September 21st! We look forward to some terrific projects! The Wolford Science Fair Weebly also has some great ideas for science fair projects if your student wants to participate but is stumped for an idea.

Step 1: Title and Problem---due September 21st

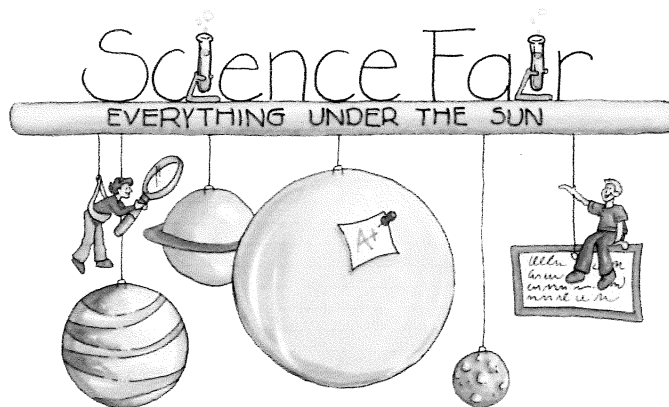
Step 2: Hypothesis---due September 28th

Step 3: Research and Materials---due October 12th

Step 4: Procedure---due November 18th

Step 5: Results and Conclusion---due November 30th

Step 6: Final Project Presentation and Science Fair---December 6th and 7th at Wolford



**All completed projects are due on
December 6th, 2016**

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Step One: Title and Problem

Due on September 21, 2016

Dear Parents,

Step one (title) and (problem) of the student's science fair project are due on **September 21st**. Each project must have a title and a problem. The problem must be constructed in the form of a question. The problem helps the students determine what they are trying to figure out from the project. All projects must be an experiment rather than an observation. The purpose of this step is to attract another person's interest in the project that will further enhance their exploration in the topic of study. The following questions are good examples of a scientific problem:

1. Which light bulb is the most efficient?
2. How long does it take the heart to return to normal after exercise?
3. What is the most electricity you can make using a magnet and a coil?
4. How rapidly does a plant make starch?

Problem:

Title:

Parent Signature

Student Signature

Homeroom Teacher: _____ Grade _____

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Step Two: Hypothesis

Due on September 28, 2016

Dear Parents,

Step two of the student's science fair project is due on **September 28th**. Each project must have a hypothesis statement. A hypothesis is a statement that gives the best educated guess explaining what the investigator thinks the experiment will prove. The following are good examples of a hypothesis statement that supports the scientific method.

Examples:

1. Students with the largest lung capacities can do the most exercise.
2. A simple machine can teach children basic science facts.
3. The same amount of white popcorn kernels pop more than yellow popcorn kernels over a gas burning stove.

If possible, meet with your child and assist if needed in the construction of their hypothesis statement.

Hypothesis:

Parent Signature

Student Signature

Homeroom Teacher: _____ Grade _____

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Step Three: Research and Materials

Due on October 12, 2016

Dear Parents,

The Science Fair is well on its way. We have studied the topic, problem and hypothesis of the scientific method. Students should be at least to this point. Looking at the timeline of **October 12th**, students should now be doing research based on their topic. For example, a student may be taking a look at the effects weight plays in the rate of speed an object falls to the ground. The student will do research on gravity and its role on earth. Upon completion of this research, students will be responsible for writing about the information found on the topic. This informative paper will be part of the student's notes that are turned in with the completed project. Students may use encyclopedias, the Internet, or books on the topic. In each case, the student will need to cite the resources for the information they gathered.

Along with the research, the student will provide a list of materials and supplies needed to do the experiment. For example, if I were testing the rate of speed a flat and crumpled piece of paper would fall to the floor when released at the same height, I would list two pieces of 8 1/2 x 11 paper. Remember to list all your materials for your project.

Materials:

Parent Signature

Student Signature

Homeroom Teacher: _____ Grade _____

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Step Five: Results and Conclusion

Due on November 30, 2016

Dear Parents,

This last step needs to be completed by November 30th. This step is the results and conclusion. For the results part, the student needs to tell what happened during the experiment. The conclusion part is where the student tells why the experiment turned out the way it did. It is very important that these parts are turned in on time.

Again, thanks for all of your support with this project. By providing this timeline for completion of the project, together we have modeled time management and the importance of meeting a deadline for each of the participating students.

Results:

Conclusion:

Parent Signature

Student Signature

Homeroom Teacher: _____ Grade _____

Step Six: Science Fair

Due on December 6, 2016

Dear Parents,

All science fair projects need to be brought to the Wolford cafeteria on Tuesday, December 6th. We will have parent volunteers to help get the projects checked in and arranged. All projects should have the student name on a separate piece of paper in an envelope attached to the back of the display board.

For your ease, you can fill out the information below, cut it out, and attach it to the back of the Science Fair Project.

Wolford Elementary Science Fair 2016/2017

Participant Registration

The following information must be completed and turned in with your Science Fair Project. This form should be placed in an envelope attached to the back of the display board.

Student Name: _____ Grade: _____

Homeroom Teacher: _____

Project Title: _____

SCIENCE FAIR **INTERNET RESOURCES**

Dear Parents,

Below are several Internet resources containing Science Fair resources/ideas. I hope this helps! Thanks!

The Internet Public Library

<http://www.ipl.org/div/projectguide/>

Science Fair Project Ideas

<http://www.all-science-fair-projects.com/>

Science Buddies

http://www.sciencebuddies.org/science-fair-projects/student_resources.shtml

Super Science Fair Projects

<http://www.super-science-fair-projects.com/>

Successful Science Fair Projects

<http://faculty.washington.edu/chudler/fair.html>