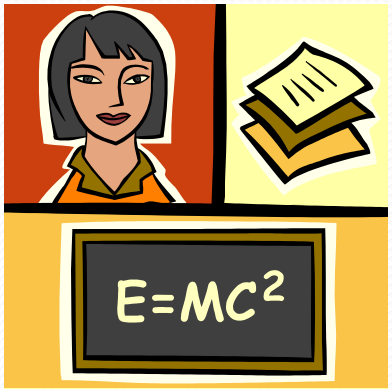
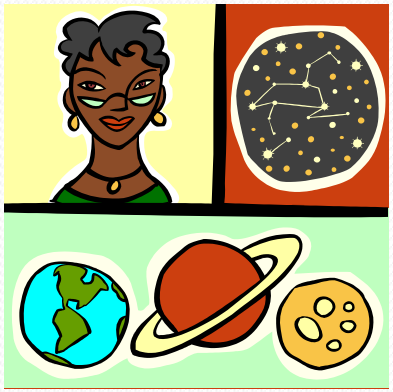
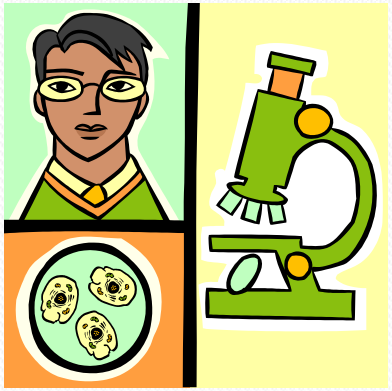
LGMS Science Fair







What is the Point of this?

There are five important points to why the science fair is important.

Five Points

1. To engage the interest of student to work with the scientific method.
2. To understand science in a new way
3. To possibly become a scientist or an engineer.
4. To help maintain the scientific lead and prosperity of our nation
5. Hopefully, transfer that prosperity to the whole world.

A Typical Science Fair

- Too little originality and planning
- Too many projects hastily constructed a few nights before the fair opened.
- Projects that bear the unmistakable signature of Mom or Dad
- Copy of projects from the Internet
- Low level of participation by a single class or an entire school.

The LGMS Science Fair

- Greater student participation
- Greater creativity, originality, and overall quality
- Greater use of investigative skills and problem-solving activities
- A more positive attitude toward science.
- Participants will develop a deeper understanding of scientific process

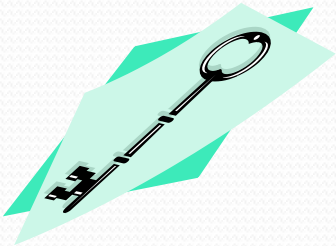
What Is A Science Fair Project?

- Through the development of a project you will gain firsthand appreciation of the work of scientist and the values of their discoveries.
- Your project allows you to experiment, make decisions, form and reform hypotheses, test and examine ideas, seek solutions, and most important, learn more about yourself and the world.

Project Has 8 Main Parts

1. Research of a topic
2. Develop a hypothesis
3. Plan and carry out an experiment
4. Maintaining a log book (hard composition)
5. Taking pictures of experiment
6. Graphing results
7. Create a Display Board
8. Complete Written Report

Keys to a Successful Project

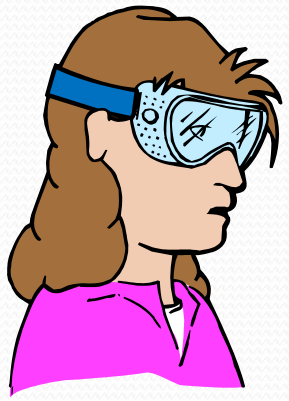


- Does the project represent your own work?
- Is the project the result of careful planning?
- Does the project demonstrate the student's creativity and resourcefulness?
- Does the project indicate a thorough understanding of the chosen topic?
- Does the project include the log book, display and final report?

- Does the display board include visual aids such as pictures and graphs?
- Are all lettering on the display neat and accurate?
- Does the project meet all safety requirements?
- Is all information accurate?
- Does the display present a complete story?

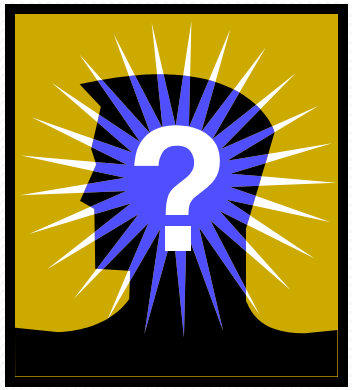
Help Selecting the Topic

- Interests (select a topic you enjoy)
- Difficulty Level (not too easy yet not too hard)
- Time (can you get it done in 12 weeks)
- Materials (what special materials do you need)
- Guidance (how much help will you need)
- Safety (will you be able to follow all safety rules)



What If?

- It is important to remember that there are no right or wrong answers to “what if” questions. They help you look at science with a creative eye, to think about possibilities rather than absolutes.
- These types of questions can help you develop a topic you are interested in .



Experiments

- The type of project you must present must have an experimental design. This requires you to pose a problem, design and experiment to investigate that problem, record, and report your results, and make conclusions based upon your results.

Display Board

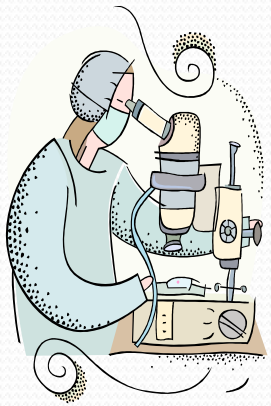
- A display board will be provided to you unless we have more than 50 projects.
- The board will include a display of the steps you took and the data
- Remember you must have visuals including pictures. You are not allowed to have any equipment in front of you board. Only your log book, and notebook with research paper.
- We will discuss how exactly to place items on the display board later.

Research

- During your research you will investigate a chosen area of science by consulting primary sources. You need to consult reading materials from libraries, government agencies and the Internet.
- You can interview experts like scientists, healthcare workers, or county agents etc.
- You are exploring a scientific area in depth and detail and reporting your finding.

Conducting Research

- Before you begin the project you need to research a wide variety sources to get background information. This will help you ensure a through understanding of your topic. Make sure you use creditable websites.
- The school library is a place to begin but you should explore the public library, a nearby college or university, local laboratory or city or county agencies.



Investigate

Materials to use

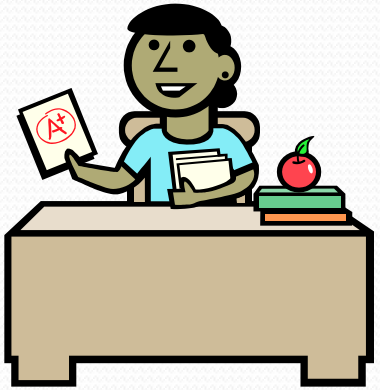
- Encyclopedias
- Dictionaries
- Textbooks
- Graphs
- Magazine and Professional Journals
- Pamphlets
- Records
- Newspaper files

Places to go

- Scientific Societies
- Pumping Station
- Chamber of Commerce
- Zoo
- Botanical Garden
- Food Processing Plant
- Computer Databases
- Wild Life Preserves
- TV /Radio Station

People to See

- Science Teachers
- Professors
- Electricians
- College Students
- Veterinarians
- Computer Operators
- Musicians
- Environmentalist
- Doctors/Nurses
- Biologist



Science Fair Dates

LGMS Fair Due

- December 8th, 2016

Henry County Fair

- January 26th , 2016
- Heritage Park