

LAKE WILDERNESS ELEMENTARY SCHOOL

PTSA Science Fair

May 17th, 2018

(Fair will be open during Celebration of Learning)

Location: Gym

Project Setup: 5:30-6:00

Fair: 6:00-8:00 p.m.



Calling all young scientists! It's time for the LAKE WILDERNESS ELEMENTARY SCHOOL SCIENCE FAIR! All students are encouraged to participate by working on a science project at home, and displaying it proudly at the fair for the world to see.

Register to participate. All young scientists wishing to display a project at the fair must register in advance by completing the science fair **ENTRY FORM** and submitting it to the office.

Final registration deadline is April 27th - NO EXCEPTIONS!

Choose your topic. Get ideas from your teacher, parents, friends, science books, newspaper articles, television, Internet, etc. Collect and put together your ideas and materials you will need.

Choose your type of project. Students may choose one of the following project types. Older students (4th and 5th grades) are encouraged to do an "Experiment" project.

- **Demonstration**-Showing a scientific principle in action
 - Examples --> How does a magnet work? What is an electric circuit? Can air pressure crush a can?
- **Model**-Making a smaller, less complicated version to show a scientific principle
 - examples --> Making a radio, computer, telescope, periscope, volcano
- **Collection**-Gathering and classifying objects to show a scientific principle
 - Examples --> rock collection, insect collection, leaf collection
- **Survey**-Collecting and interpreting data (Surveys differ from experiments because variables are not manipulated and no scientific principle is illustrated)
 - Examples --> Which fast food restaurant uses the most paper? Do girls or boys have longer "pinky" fingers? Which weatherman has more accurate forecasts?
- **Experiment**-Evidence of the **scientific method** is present on the display board
 - Variables are manipulated and controlled
 - Data is collected, recorded, and interpreted
 - Experiments are repeatable. Similar results are collected and patterns should emerge from a large sample size or multiple trials.

What is the Scientific Method?

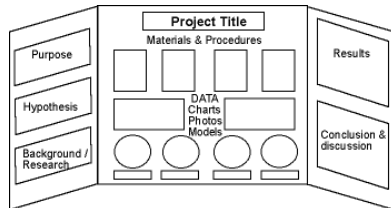
Scientific Method refers to the process that scientists go through when solving a problem.

It involves the following steps:

1. **State the Problem:** Write the problem clearly, perhaps in the form of a question.
2. **Present a Hypothesis:** Describe your educated guess of the possible solution (your prediction of the outcome of your experiment) and justify your reasoning.
3. **Present a Procedure:** Describe how you will go about solving the problem. Include a list of all the materials needed. Do the experiment.
4. **Present the Results:** Tell what happened in words. Show what you have found out using tools like charts, tables, graphs, diagrams and pictures.
5. **State your conclusions:** Write a paragraph that tells whether the experiment solved your problem. Did it prove or disprove your hypothesis? If your hypothesis was incorrect, what might be some of the reasons?

Science Fair Guidelines

- The project should be driven by the student. Parents should use their best judgment in deciding when to get involved, such as when there is a potential safety issue. For young students, parents may provide some guidance, but it is important that the student be able to call the project their own.
- Projects can be individual or team project.
- No animals or sharp items (for example, syringes, needles, pipettes, and knives) can be on display.
- Inform the fair coordinator in advance if your project requires something unusual (electrical outlet, extension cord, etc.).
- All projects are expected to consist of a display board and an oral presentation to the judge.
 - Example of a display board.



Awards. Ribbons will be awarded to all science fair participants. Students that conduct an experiment will be awarded a blue, red, or white ribbon. Ribbons will be determined solely by the judges. A blue ribbon is for 1st place. It is somewhat equivalent to an "A" on our school grading scale. A red ribbon is for 2nd place. It is roughly equivalent to a "B" on our school grading scale. A white ribbon is for 3rd place. It is equivalent to a "C" or lower on our school grading scale.

Contact: science@lwptsa.org for questions or if you would like to volunteer.

**LWES PTSA SCIENCE FAIR
ENTRY FORM**
(Entry forms are due to the office by April 27th)
Fill out and return to the Office

Please write legibly. This name will go on your certificate.

Project Title/Type: _____

Student Name: _____
First Name Last Name

Parent Name: _____
First Name Last Name Phone/email

Student Information: _____
Grade Teacher