
Arrowhead Elementary PTA Science Fair

Student Projects

Double-Egg Drop Challenge

Hands-On Exhibits



Tuesday, March 16th, 2010
6:30 pm to 8:30 pm



Science Fair Projects: The most common statement we hear is “I don’t know what to do for my science fair project.” A science project is easier than you think and there are many resources available to help you get started. Read on for helpful tips and ideas.

First let’s start with Project Types. You could...

Display a **COLLECTION**: Shells, leaves, rocks and bird’s eggs are all good examples of types of collections. Research and classify your collection and label all of the parts.

Build a **MODEL** or an **APPARATUS**: Building a model or an apparatus will teach you a lot about how something works. Create a model of the solar system to learn each planet’s position in relation to the sun or make your own telescope to learn about magnification.

Do a **DEMONSTRATION**: Demonstrations can help explain a scientific concept. Learn which materials are attracted to magnets and create a display to show your results.

Do an **EXPERIMENT**: Use the scientific method to answer a question you have about a scientific concept. Study the effect of fertilizers on plants by using organic and synthetic fertilizers and no fertilizer at all.

Do a **RESEARCH** project: Many questions can be answered through research. Research an interesting animal or a topic of scientific interest like black holes.

Now that you know what types of projects you can do, where can you find ideas for science fair projects? Start with the internet. There are many good websites for Elementary school students. The following are just a few:

<http://school.discoveryeducation.com/sciencefaircentral/>

<http://www.sciencebuddies.org>

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

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

More good resources – books! Did you know that the Arrowhead library has many good books about science and science fair projects? Be sure to check them out the next time you are in the library. Your local library will have many science-related books as well your local bookstore.

With any science project, be sure to create an interesting display that shows what you learned throughout the process. Label your displays and summarize your findings. Use a science fair display board, poster board or cardboard (found at office supply or arts & crafts stores) to show your results. See the Rules section for size limits.

Make sure to give yourself plenty of time to do your project. If you are testing types of fertilizer, make sure you plan enough time for plant sprouting and growth. Whatever you choose to do, keep it simple and have fun!

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Are you interested in doing an experiment? Use the scientific method to help you through the process.

Question:

Ask a question which can be answered by observation, experimentation or research.

Hypothesis:

Predict what the outcome will be based on your experiences and/or information from available resources.

Materials:

Identify materials, equipment and resources that will be needed for your project.

Procedure:

Establish a step-by-step sequence of what is to be done; be specific and label your steps (1, 2, 3, etc.).

Results:

Organize and display a complete record of your observations and results. Use graphs, charts or pictures to present your data and findings.

Conclusion:

Using the data from your results, answer the question that you originally asked. Note any additional comments, explanations or why the results did or did not match your hypothesis.

Project Rules

- All work should be done by individual students (no teams). Appropriate assistance may be provided by parents, teachers or others.
- Projects **must** be turned in and set up by the student on Tuesday, March 16th between 3:30 and 5:00 pm.
- Projects **must be taken home on March 16th at the end of the fair**. Projects remaining after the fair will be properly disposed of.
- **Project display must fit a table space of 3 ft. wide by 2 ½ ft. deep. All displays must be free standing.**
- Projects are entered at the student's own risk. Neither Arrowhead Elementary nor the Arrowhead PTA are responsible for loss of or damage to projects.
- Live animals, open flame and valuable equipment may not be part of your display, but may be shown by using pictures or sketches.
- If any experiment will contain moving liquids (i.e. volcanoes), the project must be on a spill-proof tray. Be sure to bring the appropriate cleaning supplies.

Free Display Boards!

The Arrowhead PTA will provide a white standard-size science fair display board, or you can provide your own display board. Please check your preference on the registration form.

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Double-Egg Drop Challenge:

The objective of the Double-Egg Drop Challenge is to create a container that will cushion two eggs so that they do not break as the container is dropped from the top of a ladder.

Rules:

- Individuals or teams of no more than two students may enter. You may have only one entry in the Challenge.
- Design a container that will protect two fresh, raw, large, grade-A eggs from breaking, chipping or cracking when dropped from the top of a ladder.
- The maximum width, depth and length of your container is 6 inches.
- Eggs will be provided at the Science Fair and are the only eggs allowed for use. Contestants shall provide all other materials.
- Your container may not include any substance that will splatter (including, but not limited to, peanut butter, jell-o, any liquids, etc.).
- After the drop, your eggs shall be presented to be checked for cracks, chips or breaks.

Registration Info:

Registration

All registration forms are due by Friday, March 12th, 2010.

All entries will be eligible for weekly Friday drawings for science prizes! There will be two drawings each Friday, one for the primary grades and one for the intermediate grades. The last drawing will be held on Friday, March 12th.

Science Fair

Each student who enters a project in the fair is a winner! All participants will receive a custom participation certificate and ribbon. In addition, an independent panel of judges will score the science projects and ribbons will be awarded for 1st, 2nd and 3rd place finishers in each grade level.

Double-Egg Drop Challenge

All entrants will receive a participation certificate.

Questions?

Contact Cristen or Robert Hoffman at akahoffman@comcast.net or (425) 483-6219.

Schedule:

3:30 – 5:00 pm	Project registration and set-up
6:30 pm	Science Fair begins
7:00 pm	Double-Egg Drop Challenge begins
8:30 pm	Science Fair ends

ARROWHEAD ELEMENTARY 2010 PTA SCIENCE FAIR Project Entry Form

Student's Name: _____

Phone No: _____ Grade: _____

Teacher: _____

Project Title: _____

Brief Project Description: _____

A few project rule highlights:

- Projects **must** be set up by the student on Tuesday, March 16th between 3:30 & 5:00 pm.
- Projects **must be taken home on March 16th at the end of the fair**. Projects remaining after the fair will be properly disposed of.
- Project display must fit a table space of 3 ft. wide by 2 ½ ft. deep and free standing.
- Live animals, open flame and valuable equipment may not be part of your display, but may be shown using pictures or drawings.

I have read and agree to follow the Science Fair Project rules:

Student: _____

Parent/Guardian: _____

Yes, I would like a display board.

No thanks, I'll provide my own.

ARROWHEAD ELEMENTARY 2010 PTA SCIENCE FAIR Double-Egg Drop Challenge Entry Form

(If working in a team of two, both students must fill out this form.)

Student's Name: _____

Phone No: _____ Grade: _____

Teacher: _____

I have read and agree to follow the Catapult Challenge rules:

Student: _____

Parent/Guardian: _____

Student's Name: _____

Phone No: _____ Grade: _____

Teacher: _____

I have read and agree to follow the Catapult Challenge rules:

Student: _____

Parent/Guardian: _____