

Science Fair 2022



Experiment with the VES PTA Science Fair!

IN PERSON!!! on March 24

- Students will do projects on tri-fold boards
 - The Science Fair will be at school!
- Visiting Scientists will visit students and discuss the students' projects!
 - Certificates, ribbons, and pencils for the participants!

Plant some seeds and see how they grow!

Get attracted to magnets!

Shake up a potion! Explore the universe!

Join the fun at the Science Fair!

The Science Fair is a non-competitive event for kindergarten through 5th Grade. Students pick a topic, conduct an experiment, and share their results. Each year an amazing variety of projects are presented.

It's loads of fun!

Questions? Contact us @ sciencefairves@gmail.com.

Save a tree and sign up online!

https://docs.google.com/forms/d/e/1FAIpQLScLF_Y-T5ua3wQuSUR-Gw7WkluLldLunVOETBKcf9jgGMfpNw/viewform?usp=sf_link

Sign up deadline: Wednesday, 3.18.22

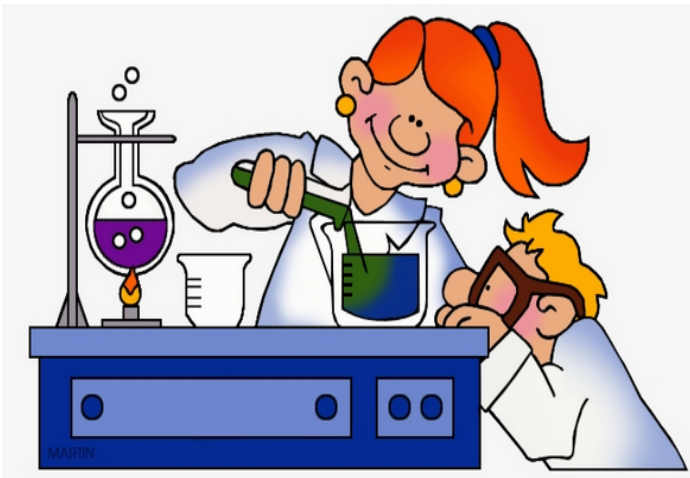
Important Guidelines

For the safety of and fairness to all participating in the science fair, please follow these guidelines when preparing your projects.

Guidelines for all projects:

1. Projects should be presented on a trifold (or other similar) board (e.g., tri-fold boards available at craft and department stores) and then pictures of the display board.
2. Each project will be given a project number.
3. Only first names and project numbers should be put on display boards.
4. Safety first! Please be careful doing experiments, especially with open flame/heat sources, allergens, glass, etc. Make sure there is adult guidance!
5. Be kind to live animals; if you involve them in your project, make sure they are safe and comfortable.

MORE ABOUT SCIENCE FAIR



Who can participate? We encourage students at all levels to participate. Even kindergarten and first grade students can conduct simple experiments, sort and present collections, or investigate a topic of interest. Family participation is welcome for younger students. Students may also work together, but we recommend no more than two students per project.

What happens during the Science Fair? The Science Fair is scheduled for **Thursday, March 24**. **We plan to have the event IN PERSON (yay!) and have Visiting Scientists visit students to discuss their projects.** Details will depend on several factors

(e.g., number of students signing up, Covid transmission rates, school policies in March, etc.), so we will be updating this information as we progress toward the event.

How much time do projects involve? Many experiments can be completed in several hours, while more involved projects may take several weeks to complete. If time is of the essence, choose a simple experiment that doesn't involve making observations over a long period of time. Projects should be presented on a display poster (see below for info on setting it up), which takes a bit of time to put together. Time management is essential, especially for more involved projects. Display Board Information is on the last page of this document.

What if I don't know anything about science?? Don't worry! Think of science as a way to find out all sorts of things about the world, rather than a set of complex facts or theories. The science fair is about investigating topics that interest your child or, perhaps, finding a topic that sparks your child's interest.

Need Help or Ideas? There's lots of good information and support available should you need help:

- **Check out the library!** The public library has a number of books on science fair projects and science topics. The Voorheesville Library will soon have a display of science related books, and you can search the library catalog for books on your science fair topic to get background information. You can search the library's catalog and request items for pick-up (during open hours) from Voorheesville and other local libraries at voorheesvillelibrary.org.
- **Use the Web!** There are a number of informative Web sites on science fair topics. Try these or use your search engine and type in "science fair project ideas."

<http://www.education.com/science-fair/>

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

Have fun!



How do Scientists do their work?

Students learn the scientific practices (scientific method) during their regular Science Lab and are encouraged to use them when completing their science fair projects.

1. **Observations** – Students observe things in their world or through books. Example: Students might see a commercial for paper towels and wonder if one paper towel is really better than others. Or, students might read about how plants need water to live and wonder if orange juice or lemonade would support plant life.
2. **Research Question** – Based on the observations, students ask a question that they can test. For example, do different brands of paper towels absorb water equally well? Or, will plants grow better in different liquids?
3. **Prediction/Explanation** – Students predict and/or explain what they think the answer to their research questions is. For example, that different brands of paper towels will absorb the same amount of water, or that plants will grow less in orange juice than in water. If they add an explanation, they have a hypothesis.
4. **Experiment/Investigation** – students set up supplies and procedures to answer their question. For example, three types of paper towels could be placed on three equal sized water spills of the same amount of time to test their absorption. Or, two plants of the same size and type could be fed the same amount of water or orange juice for three weeks.

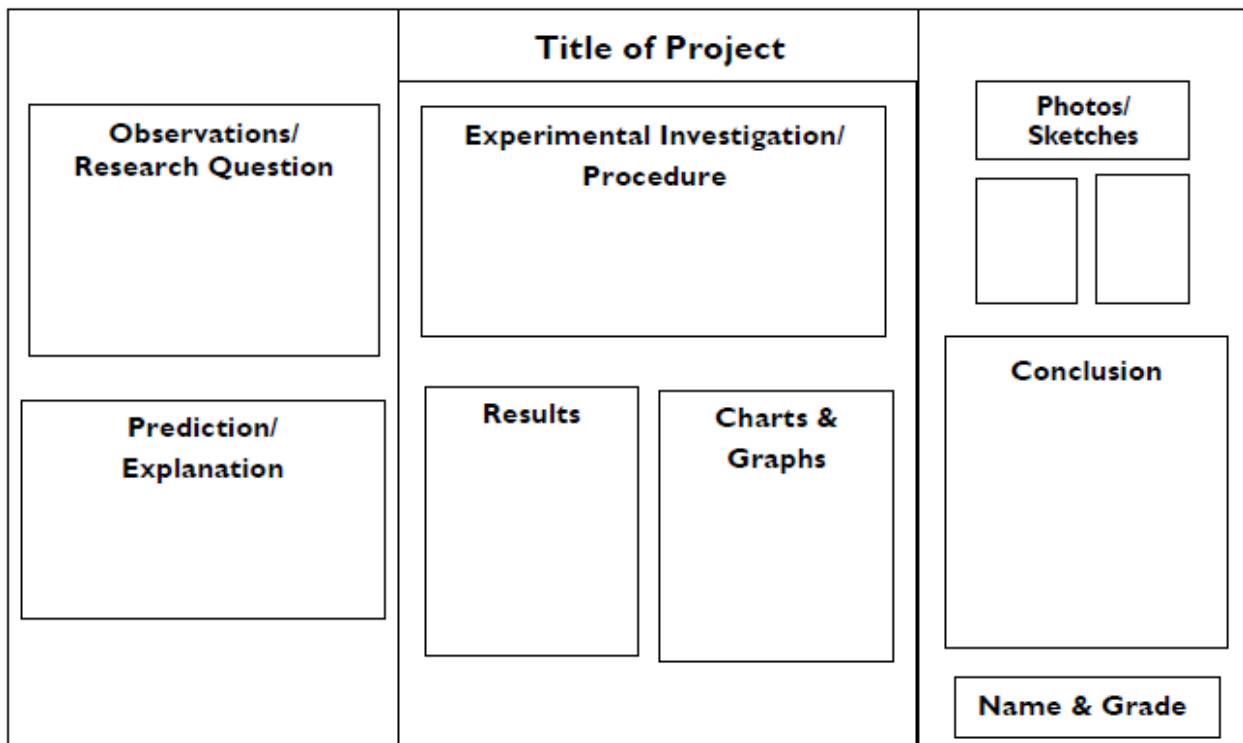
5. **Collect & Analyze Data** - Information is collected/measurements are made that can be compared. For example, the amount of water left after each paper towel was used can be measured, or the height of the plants (or number of new growths) could be measured. Student should try to include charts or graphs showing their results.
6. **Conclusion** - Try to answer your question using the evidence (data). Consider what could be done next, or better or differently, to investigate this topic.
7. **Communicate Information** - Share what you have learned with others. Display your work on a tri-fold or other display board. Be sure your work is neat and easy to read.



Project Display Layout- Sample

Sharing your results with others at the Science Fair can be as much fun as performing the experiment. Make sure your presentation is easy to read and clearly explains what you did and what results you obtained. Be prepared to answer questions.

Display your project in a similar fashion as the sample project display layout here. You can purchase folding table-top display boards or foam board (typically students use tri-fold boards) at stores like JoAnn's, A.C. Moore, Michaels and large department stores.



Equipment (on table in front of project board)