

# Science Fair - April 25, 2024

6:00 - 6:30 Set-up

6:30 - 8:30 Science Fair

## Looking for Science Fair Ideas?

Barnsley School Library or your local public libraries have numerous books on science fairs.

Online web searches. There are lots more than what is listed here. Just Google search "science fair experiments".

This site has project ideas that can be filtered by grade and by subject.

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

This site has project ideas arranged by grade and subject.

[http://www.sciencebuddies.org/science-fair-projects/project\\_ideas.shtml](http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml)

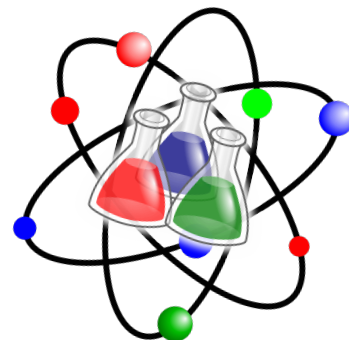
This site has project ideas, resources on the scientific method and tips to help you get started. <https://sciencebob.com/category/science-fair-ideas/>

YOUR OWN MIND: Parents, don't forget this vast resource of ideas. Kids are full of wonderful questions that can be explored. Simply ask them what they have wondered about. This alone is much of the fun.

TV commercials: Test their claims! Does one brand of diapers really absorb more moisture than another brand? Can kids tell the difference between Coke and Pepsi?

## Safety Rules to keep in mind:

- No flammable, corrosive, explosive, or highly poisonous substances
- No aerosol cans
- No open flames
- No glass containers if plastic can be substituted
- No dry ice
- No experimentation on live animals (observations are O.K.)
- No live pathogenic cultures (bacteria, yeast, mold, etc.)
- No electrical hazards (no electrical cords; batteries are O.K.)
- No hypodermic syringes or needles
- No radiation hazards
- No armed rockets or propellants



# Review of the Scientific Method

**Testable question:** The question your investigation will answer.

First, you need to come up with a testable question for your investigation. Remember a testable question is:

- Not an opinion
- Can't be answered with just yes or no
- Can't be answered by looking it up.

Non-Testable	Testable
How do plants grow?  Note: Each of the testable question examples relate to the same topic, but change only one variable and can be answered through collecting data during your investigation.	<ul style="list-style-type: none"><li>• How does changing the amount of water affect the growth of tomatoes?</li><li>• How does changing the type of soil affect the growth of petunias?</li><li>• How does changing the amount of sunlight affect the growth of daffodils?</li></ul>

**Hypothesis:** 1 - 2 sentences answering your testable question (BEFORE investigation is done)

**Materials and Tools:** List items - materials and tools used during your investigation. (include amounts if you can)

**Procedure:** Write step by step directions on how you completed the investigation (numbered steps)

**Results:** Explain what happened during your investigation. You can write your results in a paragraph or bulleted points. Also, you can include charts or graphs to show your results.

**Conclusion:** In this section analyze your results. What did you find out from your investigation? What was the answer to your testable question? Was your hypothesis correct? Write a paragraph explaining the answer to these questions.

- ★ **You will display each of the parts described above on your tri-fold. Be creative with your design and how you share your results.**
- ★ **You can work alone or in groups of 2 - 3, but remember you will be completing this project outside of school.**
- ★ **The most important part is to have fun! We can't wait to see your projects!**