

Science Fair

4th Annual Brookside Elementary Science Fair

April 27th, 2012

Important Dates

March 23rd

Hand in signed Safety Guidelines and Permission Slip to your teacher.

March 29th

You will receive your display board.

April 27th

It is Science Fair day! Bring your Science project display board and any other project materials to the Multi Purpose Room beginning 8:00 a.m.

Make sure to pick up your project at the end of the day. We cannot store it over the weekend.

SAFETY GUIDELINES and PERMISSION SLIP

4th Annual Brookside Elementary Science Fair

April 27, 2011

Form due to your teacher by **March 23, 2012**

Proper attention to safety is expected of all science fair participants.

Anything which could be hazardous to public display is prohibited. This includes:

1. Syringes, pipettes and similar devices or any glass items
2. Any flames, open or concealed
3. Highly flammable/combustible gases, liquids or solids
4. Dangerous chemicals including caustic and acids
5. Poisons, toxic and hazardous chemicals, drugs and other controlled substances
6. Dry ice or other sublimating solids
7. Tanks which have contained combustible liquids or gases, unless they have been purged with carbon dioxide
8. Operation of a class III or IV laser
9. Projects with unshielded belts, pulleys, chains and moving parts with tension or pinch points that pose a potential hazard to observers
10. Batteries with open top cells are not permitted. Other types of batteries may be used for electrical power
11. Animals
12. Living organisms
13. Spoiled foods, molds, bacteria, microorganisms or any other type of cultured growth unless they are in a sealed plastic container.

I have read through the Safety Guidelines and my project will conform to the standards.
I am committed to completing a Science Project for the Fair.

Student Name: _____

Student Signature: _____

Parent Signature: _____

My Question: _____

Teacher Name: _____

- Included a check payable to Brookside PTA for \$2.00 to purchase a display board

Science Fair Guide

4th Annual Brookside Elementary Science Fair

April 27, 2011

General Overview

The Science Fair is a chance for you to explore an area of science of your choice and demonstrate what you learned. Your Science Project Display Board will be displayed in the Multi Purpose Room (MPR) on Friday, April 27 from 8:30-2:30.

You must register to participate in the Science Fair by filling out a Safety Guidelines and Permission Slip form!

Turn in your Permission Slip form to your teacher by March 16th. Include a check payable to Brookside PTA for \$2.00 to cover the cost of your display board.

Each participant will exhibit his or her work using the purchased display board.

Bring your completed display board to the MPR at 8 a.m. on Friday, June 3, 2011. The boards will be set up in the morning and taken home after school the same day.

During the day each class will visit the MPR to view the projects. Each participant will stand by his or her display while his or her class visits the MPR to allow your classmates to ask questions.

Each student completing a display board will receive an acknowledgement for participating.

Science projects not conforming to the safety standards and guidelines will not be accepted for display at the Science Fair on April 27, 2011.

Questions?

Contact Eva Larson via email
at: meshugene4eva@yahoo.com

The Scientific Method

The Scientific Method is the fundamental way scientists prove or disprove their theories. It is a step-by-step approach to investigating something in a logical and repeatable manner. Students should apply this method in completing their project.

The Scientific Method consists of five basic steps:

1. Ask a Question
 - a. What do you want to find out?
 - b. Use any crazy idea you want!
2. Make a Guess, form a Hypothesis
 - a. What do you think will happen?
3. Test Your Hypothesis by Doing an Experiment
 - a. How will you find out if your hypothesis is correct?
 - b. What materials do you need?
4. Analyze your Test Results
 - a. Record your findings.
 - b. Organize your data into charts, graphs or tables.
 - c. Determine what actually happened.
5. Conclusion
 - a. What did you learn?
 - b. Communicate your results.

Project Timeline

It is best to work on this project a little at a time. If you follow our suggested project timeline this project will be easy and fun!

Task	Due Date
Find a project idea and construct hypothesis	March 5 to 18
Turn in Safety Guidelines and Permission Slip	March 23
Design experiment	March 19 to 23
Do the experiment	March 24 to April 12
Analyze data and make conclusion	April 12 to 18
Work on display board	April 12 to 26
Bring display board to MPR at 8:00 a.m.	April 27

Resources

Every scientist needs a little inspiration! Check out these websites there are tons of great ideas.

- www.sciencebuddies.com
- www.stevespangler.com
- www.sciencebob.com
- www.billnye.com
- www.Scienceclub.org
- www.exploratorium.edu
- Google
 - “Science fair ideas”
 - “Science Experiments”
 - “Science project”
- Visit the library

Display Guidelines

The purpose of the display is to summarize your project and help others learn from what you have done. Your display should include your question, hypothesis, data, results and conclusion. You may organize your board however you want, but it should be neatly done and colorful.

- Use a tri-fold board provided by Science Committee at a cost of \$2.00. Do not buy your own board, you will not find it cheaper anywhere else!
- You may bring samples of your experiment but your exhibit must fit the confines of the display board (36” x 48” tri-fold)
- Your exhibit may include journals, models, photos, or samples of the experiment
- These things are not allowed for the safety of others: animals, glass or open containers, open flames, electricity in your exhibit (you may use batteries).
- Get fancy! Make it unique!



Tips for Parents

- Let your child decide what he or she wants to do
- Read the Safety Guidelines
- Sign the Permission Slip
- Be there to help, but not to direct the project
- Start early. Avoid last minute frustrations
- Make this project about learning
- Have fun!
- There is no judging
- Keep it simple. Look for a project that you can do over a fairly short time span, such as over a weekend.

Last year's Science Fair ideas included:

Flash Floods
Magnetic Rail System
Which Bubble Gum Makes the Biggest Bubbles?
Potato Battery
Tooth Decay
Human Lungs
Bubble Shapes
Mixing Colors
Plant Growth
And many, many more!

Your PTA contributions are at work in these
science enrichment activities sponsored by the
PTA.
Thank you!!!!

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