

## 10th Annual Brookside Elementary PTA Science Fair April 13th, 2018

The PTA Science Fair is a chance for students in grades K-5 to explore an area of science and demonstrate what they've learned. Science project display boards will be exhibited in the Multi-Purpose Room (MPR) on Friday, April 13th.

During the day, each class will visit the MPR to view the projects. Each participant will stand by his or her display while their class visits and can answer any questions their classmates have about their projects. There is no judging.

Projects will also be on display during our Family Science Night that same evening!

**To participate in the Science Fair, you must fill out a Safety Guidelines and Permission Slip on ParentSquare before March 2nd.** (You do not need to know what your project will be at this time.)

For questions or further information, please email Joanna Peterson at [besbulletin@gmail.com](mailto:besbulletin@gmail.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 when completing their project.

The Scientific Method consists of five basic steps:

1. Ask a Question

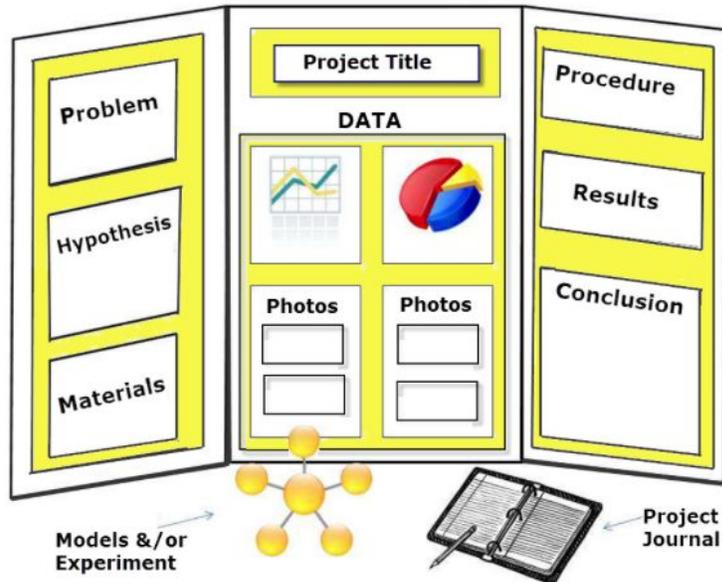
- a. What do you want to find out?
  - b. Use any crazy idea you want!
2. Make a Guess, form a Hypothesis
    - a. What do you THINK will happen?
  3. Test your Hypothesis by doing an Experiment
    - a. How will you find out if your hypothesis is correct?
    - b. What materials do you need?
  4. Analyze your Test Results
    - a. Record your findings. What REALLY happened?
    - b. Organize your data into charts, graphs or tables.
  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!

| <b>Task</b>   | <b>Target Date</b>    |
|---|-----------------------|
| Find a Project Idea and Construct a Hypothesis  | Now until March 2     |
| Complete Permission Slip on ParentSquare  | No later than March 2 |
| Design and Complete the Experiment  | March 2 - March 30    |
| Display Boards Delivered to Classrooms  | March 23              |
| Analyze Data and make a Conclusion  | March 30 - April 1    |
| Work on the Display Board   | April 1 - April 12    |
| Bring Display Board to the MPR at 8:00AM  | April 13              |
| Family Science Night!<br>(remember to take your board home at the end of the evening) | April 13              |

## Science Fair Display Model



## Display Guidelines

- Each student must exhibit their work using the tri-fold display provided by the PTA. Display boards will be delivered to your child's classroom on Friday, March 23.
- The display should summarize the project and help others learn from what you've done. It 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.
- Your exhibit may include journals, models, photos, or samples of the experiment. However, it must fit the confines of the display board (approximately 36" x 48" area).
- Displays must be stand alone and require no electricity. Outlets will not be provided. (You may use batteries in your experiment.)
- For safety reasons, your exhibit **MAY NOT INCLUDE** items that are dangerous to the public. Please see the Safety Guidelines for a list of prohibited items.
- Science projects not conforming to the Safety Guidelines will not be accepted for display at the Science Fair.
- Each student completing a display board will receive an acknowledgement for participating.

## Resources

Every scientist needs a little inspiration! Check out these websites for great ideas, or search “Elementary School Science Fair Ideas.” Pinterest is also a great source to check.

[www.sciencebuddies.com](http://www.sciencebuddies.com)

[www.exploratorium.edu](http://www.exploratorium.edu)

[www.sciencebob.com](http://www.sciencebob.com)

## **Tips For Parents**

- Suggest age appropriate projects, but let your child decide what he or she wants to do.
- Read and follow the Safety Guidelines.
- Be there to help, but try not to direct the project.
- Start early to avoid last minute frustrations. Look for projects that can be completed over a short time span.
- Have fun! Make this project all about learning.
- Remind your child that there is no judging.

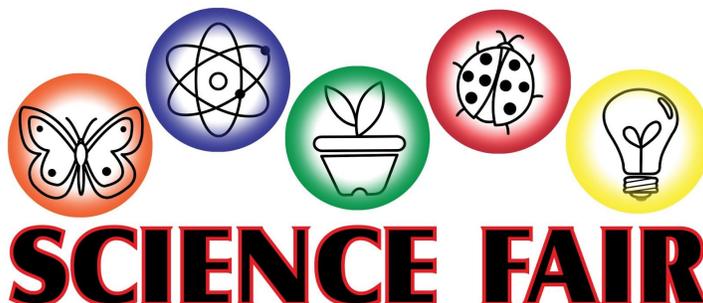
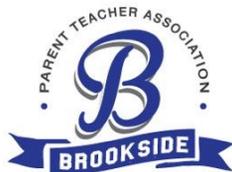
### **Previous Brookside Science Fair ideas have included:**

Magnetic Rail System  
Which Gum Makes the Biggest Bubbles?  
Potato / Lemon Batteries  
Tooth Decay  
Condensation  
Plant Growth

Flash Floods  
Human Lungs  
Growing Crystals  
Evaporation  
Bubble Shapes  
Mixing Colors

**Your PTA contributions are at work in these science enrichment activities. Thank You!**

For questions or further information, please email Joanna Peterson at [besbulletin@gmail.com](mailto:besbulletin@gmail.com).



## Brookside Elementary PTA Science Fair

### SAFETY GUIDELINES

Proper attention to safety is expected of all Science Fair participants. Anything which could be hazardous to the public is prohibited. Science projects not conforming to the Safety Guidelines **will not be accepted** for display at the Science Fair.

This includes:

- Syringes, pipettes and similar devices
- All glass items
- Any flames, open or concealed
- Highly flammable/combustible gases, liquids or solids
- Dangerous chemicals, including caustic and acids
- Poisons, toxic and hazardous chemicals, drugs and other controlled substances
- Dry ice or other sublimating solids
- Tanks which have contained combustible liquids or gases, unless they have been purged with carbon dioxide
- Operation of a class III or IV lasers