Patterson Elementary Science Fair Project Helpful Hints 2018

March 7, 2018 from 6:30-8:30pm

Patterson is hosting its annual Science Fair! This is a completely voluntary program intended to get the kids excited about Science. All grades are encouraged to participate. Attached are some guidelines and helpful tips. Science Fairs provide opportunities for kids to creatively explore an area that interests them, and to do science themselves!!

Thinking of your science fair project can be fun and challenging. First, think of an area that interests you. Think of a problem you would like to solve in that area. Then, form a hypothesis – run your experiment – collect data – and form a conclusion.

Depending on grade level, we encourage slightly different types of projects. A display project is great for Kindergarten up to 2nd grade. A display project would explain or show an area of science. Students in higher grades are encouraged to ask and hopefully answer questions in their work. Here are a few examples of how to change a display project into one that asks (hopefully answers) a question. Students may work in groups up to 3 kids.

Kindergarten – 2nd Grade

- The Five Senses
- Planets of our Solar System
- Dinosaurs of the Jurassic Period
- Models of the Digestive System

3rd – 5th Grade

- Which of the five senses is used the most?
- How high is Venus in the night sky?
- Why did dinosaurs get so big in the Jurassic Period and then smaller in the Cretaceous?
- How long does it take for food to travel through the digestive system?

Patterson Elementary Science Fair Safety and Planning Guidelines

Before starting your science project, take some time to think about possible safety issues associated with your project. Projects should be the work of **individual** students and be monitored by a parent.
*Parents are responsible for insuring that proper safeguards are in place for any hazardous chemicals, electrical or mechanical equipment, open flames, cultures, or other hazards that may exist.

Exhibit Guidelines

At the science fair, you will be allocated space at a table on which to place your exhibit. To make the Science Fair a safe and fun experience for the families that will be attending the fair, please follow these guidelines when creating an exhibit:

- Include your project title, name and class on a tri-fold display.
- Your display must fit within the allocated space of 36 in. wide and 15 in. deep. The display must be self supporting.
- In addition to the display board, other materials such as papers and dioramas may be included.
- Items brought to the fair MUST fall within the school safety guidelines.

Presentation

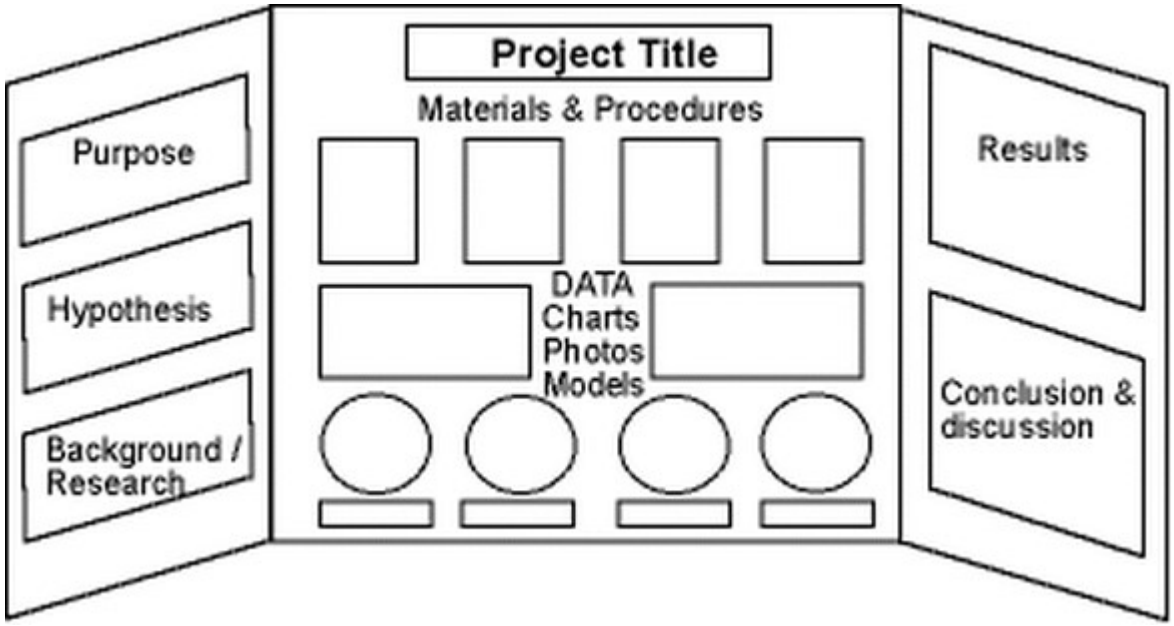
Students should be prepared to briefly discuss their project with visitors and answer questions. In addition, judges will be offering additional feedback on their projects. Here are some questions the judges may ask you:

- What is the title of your project?
- Tell me about your project?
- What did you think would happen?
- Did you repeat the experiment?
- What is your control and conclusion?

The Patterson Science Fair is **NOT COMPETITIVE**. Each student will be recognized!

All Students are encouraged to participate or just to come see the exhibits!

Sample Science Fair Tri-Fold Display Board



Student Checklist

- ✓ Problem (Idea)
- ✓ Research
- ✓ Hypothesis
- ✓ Method (Experiment Plan)
- ✓ Data
- ✓ Results
- ✓ Conclusion
- ✓ Science Display Tri-Fold
- ✓ Interview by Judges

Science Fair References

*Check with the LMC for Science related books.

*Websites:

- http://www.ipl.org/div/projectguide/
- www.sciencebob.com
- www.sciencekids.co.nz/experiments.html
- http://sciencebuddies.com
- www.all-science-fair-projects.com
- http://super-science-fair-projects.com/elementary-science-fairprojects.html
- Books by Janice Van Cleave

Tri-folds are available at Wal-Mart, Meijer, Office Depot, Target

Please check the Patterson Website under PTA tab >> STEAM/Science Fair for detailed Science Fair ideas and project planning.

Science Fair Ideas:

Check out these Science Fair ideas to help you get started!
Pick on from the list, or let an idea inspire you.

K – 1st

Food Pyramid
Sorting and Classification of Dinosaurs
Smell: Sniffing Jars
Plants and Water
Exploring Taste
Static Electricity with Balloons

2nd-3rd

Human Body
Space And Astronomy
Life Cycle of a Frog
String Phone (sound)
Egg Drop
Grow Salt Crystals
Paper Airplanes (test different papers)

4th—5th

Volcanos
Make a Kaleidoscope
Make a robot
Germs
Video Games (positive & negative effects)
How does a parachute work?
Rain Gauge
How Colors Affect Emotions

**This file has been updated from the original version created for the Patterson Science Fair 2014.*