

2020 SMOKY ROW Junior Science Fair

SCIENTIST'S GUIDE

Last Updated: February 7, 2020

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**Please feel free to contact the Science Fair Committee with
any questions at: smokyrowpto@gmail.com**



2020 SMOKY ROW Junior Science Fair **FAMILY LETTER**

We are so happy to announce a Junior Science Fair for Smoky Row students from Kindergarten to 3rd Grade. This Science Fair is for our younger Smoky Row students and is intended to encourage their interest in Science. All students who register a science fair project will present their project board at SRE to any other attendees who are interested in their project. The Fair will be open to all parents, family members and teachers who wish to come and support our budding scientists.

There will be no judging or awards. This is a participation event to help children organize their scientific thinking and present it to others, growing their interest in science and preparing them for the competitive science fair in 4th and 5th grades.

Thursday, February 27 - SRE Cafeteria/Gym

5:00 p.m. Check-in; project board set-up

5:15 p.m. Junior Science Fair Open

6:00 p.m. Recognition ceremony with Mrs. Jay

6:15 p.m. Students head home with Parents

PARENTS:

1. Plan for your student to eat dinner early or late this night (or have them bring a water bottle and a light snack to hold him/her over while at the fair) as no food is provided for students.
2. Please do not bring snacks containing nuts for the safety of others with allergies.
3. Please arrive at Door No. 6 on the school's east parking lot (by the cafeteria/gym) at 5:00 p.m.
4. Parents are invited to stay. You are free to look at all the projects being exhibited and fill out feedback forms for our scientists.

SCIENTISTS:

1. You will check in at the registration table.
2. Make sure your board is labeled with your name on front and your teacher's name on the back.
3. Please bring only your display board; leave your experimental items at home. You can display pictures on your board of the experiment you did at home.



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GUIDE FOR PARENTS

Parents: your child will need different amounts of help depending on their age and grade, so try to help without taking over the project to maximize the learning opportunities for your child. Here's a helpful article about how to help without taking it over:

<https://www.sciencebuddies.org/parent-resources/how-to-help-your-student>

During the science fair, please look around at other childrens' projects and fill out the provided feedback form for at least 2-3 other children.



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STUDENT REGISTRATION

- Follow this link to the online registration form:
[SRE Junior Science Fair Registration Form](#)
- EACH student is required to complete registration, even if they are working with a partner (this is needed for student check-in and the recognition ceremony).
- No registrations will be accepted after February 20, 2020



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Scientific Method for Younger Children

- The Steps are:
 - Ask a Question
 - Guess the Answer
 - Test to see if your answer is right!



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Science Fair Ideas

Project Ideas for K-3 Grades

- What happens when you put glow sticks in frozen salt water?
- What happens when you freeze bubbles?
- What happens when you put mini marshmallows in a syringe?
- What happens when you put a drop of food dye on the surface of some milk in a bowl?
- Why do words look upside down when on the other side of a glass of water?

More Ideas can be found at:

[Kindergarten Science Fair Ideas](#)

[1st Grade Science Fair Ideas](#)

[2nd Grade Science Fair Ideas](#)

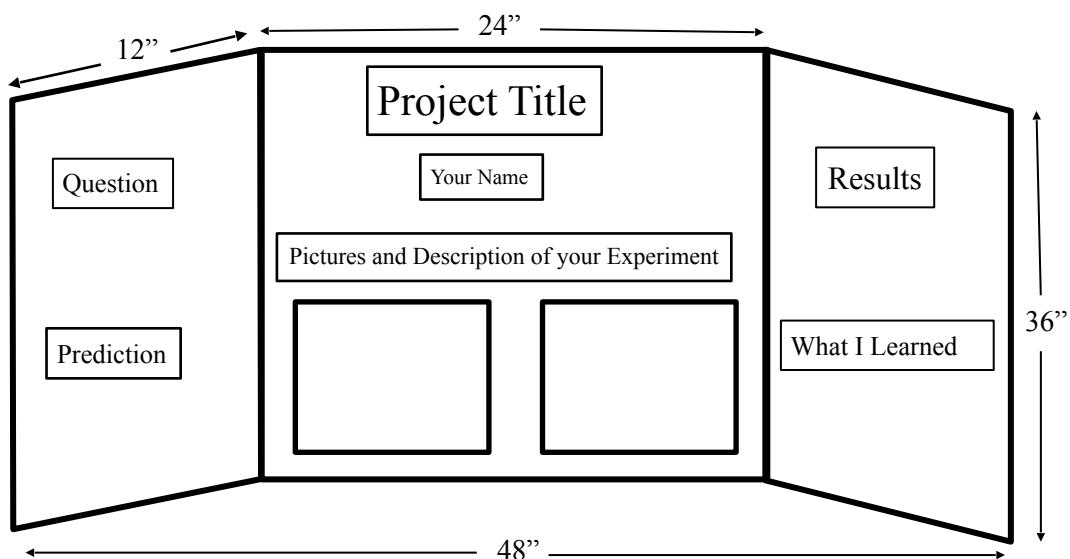
[3rd Grade Science Fair Ideas](#)



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- Poster Board Guidelines & Example
 - Left Side = Question
 - Middle = Test to see if answer was right
 - Right = Answer to the question

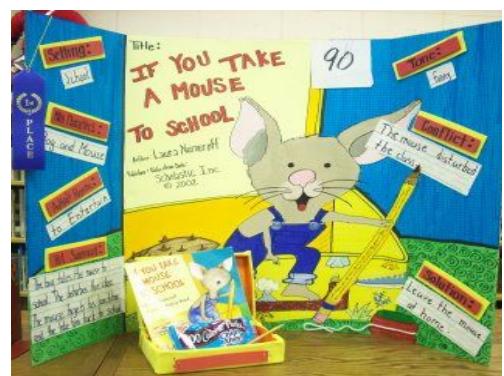
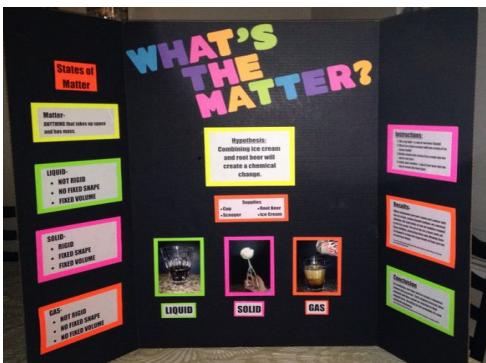
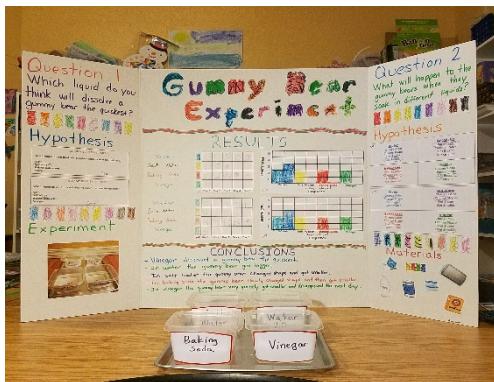
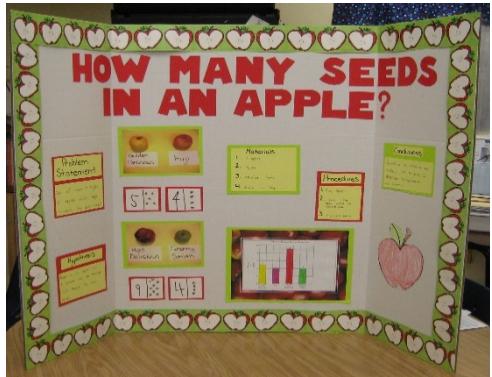
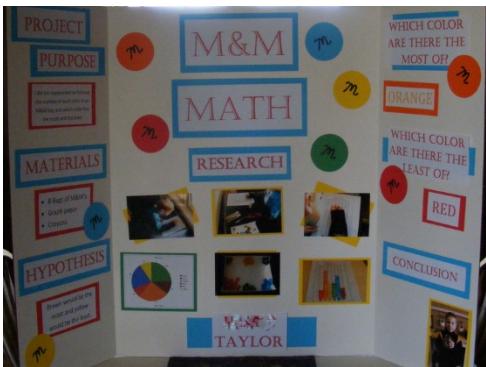
Science Fair Display Layout





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DISPLAY EXAMPLES





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Science Fair Rules

Prohibited Exhibit Items

- **Water or other liquids**, even in a sealed container **CANNOT** be part of the exhibit, however, the student can use water or liquids for experiments and should consider **photographs, drawings, diagrams, or text** to describe the project in the display, not the prohibited materials themselves.

Prohibited Project Items

- The following list of **PROHIBITED** items **cannot** be part of the Science Fair:
 - Projects **CANNOT** involve unnecessary pain or discomfort to any animals (e.g. mammals, birds, reptiles, amphibians, or fish). These are strictly prohibited! Conduct projects in a humane manner.
 - **Living or formerly living materials including:**
 - Microbes (bacteria, yeasts, molds, or algae)
 - Spoiled food or other decomposing organic matter
 - Microbial cultures
 - Soil or waste samples
 - Dried plant material and taxidermy specimens or parts
 - Human or animal parts (exceptions: hair, teeth, nails, bones, histological sections and wet-mount tissue slides)
 - Radioactive Substances
 - Sharp items
 - Flames or highly flammable materials
 - Tanks with any substance under pressure
 - Batteries with open-top cells
 - Hazardous Chemicals
 - Poisons, drugs, or controlled substances
 - Dry ice or other sublimating solids
 - Moving parts with unprotected belts and/or pulleys
 - Class III and IV lasers
 - Other items which in the judgment of the Science Fair Committee that may pose a threat to the health or safety of participants, or spectators