

# Riverview Learning Center



## Science Expo

Thursday, April 5, 2018

5:30-7 PM

### An Evening of Fun and Exploration!

Information and Registration Packet



All students are encouraged to do a science project!

RLC will supply tri-fold boards to all participating students.  
Both large and small boards are available.

(Small boards work great for the younger students!)

### All of types of projects accepted.

Make a Collection! Build an Apparatus!

Do an Experiment!

Research a favorite subject or animal!

Demonstrate your favorite science principle!

# Science Expo Guidelines:

1. Ask a science question.
2. Pick a project type.
3. Have fun doing science!

**Ask a science question.** Science questions are answered with facts and observable data, not with opinions. Here are some examples:

OK (observable)	Not OK (matter of opinion)
How long does it take a plant to wilt without water?	Which rocks are the prettiest?
Which flower changes color first when put in dye?	Which brand of gum tastes best?
How many kinds of rocks are in my backyard?	What is our school's favorite animal?
What kinds of birds live in my neighborhood?	How many licks to get to the center of a tootsie pop?
What can I learn about manatees?	
What does a nuclear physicist do?	

## Pick a Project Type

COLLECTION-APPARATUS-DEMONSTRATION-RESEARCH-EXPERIMENT

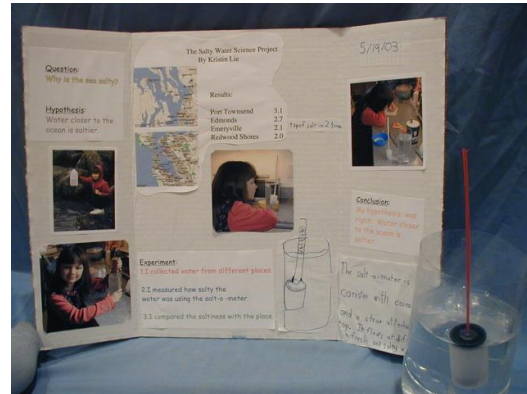
**Collections:** Many parts of nature can be safely collected, researched, and classified. In addition to shells, leaves, or rocks, consider creating your own collection of model birds' eggs, or even collecting items that have shrunk in size as a result of advanced technology—like calculators! Good collections are organized and well-labeled.



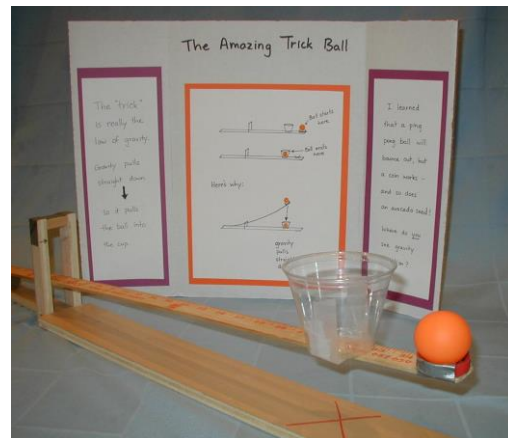
## Project Types (continued)

**Apparatus:** You can build an apparatus, like your own telescope or weather-recording information.

Sometimes building a model of how something works will teach you a lot about science, for example—how a heart works, or a telephone!



**Demonstration:** There are lots of project ideas online or in books that describe how to do what seems like a magic trick. These demonstrations can help explain a scientific concept. Unless your teacher has specified otherwise, science fair projects do not have to be your original ideas. There are many books with demonstrations to amaze your class!

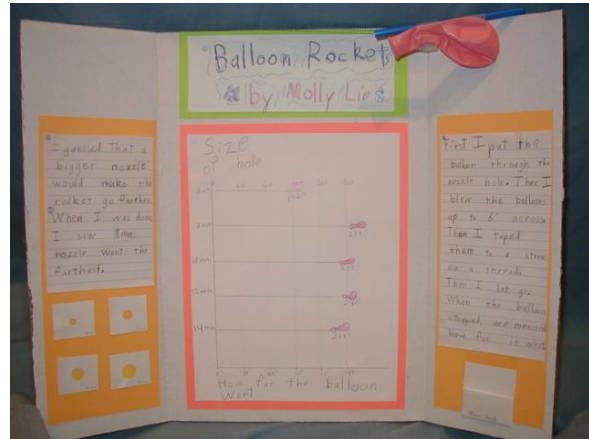


**Research:** All science projects involve looking around and asking questions. Many questions can best be answered by research. A research project may be a book report on an interesting animal, a famous scientist, or another topic of scientific interest, like black holes. Maybe you could choose to show the life cycle of a butterfly or frog. Choose your favorite!



## Project Types (continued)

**Experiment:** Ask a question, make a hypothesis, test one variable, record data, and report your conclusions. Many demonstrations can be adapted to create your own original experiment by changing one variable. For example, if you have done a demonstration of how you can make an egg float in salt water, you could then experiment to see if it would float in other dissolved solutions—like sugar water, or would it work with Epsom salts?



Great resource on HOW to make a display board look great:

<http://sciencefair.math.iit.edu/display/>

What is the Scientific Method or How do I run an experiment?

[http://www.sciencebuddies.org/science-fair-projects/project\\_guide\\_index.shtml](http://www.sciencebuddies.org/science-fair-projects/project_guide_index.shtml)

Science Question/Project Idea Resources:

Science Buddies: <http://www.sciencebuddies.org/>

Discovery Ed: <http://school.discoveryeducation.com/sciencefaircentral/>

Google Science Fair: <https://www.google-sciencefair.com/en/>

Science Bob: <https://sciencebob.com/>

Science Made Simple: <http://www.sciencemadesimple.com/>



# RLC Science Expo Additional Project Details

- All displays must be on freestanding tri-fold boards. We can't tape anything to the wall. Other display materials may be placed in front of the tri-fold board.
- If you have special requirements, like electricity, let Mrs. Schutte know the day before so that we can put the display in the best place.
- The school and teachers assume no responsibility for loss or damage to any exhibit, though we will do our best to respect and protect your work.
- Questions? Contact Mrs. Schutte: [schuttec@rsd407.org](mailto:schuttec@rsd407.org)

## Tips for Parents:

- Be positive about your child's work.
- Help your child collect materials. Inexpensive things around the house are often the best.
- Help your child set-up a schedule to complete all of the steps. Allow time for experiments to be run more than once.
- Take photos along the way, not just at the end. This gives the child something to place on their board and helps others understand their procedures.
- Help your child understand that there is no failure in science ~ it is about the learning of how things work.

Assist as needed, but let your child do the work. 😊

# RLC Science Expo Registration Form



Please return to Ms. Rodger by March 23, 2018 and she will give you a tri-fold board.

Science Expo is Thursday, April 5, 2018

Name: \_\_\_\_\_ Grade \_\_\_\_\_ :

My project is:

My science question is:

I would like a large Tri-fold Board \_\_\_\_\_

I would like a small Tri-fold Board \_\_\_\_\_

Do not bring dangerous items, fire, flying projectiles, or any living organisms other than plants unless pre-approved by Mrs. Schutte. *No experiments that involve dangerous chemicals, explosives, weapons, or harm to animals are allowed.*

Students who attend the Expo will be able to stand by their presentations to discuss and/or give a demonstration. Each student and all parents will have cards with starter questions to make it fun and easy!

Signature of Student: \_\_\_\_\_

Signature of parent or guardian \_\_\_\_\_