

Registration for the April 20<sup>th</sup> Show What You Know Expo is open. Registration closes on April 13<sup>th</sup>. Registration is FREE!

Register online at  
<https://www.pay4schoolstuff.com/>.

Please contact Susannah Cretal at swykexpo@gmail.com if you have any questions or need additional information.

### **Rules and Guidelines for Students**

1. Register online no later than April 13, 2018. Every participating child must submit a form, even if s/he works with a partner and/or is participating as part of a class requirement.
2. Present the project on a three-panel presentation board available from a craft or office supply store. Science projects should follow the Scientific Method (see Scientific Method information that follows below). Projects involving models should also have a presentation board explaining the process and theory behind the work. If you want to show a collection, it must fit onto a 1' x 3' section of a table (if the collection is valuable please contact Susannah Cretal at swykexpo@gmail.com for special arrangements).
3. **Include your project title and your name on the front of your board. Write your name, grade and teacher's name clearly on the back of your board.**
4. If you choose, you may work with one partner. Include the name of your partner on the Entry Form. Your partner must complete their own registration form.
5. Live animals, food, and liquids are not allowed in the gym.
6. Electrical access is very limited but is available on a first come, first serve basis. **Please let us know if you'll need electricity.**
7. Bring all projects and project boards to the school gym from 8:30 a.m.– 9:00 a.m. on Friday, April 20th. Please contact swykexpo@gmail.com if you need to bring your project in early. Projects should not be stored in the classroom.

8. Classes will visit the Expo during the school day on Friday, April 20th. Please do not include any valuables in your display during the school day.
9. Friends and family are invited to visit the Expo on Friday, April 20th from after school until 6 p.m. in the gym. **Students must have a parent or guardian with them when they visit the expo anytime between the end of the school day and 6 p.m.**
10. Please take home all projects at the end of the Expo on the evening of Friday, April 20th. If you will not be at the Expo the evening of April 20th, please make arrangements with a friend to bring your project home!

### **Project Ideas**

<i>Science</i>	<ul style="list-style-type: none"> <li>● <i>Conduct an experiment where something changes. Grades 3-6 can use the scientific method. Plants, weather, food science, ecology, etc...</i></li> <li>● <i>Tell all about an important scientific discovery.</i></li> <li>● <i>Find out about space travel, the solar system, or the human body.</i></li> </ul>
<i>Time Travel</i>	<ul style="list-style-type: none"> <li>● <i>Research an important person or event in history.</i></li> <li>● <i>Explain what your life would be like if you lived sometime in the past.</i></li> <li>● <i>Imagine and describe what life might be like in the future. Design a future city.</i></li> </ul>
<i>Technology</i>	<ul style="list-style-type: none"> <li>● <i>Make your own web page. Design your own invention, toy or game. Create a robot!</i></li> <li>● <i>Design a "Rube Goldberg" invention</i></li> <li>● <i>Explain how something works</i></li> </ul>
<i>Literature, Art or Music</i>	<ul style="list-style-type: none"> <li>● <i>Write your own book or collection of stories poetry</i></li> <li>● <i>Make a themed mobile or collage</i></li> <li>● <i>Write new words to a song or rap based on a theme</i></li> <li>● <i>Investigate a period of art or a particular artist</i></li> <li>● <i>Research the publishing process</i></li> </ul>
<i>Social Studies</i>	<ul style="list-style-type: none"> <li>● <i>Share discoveries about a certain culture or country</i></li> <li>● <i>Pretend you are a famous explorer and write about your adventure</i></li> <li>● <i>Investigate world cultures or religions</i></li> <li>● <i>Create your own maps of a geographic region</i></li> <li>● <i>Find a way to solve a world problem</i></li> <li>● <i>Compare different types of world governments</i></li> </ul>

### **Resources**

Here are a few places to get started. Check them out!

<http://www.sciencebuddies.org>

<http://www.science-project.com>

[www.ipl.org/div/projectguide](http://www.ipl.org/div/projectguide)  
<http://www.sciencefair-projects.org>

## **Presentation Format for Grades 3-6 Science Experiments**

Your display board needs to include:

- Project title and your name
- Question/Purpose
- Hypothesis
- Background/Research
- Materials
- Procedures
- Data Chart(s) and Graph(s)
- Discussion of Results
- Conclusion

### *What is the Scientific Method?*

Science is like doing a giant puzzle, with the handicap that you are missing an unknown number of pieces. Each new scientific fact is a piece of the puzzle. Each new piece can change the appearance of entire sections of the picture or fit where one did not expect it. When scientists have an answer to a question they have asked, they share their results with other scientists in papers, magazine articles, lectures, posters or displays at conventions. This way, new puzzle pieces can be checked out, and the fit tested.

The Scientific Method involves the following steps:

1. Observation – You observe something in the material world, using your senses or machines, which are basically extensions of those senses.
2. Question – You ask a question about what you observe.
3. Hypothesis – You predict the answer to your question.
4. Method – You figure out a way to test whether the hypothesis is correct. The outcome must be measurable (quantifiable).
5. Result – You do the experiment using the method you came up with and record the results. You repeat the experiment to confirm your results.
6. Conclusion – You state whether your prediction was confirmed or not and try to explain your results.

Adapted from [http://sciencefairproject.virtualave.net/scientific\\_method.htm](http://sciencefairproject.virtualave.net/scientific_method.htm)

