



South School Science Fair

May 1, 2024

4th and 5th Grade Science (STEM) Fair

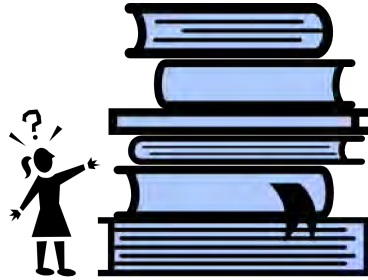
Date: May 1, 2024

Time: 2:00 – 3:15 (students) and 5:30–7:00 (families)

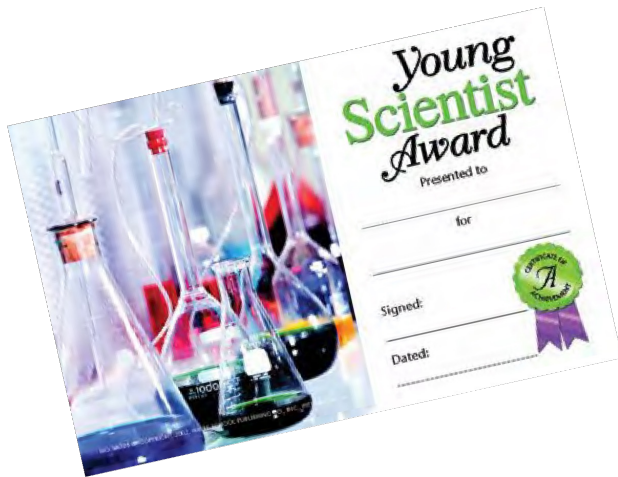
Place: South School Cafeteria

Registration deadline: March 31, 2024

Have Fun With Science and Engineering



It's FUN to discover! Science is all about asking questions - no one asks better questions than you do!



Each participant receives a
CERTIFICATE OF ACHIEVEMENT to
recognize your hard work!

LEARN SOMETHING NEW!

Pick at STEM topic, conduct your
own experiments, and learn
something that interests YOU!



**MOST OF ALL - YOU GET TO
HAVE FUN!**

What Can We Do?



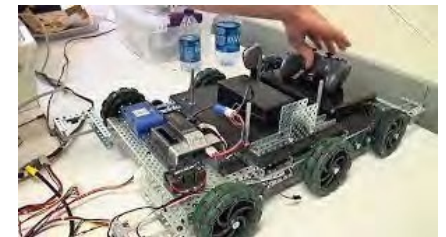
- The Science Fair is open to any STEM (science, technology, engineering and math) based project

- For any science based project:

- Ask a QUESTION - how, why, what...
- What is your PREDICTION or hypothesis?
- DESIGN your experiment(s)
- What DATA will you collect?

- For an engineering or technology project:

- Think of a PROBLEM or a challenge that you want to solve
- What IDEAS do you have to solve the problem?
- How will you DESIGN a prototype?
- How will you TEST it?
- How will you know if you are SUCCESSFUL?



Resources To Get You Started

- The Science Buddies Channel on YouTube is a great resource for teachers, kids and parents to get ideas for Science Fair Projects:
<https://www.youtube.com/user/ScienceBuddiesTV/videos>
- There's a large selection of Science Fair themed videos and Science Projects on YouTube Kids:: <https://www.youtubekids.com/search?q=science+fair+projects>
- You can find these slides the registration packet and other useful documents to get started on our website: <https://southpto.com/science-fair/>
- Here are some ideas of questions to ask yourself, be creative !!
 - Which paper towel brand is the strongest?
 - What is the best way to keep an ice cube from melting?
 - How much weight can the surface tension of water hold?
 - What is the effect of salt on the boiling temperature of water?
 - Which fruit or vegetable is producing the highest Voltage (Lemon Battery, Potato Battery...)?
 - How can I light up a model house (Lego or Cardboard) without using a battery pack or an outlet?

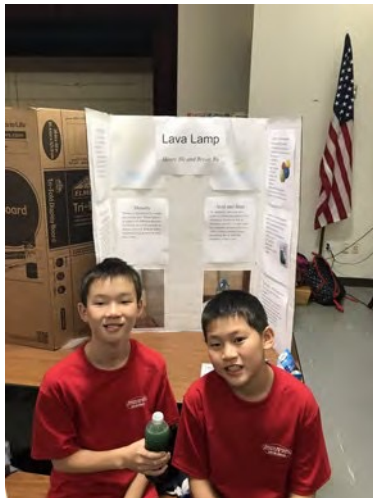
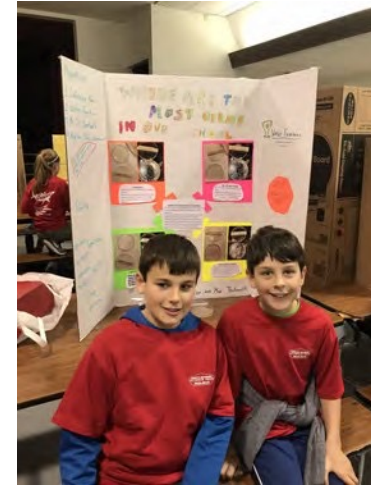
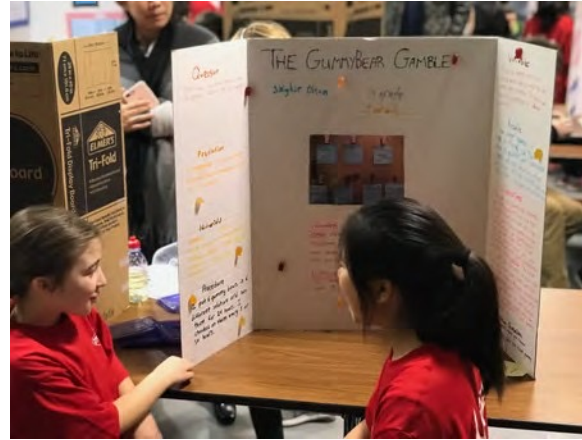


What Do You Need to Complete Your Project?

1. Ask a question or think of a problem
2. Make a prediction or think of a solution
3. Gather materials
4. Plan a procedure or test your solution
5. Gather data, record results, take photographs
6. Document your conclusions, you can use a tri-fold project board

<p>QUESTION</p> <p>What do I want to know?</p>	<p><u>PROJECT TITLE</u></p> <p>My name, grade, teacher</p> <p>Use this middle panel to show what happened in detail:</p> <p>Use words, drawings, photos, data tables, and graphs.</p> <p>Add anything that shows what you did and the results</p>	<p>VARIABLES</p> <p>What is changing? What is staying the same?</p>
<p>PREDICTION</p> <p>What do I think will happen and why?</p>		<p>GATHER DATA AND RECORD RESULTS</p> <p>What happened?</p>
<p>MATERIALS</p> <p>What materials did I use?</p>		<p>CONCLUSIONS</p> <p>Why did this happen?</p>
<p>PROCEDURE</p> <p>How did I go about answering my question</p>		<p>NEW QUESTIONS</p> <p>What do I want to know next?</p>

TRI-Fold Poster Board Examples



Few Guidelines to Keep Everyone Safe

- Be creative and have fun!
- Projects can be done individually, or in teams of 2 or 3 students
- Please no live animals, no hazardous chemicals, and no food!
- No electrical outlets will be available, so please bring your own battery pack if needed
- No erupting experiments that will cause a mess. All volcanoes **MUST** be contained in appropriate containers, making sure there are no spills
- Please no mento rocket experiments. They are way too messy!!!

Have Fun, Discover Something New – Be a South School Tiger Scientist!

Be a 'young scientist' – show off your discoveries!

Show off your discoveries on Wednesday, May 1st at the South School Science Fair

Link to register will be sent out to parents soon, please register by March 31st