



# South School Science Fair

May 3, 2023

# 4<sup>th</sup> and 5<sup>th</sup> Grade Science (STEM) Fair

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Date: May 3, 2023

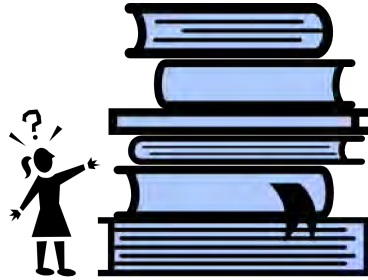
Time: 1:30 - 2:30 (students) and 5:30-7:00 (families)

Place: South School Cafeteria

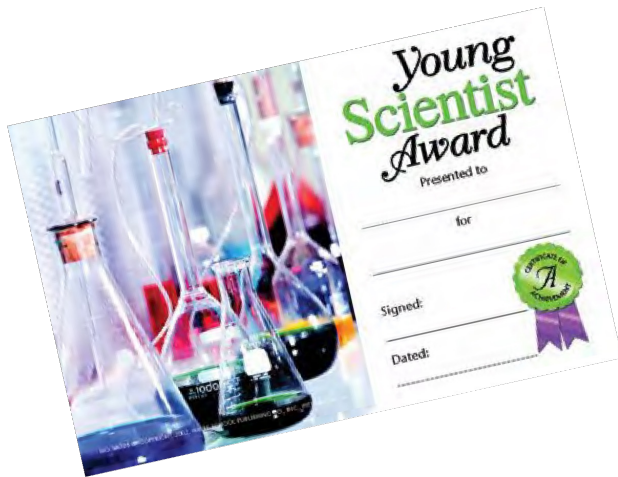
Registration deadline: March 31, 2023

# Have Fun With Science and Engineering

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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!

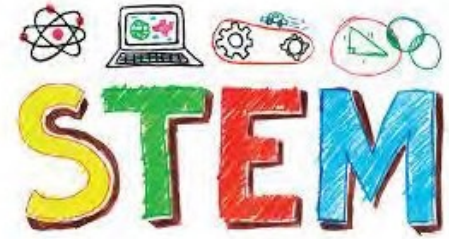
LEARN SOMETHING NEW!

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?



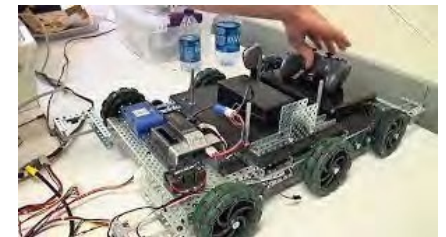
- The Science Fair is open to any STEM (science, technology, engineering and math) based project

- 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

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- 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?

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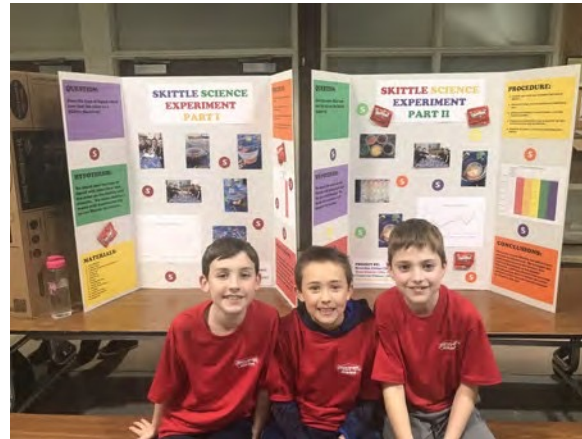
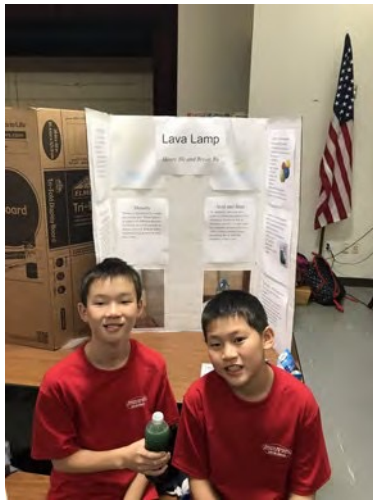
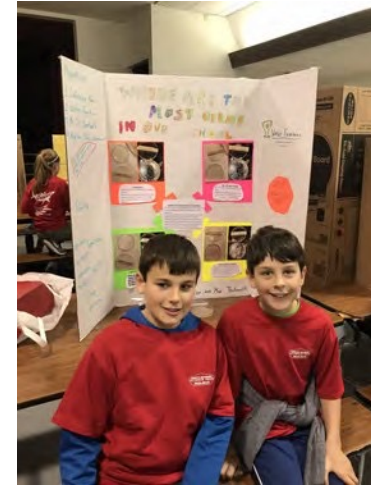
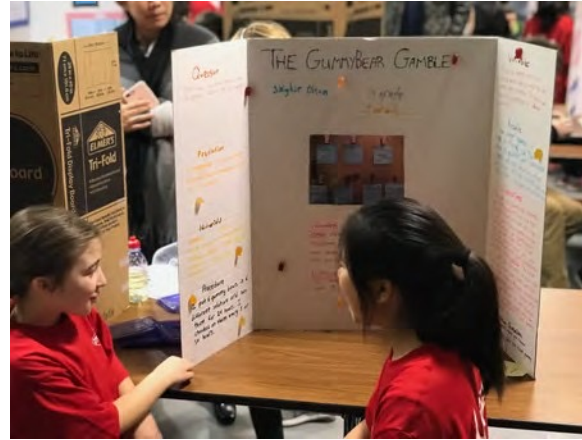
1. Ask a question or think of a problem
2. Make a prediction or think of a solution
3. Gather materials
4. Plan a procedure or test your solution
5. Gather data, record results, take photographs
6. Document your conclusions, you can use a tri-fold project board

<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

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# Few Guidelines to Keep Everyone Safe

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- 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!

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

Show off your discoveries on Wednesday, May 3<sup>rd</sup> at the South School Science Fair

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