



Mother Seton School STEM Fair 2025

Wednesday, November 19, 2025

A celebration of student achievement in the areas of science, technology, engineering, and mathematics

Science, technology, engineering, and mathematics are basic skills expected by employers. As 21st-century citizens, our students will have to make some of the toughest decisions of any generation, based on their understanding of emerging science and technology. STEM fairs involve students in the practice of science and engineering, requiring them to apply those skills to a topic of interest to them. *Doing* science is the key to understanding science.

Our STEM Fair will be held on Wednesday, November 19. Students in grades 6-8 are required to submit a project.

Important Dates

Wednesday, September 24—Topic forms signed by a parent are due

Wednesday, October 22—Log book check

Monday November 17—Projects may be set up in the gym (after school, 2:45-3:30pm)

Tuesday, November 18—Projects may be set up in the gym before school (8:00-8:15) or after school (2:45-3:30)

Wednesday November 19—Judging from 8:15-2:45 -projects must be set up before 8:15

Wednesday, November 19—**The STEM Fair is open to the public from 6:30-7:30**

Thursday, November 20—Projects can go home after school

ALL PROJECTS MUST GO HOME BY FRIDAY, NOVEMBER 21

Students may choose to conduct an experiment to demonstrate their understanding of the **Scientific Method**:

1. **Question:** start with a topic that interests and excites you
2. **Hypothesis:** consider what you know about the topic to state what you think will happen *and why*
3. **Procedure:** list all the steps necessary to perform the experiment (like the steps of a recipe)
4. **Observations:** this is the data and observations you collect during the course of the experiment. Keep a log book that journals your entire experience. Start with a dated entry of the project idea and continue to date each entry as you add details about your experiment.

5. **Conclusion:** the end results. It's perfectly fine if your conclusion is not what you thought it would be—that's the fun of doing experiments! Your conclusion should include the results, anything that might have affected your results and how to improve this experiment. Also include a *new* idea to test using what you learned in this experiment.

All experiments must be displayed on a **tri-fold board** and show all the above steps:

- title of project (in the form of a question)
- hypothesis
- procedure
- observations / data
- conclusion
- materials you used to conduct your experiment
- You can also use pictures, charts, graphs, diagrams or models to explain your experiment.

Alternatively, students may prefer to collect and analyze data or create an invention. These students may choose to work in small groups or individually. Work sessions during the school day have been scheduled to allow these students to work on their projects.

All judging and grading rubrics can be found on Mrs. Kuykendall's Google Classroom page. (Link on website) Please use the rubric as a guide!

All projects must have a log book for the judging. Your log book should be a detailed account of everything you did to complete this project.

If you use books or websites or any other resource to help you with your experiment you must include them in your log book and list them on the display.

Each student will present their project to the judges. Be prepared to describe your project to the judges. Work out how you will answer questions such as: Why does this topic interest you? What could you have done differently? What might have influenced your results? What could you do as a follow-up experiment? Practice at home so that you feel more confident. This is your chance to talk about all your hard work!

STEM Fair Topic

Due Wednesday, September 24, 2025

Student Name _____

Grade _____

Project title _____

Brief explanation:

Parent signature _____