

Science Fair 2024

**Gillette Road Middle
School**

Wednesday March 7th 2024.

**Student/Parent Packet
& Registration Form**



Hello,

I am pleased that you have decided to participate in this year's Gillette Road Science Fair! Where your imagination and creativity leads to learning! AND IT'S FUN! Please read through this entire packet with an adult to be sure that everyone is clear on what needs to be done.

All students are also encouraged to sign up for the CNY Science and Engineering Fair that is held at the SRC arena on the OCC campus! That is held in late March. Check the MOST website for more information.

Thank you
Mr. Mancabelli
Gillette Road Science Department Chair

Student/Parent Packet

Table of Contents

1. Important Fair Dates
2. Suggestions for Making an Outstanding Project
3. Making Your Display
4. Outline for Your Report
5. Judging Rubric
6. Registration Form

Important Dates

Monday Jan. 12, 2024

Registration booklets are available through your science teacher **OR ONLINE** at Gillette's homepage. The form can be found on the left menu, it is labeled "Science Fair Packet". **Form must be printed off and the hard copy handed in.**

Tuesday March 5, 2024

Registration deadline – registration forms must given to your science teacher by this date. ***There will NO exceptions to this deadline. An extra week as already been added to the timeline.**

Thurs. March 7, 2024

Projects need to be brought to school and set up in the gymnasium during the school day under the direction of the student's science teacher. Your student's teacher will let your child know what time they can set up.

Continue onto next page

Thurs. March 7, 2024

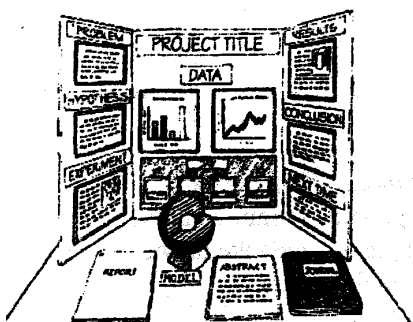
Science Fair - Schedule

| | |
|-----------------|---------------------------------------|
| Judging | 3:00-4:00 PM |
| Public Viewing | 4:00-4:20 P.M. (For family members) |
| Awards Ceremony | 4:20-4:35 P.M. *in Auditorium |

***These time are approximate but I do try to stick to this schedule as best I can.

Your science teachers will be given a list showing where you can set up your display.

IMPORTANT - You may work with any Gillette Road student(s) on the science fair experiment but please remember some experiments may take a few days or weeks. You and your partner (s) must be able to find a way to work together. Share the workload. Divide responsibilities. Keep track of each other's progress. Be creative and patient. If, for any reason, you simply cannot finish your project with the partner you started with, let your science teacher know as soon as possible! We will need to make changes.



Keys to a great science fair project

To design an experiment for your science fair project you must first ask a scientific question, and then design a test to find the answer. Here are the basic steps to a great science fair project.

1. **Choose a topic:** Ask a scientific question. This is called your “observation.” Did you ever notice something and wonder why it happens? Do you know how something works? Find a problem and ask a scientific question you are able to test. Be sure to keep several things in mind:
 - Is it something you can easily study?
 - Will the project cost too much money?
 - Can you get the project ready by the science fair date?
 - What area of science interests you?

If you are having trouble finding a topic or answering these questions, ask a parent or your science teacher for help.

2. **Give your project a title:** Choose a title that describes the effect or thing you are investigating. Your title should summarize what the investigation will solve or prove.
3. **Make a hypothesis:** (*Predict the answer to your question*) Your hypothesis should be in the form of a statement, not a question. For example, if your question is “What hull shape makes

a boat go faster?” Your hypothesis might be, “If the hull of a boat is rounded, then it will go faster than a hull that is flat.”

4. **Design your experiment:** Think of a way to test your hypothesis.
 - Obtain materials and equipment you will need to perform your experiment.
 - Create a step-by-step set of procedures to explain how you performed your experiment.
 - Record and list these in your written report.
5. **Do the research:** (This is information gathering) Use books and magazines or ask professionals in the field. Libraries, museums, planetariums, zoos, colleges, hospitals, and science laboratories are also great resources. Keep track of your research and include it in your written report.
6. **Record results:** What happened? Perform your experiment and record your results.
7. **Conclusion:** Try to answer your original question based on your results. Did you prove your hypothesis? Include your conclusion in your report.
 - Do the results of your experiment tell you your hypothesis were right or wrong?
 - Is it possible to repeat the experiment? How might you change your experiment next time?
 - Did the experiment make you think of new questions that need answers?
 - How can the information you found be useful to other people?

Please see the outline in this packet for your report.

Report Outline

Use this form to keep track of your experiment, data and results. You keep this one.

1. Observation (scientific question)

2. Title of your Project

3. Hypothesis (your prediction)

4. Experiment

Materials

Procedures

| | |
|-------|-------|
| <hr/> | <hr/> |
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| <hr/> | <hr/> |

-
-
5. Research (how did you obtain your information?) _____
-
-
-
-
6. Results (what happened?) _____
-
-
-
-
7. Conclusions _____
-

Making Your Display

The purpose of your display is to give a summary of your experiment. This is what people will notice. Your display should be attractive and invite people to inquire about your experiment. It is helpful if your display is easy to transport, set up and take down. You can also use visual effects, such as cutouts or three-dimensional designs.

Display Board: Should include the following items:

1. A descriptive title of ten words or less. A clever title grabs the audience's attention. Think of something exciting to describe your experiment. The lettering must be easy to read.
2. The purpose of your experiment.
3. Your hypothesis.
4. A short summary of your procedures.
5. A short summary of your results.
6. A short summary of your conclusion or observations.

Please be aware of the following:

- Projects should **follow the scientific method**
- All projects **must** be approved by your science teacher
- Students **will not** have access to electrical outlets for their displays at school
- Students **will not** be able to include hazardous items in their displays, such as: fire, dangerous chemicals, volatile substances, animals or pathogens.

Hint: If you are in doubt, leave it out. If you have any questions or concerns, please contact Mr. Mancabelli or Mrs. Jones/ Mr. Akley at 218-3000.

Resources on the internet:

DiscoverySchool Science Fair Central: <http://www.school.discovery.com/sciencefaircentral>

The Thinking Fountain: <http://www.sci.mus.mn.us/sln/tf/nav/thinkingfountain.html>

Science Fairs Homepage: <http://www.stemnet.nf.ca/sciencefairs/>

Experimental Science Projects: <http://www.isd77.k12.mn.us/resources/cf/sciprojintro.html>

The Internet Public Library: <http://ipl.si.umich.edu/div/kidspace/projectguide/>

The Ultimate Science Fair Resource: <http://www.scifair.org/>

Science Fair Projects: <http://www.all-science-fair-projects.com>

Judging Rubric Gillette Road Middle School Science Fair

| Criteria | 3 Points | 2 Points | 1 Points | 0 Points |
|------------------|---|--|--|---------------------------------|
| Problem/Question | Original, relevant, creative question | Relevant question | Unoriginal question or problem not stated as a question | No question |
| Hypothesis | Clearly stated and correlates with the problem | Hypothesis stated with an association to the problem | No hypothesis or does not correlate with the problem | No hypothesis |
| Research | Multiple sources used and cited in a bibliography. Research is age appropriate and meaningful. Terms are clearly defined | Research is present but not relevant or age appropriate. Some terms are not adequately defined or multiple sources not used or referenced. | Little or no background information given | No background information given |
| Procedure | Procedure completely described using a specific sequence of steps, insuring it could be replicated | Procedure described with likelihood of it being replicated | Procedure generally described but not replicable | No procedures |
| Data | A sufficient amount of data collected and recorded with appropriate units. Graphs, if used, are appropriate scaled and labeled. | Data collected but insufficient or inaccurate and recorded without units. Graphs, if used, have an appropriate form of missing labels. | Data is inaccurate, incomplete, recorded haphazardly or missing. Graphs, if used, have several inaccuracies. | No data |
| Conclusion | Logical conclusion, based on collected data. Accepts or rejects the hypothesis. | Conclusion is too general and does not address the hypothesis | Conclusion is not based on data collected. | No conclusion |
| Presentation | Display is appealing, organized and neat. Contains charts, tables, pictures, etc. that are labeled | Display is neat and attractive but has limited tables, charts, graphs, pictures, etc. | Display outlines the scientific method but is lacking other visuals, or no display included | No display included |

Gold Medal = 18-21 points

Silver Medal = 14-17 points

Participation Award = 1-13 points

Student Registration Form
Gillette Road Middle School Science Fair
March 7, 2024

Student name _____ Homeroom _____

Student name _____ Homeroom _____

Project Title _____

Project Description _____

*I have read all of the registration information and understand the project parameters and expectations for participation.

Student Signature _____ Date _____

Parent Signature _____ Date _____

Student Signature _____ Date _____

Parent Signature _____ Date _____

Science Teacher's Signature _____

Registration form due to your science teacher absolutely no later than
Tuesday March 6th 2024 @ 3pm.

You can work on your Science Fair experiment/Project with any student that attends Gillette. You can put all the students names on 1 (one) form and hand that 1 form to any of your science teachers. Even if you are in a different grade. This makes keeping track of the projects easier.

IMPORTANT SCIENCE FAIR INFORMATION!

**REGISTRATION FORMS AVAILABLE ON JANUARY 12,
2024!**

**FROM YOUR SCIENCE TEACHER OR LOOK FOR IT ON
GILLETTE'S HOME PAGE.**

REGISTRATION DEADLINE IS: TUESDAY MARCH 5 2024

SCIENCE FAIR IS THURSDAY MARCH 7, 2024

**IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT
MR. MANCABELLI OR YOUR SCIENCE TEACHER!!!**

Tear this page off and display it somewhere at home.