

**GILLETTE ROAD MIDDLE SCHOOL
2022-2023
SCIENCE FAIR**

WEDNESDAY MARCH 8TH, 2023.

**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.

IMPORTANT INFORMATION

This year's Science Fair is going to take place in the "middle" gym or Dining Room A. You will be assigned a spot a day or 2 before the fair. Your science teacher will have that for you.

1. This is NOT a virtual event. You will need to have a clear presentation set up for a judge to observe. Posters, photos, slide shows, graphs, all data must be included in your presentation.
2. YOU MUST BE PERFORMING A VALID EXPERIMENT. NOT JUST A DEMONSTRATION. PLEASE READ THE SCORING RUBRIC SO YOU ARE AWARE OF WHAT THE JUDGES WILL BE OBSERVING!
3. 2 judges will be assigned to observe you and your partner's project. Those judges WILL ask questions – Be prepared!
4. Your presentation needs to show YOU and any partner(s) actually doing the experiment. You can make a video. A power point. A slide show. That includes pics or video of you doing the experiment.
5. The presentation MUST include a final poster that shows all criteria shown in the scoring rubric on page 7. Be creative!!!! As long as the poster is there!
6. If you decide to include a powerpoint presentation, please be sure your device is charged. There is no electricity available for anything. Sorry.
7. Good luck!!!! If you have any questions or are stuck for an experiment, see your science teacher for ideas. Or stop down and see Mr. Mancabelli.

Thank you,

**Mr. Robert Mancabelli
Science Department Chair
Gillette Road Middle School**

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

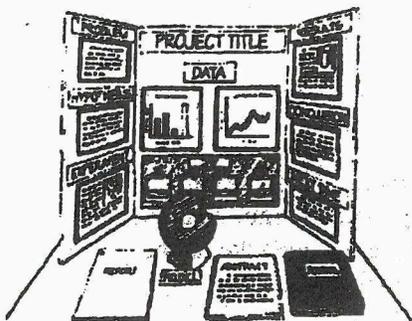
Tuesday March 7, 2023

Deadline to get the registration form to your science teacher. That is not an option, it is a necessity.

Wednesday March 8, 2023

Your presentation must be brought into school that morning. Your science teacher will tell you a time for you to set up your presentation.

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

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 Mr. Cordone 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>

Gillette Road Middle School Science Fair Scoring Rubric

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	Presentation is appealing, organized and neat. Contains charts, tables, pictures, etc. that are labeled	Presentation is neat and attractive but has limited tables, charts, graphs, pictures, etc.	Presentation 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

Registration Form - to be turned into your science teacher.

Name(s) of student or students presenting:

1. _____

2. _____

3. _____

Title of your presentation/experiment

What is your hypothesis? What question did your experiment help you answer?

Please be sure to have your parent/guardian AND your science teacher sign below. This shows that you and they agree to the guidelines found in this form. **THIS FORM MUST BE TURNED IN TO YOUR SCIENCE TEACHER BY TUESDAY MARCH 7TH. BE SURE IT IS SIGNED!!!!!!!!!!**

Parent signature _____

Science teacher _____