Science Fair Project Write-Up

All of Saint Ann School's students in grades 6-8 (and 5th grade optional) will be participating in the 2025 Science Fair! This will count as a Test Grade toward your 3rd Trimester. Given current national trends in science education, this generation of science students are expected to do more than merely observe and explain scientific principles and phenomena. Rather, this generation is expected to understand the fundamental tenets of the scientific method as part of the creative process. Demonstrations will not be permitted, as they merely allow us to observe and explain a scientific principle or phenomena, without actually applying the Scientific Method. Instead, students need to create an investigation and experiment to answer a testable question.

January 3, 2025	Science Fair Packets are given to students.
January 31, 2025 (or anytime before)	The Investigation Design Diagram must be filled out and submitted to explain your IDEA/PLAN for the Science Fair. This counts as a Quiz Grade. Points will be lost if turned in late. (Grades 6-8).
February 28, 2025 (or anytime before)	Submit a typed up Lab Report for the Saint Ann Science Fair so that Mr Azrolan can review and return for revision. This may be submitted anytime before this date. This counts as a Quiz Grade. Do not begin the Google Slide Presentation until you receive feedback and a grade for the lab report.
March 25, 2025	Submit finished Google Slide for the Saint Ann Science Fair. The Lab Report AND Google Slide presentation together count as a Test Grade. Points will be deducted if this is late.
March 25-28, 2025	Saint Ann Science Fair Presentations during science classes

First, come up with a topic! What are you interested in? What do you want to learn more about? Make sure to think of a topic that you can realistically carry out an experiment for. The purpose of this grade is for you to use your creativity to carry out a scientific experiment, collect data, analyze data, and communicate your results. It's okay if your topic is "ordinary." However, projects that will win a school award for the Science Fair should be a topic that either hasn't been done before and/or a project that shows a thorough understanding of experimentation and the science behind the experiment. If you're stuck on ordinary project ideas here are some suggestions:

Physical Science

- *The effect of type of paper on paper airplane flight*
- *The effect of different light on plant growth*
- *The effect of light on the growth of plants*
- *The effect of different liquids on carbon dioxide production*
- *The effect of a liquid's density on whether a block will float*
- *The effect of adding salt on an object's buoyancy*

Biology

- *The effect of different amounts of sugar on carbon dioxide produced from baking yeast*
- *The effect of different liquids on plant growth*
- *The effect of sunlight on germination*
- *The effect of soil on plant growth*
- *The effect of parts of the body on bacteria growth*
- *The effect of different yogurts on bacterial growth*

Steps for Success:

Step 1: Fill Out Your Investigation Design Diagram and submit to Mr. Azrolan

Step 2: Experiment

Step 3: Type Up Your Lab Report

Step 4: Submit Lab Report to Mr.. Azrolan
Step 5: After receiving back your Lab Report, create a Google Slide presentation
Step 6: Present Your Experiment at the Science Fair during Science Fair Week

Your Lab Report must include the following sections, and will be graded for a Test Grade. This will be graded according to the Science Fair Rubric.

A. TITLE
B. PURPOSE
C. TESTABLE QUESTION
D. HYPOTHESIS
E. MATERIALS
F. PROCEDURE
G. DATA
H: ANALYSIS
I: CONCLUSION

The following sections are included on the Science Fair Rubric, but only apply for the Science Fair Presentations, and not toward your grade. These are the categories that separate projects that earn an A grade from projects that earn 1st, 2nd, or 3rd place in the Saint Ann School Science Fair:

J: S.T.E.M. CONTENT (will not count towards your Test Grade. This is solely for judging the Science Fair. How does your experiment help advance our knowledge in Science, Technology, Engineering, or Math fields?)

K: PRESENTATION (to be graded by completed Google Slide)

L. INGENUITY (will not count towards your Test Grade. This is solely for judging the Science Fair)

Suggestions for winning awards at the Saint Ann Science Fair :

- Study something that affects your local community or ecosystem.
- Take a regular science fair experiment but find a way to tweak it such that it can teach you something new that you didn't know before.
- Study something that advances our knowledge in S.T.E.M. fields.
- Compare the effectiveness of different household products or equipment
- And more!