

DULUTH HIGH SCHOOL SCIENCE FAIR

I. Science Fair Rationale:

Science Fair allows the science student a chance to do "real science". Coursework provides science facts and formulas, but conducting a scientific investigation gives a student the practice in time management and the use of variables, research, observation and analytical skills that a student needs if interested in a career in a demanding field.

II. General Information:

In this course, you will have to do the following during 1st Semester.

1. Develop your own **original idea** for a scientific investigation (you must experimentally solve a problem using real data)
2. Conduct research that helps you develop a hypothesis
3. Plan experimental procedures using appropriate scientific methods
4. Gather necessary materials and complete any necessary forms in a timely manner.
5. Perform the experiment, **taking photographs** and collecting data
6. Organize and display your data
8. Analyze your data and draw conclusions
9. Compile a formal report summarizing your work.

All the while, you must keep an up-to-date logbook; turn in required papers and forms. By **Dec. 3** submit a formal research paper summarizing your science fair project and research.

The following Science Fair-related work is OPTIONAL:

If you are asked to enter Duluth High's Science Fair (December 9th), the benefits to you would include:

- **1 point** added to your final **fall** semester average if you enter the school science fair
- **1 point** to your final **spring** semester average for advancing to the district fair. **Note:** you must actually GO to the fair; not just be asked to go.
- **1 point** (additional) to your final **spring** semester average for advancing to the state fair.

III. Calendar

	<u>Due</u>	<u>Points</u>
Parent Letter	Aug 23	5
Pre-Planning/Topic Worksheet with Annotated Bibliography	Sept 17	35
Experimental Plan/Outline Worksheet	Oct 1	35
Logbook Check #1	Oct 15	20
Logbook Check #2 (Final Data with notarizations, and final pictures)	Nov 8	20
Final Research Paper	Dec 3	110

IV. In This Packet –

Page:

- 1 – Science Fair Project Information (this sheet)
- 2 – Parent Letter
- 3 – Pre-Planning/Topic Sheet
- 4 – Experimental Outline Sheet
- 5 – Logbook Check #1 Sheet
- 6 – Logbook Check #2 **and** How to Write a Research Paper
- 7 –Final Project Grading Sheet