

# Science Fair Project

Students will investigate a science topic and create an experiment to test a hypothesis. The purpose of the project is to provide an opportunity for the student to develop their skills in using the scientific method. Many of the statewide and national science standards are met in this one project. This project will take takes an entire semester to complete

**Students will be required to do much of this project on their own and on their own time outside of school.** Students will choose their topic, develop a hypothesis, decide how to test their hypothesis, analyze their results, and present their results orally to their peers. Students will need to look to outside resources (University library, public library, etc.) to conduct most of their background research. For the most part, **students will need to provide their own materials** to conduct their experiments. Students will take home forms periodically for parent signature so parents are aware of our progress throughout the project.

The role of the teacher is merely that of a guide. Students will learn the “how to’s” in class, (how to research a topic, how to develop a hypothesis, how to analyze data, how to write a scientific research paper, etc.) but students are expected to do the work themselves. Teachers will guide them through each step of the process with feedback on their ideas and products. It is through trial and error that the students will enhance their scientific method skills. Here is the tentative timeline for this project.

- Week 1 ( ) Project Overview
- Week 1 ( ) 3 Topic ideas due
- Week 1 ( ) Topic approved by teacher
- Week 2 ( ) Start background research
- Week 4 ( ) Background Research notes due
- Week 4 ( ) Begin to develop hypothesis
- Week 5 ( ) Hypothesis due
- Week 5 ( ) Begin planning experiment
- Week 6 ( ) Background Research Oral Exam
- Week 6 ( ) Materials & Methods DRAFT due
- Week 8 ( ) Materials & Methods FINAL due
- Week 9 ( ) Begin experiment
- Week 12 ( ) Data due / Begin data analysis
- Week 13 ( ) Begin rough draft in class
- Week 15 ( ) ROUGH DRAFT due
- Week 16 ( ) Begin final draft
- Week 16 ( ) Begin display board plan
- Week 17 ( ) Display board plan due
- Week 17 ( ) FINAL REPORT due
- Week 20 ( ) Display Boards due
- Week 20-22( ) Højike

-----

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

I have reviewed the requirements of the Science Fair Project and I will put my best effort into successfully completing this project.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

I have reviewed the requirements of the Science Fair Project and I will assist my child in successfully completing this project.

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date