

Simple Machines and Scientific Method Project

During this quarter, students will be required to work in groups to create a simple machine and test it out. Students will need to research ideas for a simple machine which they would like to construct and then test using the scientific method. **This is an in-class project and any work not completed in class will have to be completed by the groups at home.** Students will be working on this project for the next two weeks in Science class as well as in STEAM lab. There will be daily and test grade(s) associated with this project.

During this project, students will be required to do the following:

- Researching types of simple machines
- Collaborating on design and construct model(s) of the simple machine
- Using the scientific method to test the model by changing a variable (i.e. Type of material used to create model)
- Creating a display board about their model and scientific method findings, along with their model to display for Science Night (January 23rd)
- Creating and presenting their simple machine using the scientific method to the class and audience.

Timeline/Due Dates:

Tuesday 1/7 & Wednesday 1/8- Assign groups, students begin to brainstorm ideas for simple machine and begin research on ideas and construction.

Friday 1/10- Simple Machine project idea forms due (*beginning of class*) & Supply list due (*end of class*).

Monday 1/13- Simple Machine Scientific Method for variable change Form due (parts of the scientific method written out).

Tuesday 1/14- Simple Machine Construction form due.

Friday 1/17- Constructed models due.

Wednesday 1/22-Display boards due.

Thursday 1/23- Full Project Due to be displayed for Science Night, begin working on presentations.

Monday 1/27-Presentations.