

Semester I Final Project

- Each group of 2-3 people will present a demonstration of an assigned science topic
- Each presentation should be **6 minutes** and include the following:
 1. A brief **Introduction** to the topic
 - What does the class need to know in order to understand your demo?
 2. A **Claim** about what the relationship is
 - Your Claim will take one of the two following forms:
 - “The effect of (independent variable) on (dependent variable) in (subject) at (conditions) is (result).”
 - “The relationship of (independent variable) to (dependent variable) in (subject) at (conditions) is (results).”
 - You’ll need to figure out which of your variables is the independent and which is dependent
 - The subject is whatever you’re using for your demo
 - The conditions are your constants. What quantities are important to hold constant while you change your independent variable?
 3. **Evidence** to back up your Claim
 - The Evidence will be your actual demonstration. *Show* the class *how* your claim is true.
 - Make sure to explain what you’re doing and why you’re doing it.
 - Draw the classes attention to what’s important about your demo.
 - *Your demonstration must only include supplies you can find at home, in the classroom, or at a craft store. Keep it simple!*
 4. **Reasoning** for your evidence
 - *Explain* to the class *why* your independent and dependent variables have the relationship they do. This will probably take a little research on your part.

Topics

1. Gravity
2. Light/Optics
3. Buoyancy
4. Balance
5. Sound
6. Electricity
7. Magnetism
8. Waves
9. Pressure