

Final Project – Brainstorming

Physical Science and Technology

Step 1: *Brainstorm (due Thursday, May 27)*

Come up with 5 unique ideas for a device you could make in this class. Work individually. Each device must a) allow you to make measurements using either the force or motion detectors and b) allow you to make quick, repeatable changes that will allow you to test different “settings” for your device.

Idea #1: _____

Idea #2: _____

Idea #3: _____

Idea #4: _____

Idea #5: _____

Step 2: *Pick a partner (due Thursday, May 27)*

You may choose one other person in the class to work with, or you may request to work individually. In either case, you **MUST** get an instructor to approve your choice before you go on to step 3.

My partner is: _____

Approved by: _____

- or -

I want to work individually

Approved by: _____

Step 3: *Pick one of your ideas to use as your final project (due Thursday, May 27)*

The invention I want to make is: _____

Step 4: *Ask a question that your device can answer (due Thursday May 27)*

I am investigating the relationship between: _____ (choose something that the force or motion sensor can measure) and _____ (describe the “setting” that adjusting your device will change).

Step 5: *Thumbnail sketches (due Thursday, May 27)*

Draw 4 thumbnail sketches for your invention. These sketches can be overall drawings, schematics, diagrams, or plans. If you are working with a partner, each of you needs to have 4 unique thumbnail sketches (8 total thumbnails). If you need additional space, use a separate sheet of paper.

Step 6: *Final drawing (Due Friday, May 28)*

Using either a clean, unlined sheet of paper with rulers and circle templates or A+CAD, make a detailed drawing of your device's design. If you are working with a partner, you only need to turn in one drawing – but it needs to be detailed and include rough measurements.

Step 7: *Materials list (Due Friday, May 28)*

List the materials you expect to use for your project and you would like us to provide. Be sure to include measurements so we know how much to provide.

[illegible]