

Name(s):

Topic/Title:

	Score	Notes:
Mockup (25%) Due 2/22		Build a quick mockup of your testing apparatus. Use materials that are affordable and easy to work with (scraps are OK) but keep in mind the properties of the materials you plan to use for the final prototype. You may choose to test one aspect of your device to resolve any issues of complexity or you may build a small-scale version of the full apparatus. Keep in mind that you may need several small studies before moving into the prototyping phase. In addition to the physical mockup, you will also need: <ul style="list-style-type: none"> •A diagram of your device •Outline of your testing methods •Schedule for testing •Product list and budget
Prototype	Score	Notes:
Background (5%)		situate your work within the greater field. You'll need some basic background on the physical principles of your material (maybe from a physics textbook or similar, and then a number of sources where people are doing similar work/experiments, or at least asking similar questions. This will be a condensed (and graphic-dominated) presentation of your literature review
Updated research question, hypothesis (5%)		What are you asking? (be specific) What results do you think you'll get? This should be a development (improvement) from your previous presentation.
Construction/Fabrication Strategy (10%)		•You may not have gotten to this yet, but your proposal should include a plan to use some of these tools
Electronic controls strategy (10%)		In addition to the physical apparatus, you will also need to develop the controls strategy and your electronics design. <ul style="list-style-type: none"> •how are you going to use your Arduino? •how are you planning to measure your data?
Methods (10%)		You will need to develop your methods (testing protocol) to ensure that your apparatus is properly designed.
Preliminary Data (10%)		prove that your device and testing methods are functioning properly
	Score	Notes:
presentation/narrative (15%)		each group will have 15 minutes to present. Make sure you are organized and well rehearsed.
Website Upload (due March 29) (10%)		•document the whole process <ul style="list-style-type: none"> •include your mockup on your proposal page, but any detail photos/text about your construction process should go on your construction page

Final comments:

Final Score:

0.0%