

# Developing a Design Proposal

**The Draft Design Proposal:** Your design proposal must be submitted electronically and needs to include the following components (represent each component with its own heading):

- Title Page:
  - Your name, Team name, Picture of Design
- Purpose of the Device:
  - Problem statement (what does the device solve?), background information related to the problem and product.
- Overview of Procedure:
  - Determine the steps you would need to complete in order to construct your device..
- Meeting Criteria:
  - Determine the simple machines and core technologies you are going to use in your device. Describe how you will use them in your design.
- Summary:
  - One-paragraph summary of information included in the proposal.

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## WHAT YOU NEED TO COMPLETE:

### 1. Rough Draft Design Proposal - DUE

- a. You must include all areas of the design proposal listed above
- b. You need to include sketches of your device (Paper & SketchUp)
- c. You need to conduct research and use this in your proposal
  - i. You need to research similar products
    1. Things like how they are made, cost of materials, how they improve their designs, etc.
- d. This rough draft needs to be submitted via a Google Doc

The following rubric will be used to evaluate your work:

Category	Below Average	Average	Excellent
<b>Title Page</b>	The title page does not include all of the necessary information.	The title page includes all of the necessary information. Sketches are detailed and describe the product in detail.	The title page includes all of the necessary information. The product title is creative while describing the product. Sketches are detailed and describe the product in detail.
<b>Purpose of Device</b>	The purpose of the device is not clearly stated or does not include all the necessary information.	The purpose of the device includes all necessary background information and the problem the invention is trying to solve.	The purpose of the device includes significant background information related to the invention, and the problem statement is clear with a defined purpose.
<b>Overview of Procedure</b>	The overview of procedure reflects some of the steps needed to construct the device	The overview of procedure reflects the steps a company would use to prepare a product for the marketplace.	The overview of procedure accurately reflects the steps steps needed to construct the device
<b>Meeting Criteria</b>	The device incorporates 1 or less of the required criteria.	The device clearly and effectively incorporates 3 of the required criteria.	The device clearly incorporates all of the required criteria and constraints.
<b>Summary</b>	The summary does not describe the design proposal or is missing key information in the design proposal.	The summary includes all key information in the design proposal, is well structured, and clearly summarizes the design proposal.	The summary includes all key information in the design proposal, is well structured, and clearly summarizes the design proposal.