

1.5.5. Conceptual Design 3: Initial Prototype

Group: _____

Date: _____

Part 0: Evaluate

Log into the EDPL and go to the “Evaluate” tab. With your group, evaluate your three uploaded conceptual designs. Choose if each conceptual design is likely/unlikely to fulfill a requirement and give a reflection (or explanation) on your choice.

Part 1: Sketch

Review your prior materials and designs and choose which design best fulfills the problem requirements. Working with your group, you will sketch an initial prototype from this design, identify materials needed to complete the prototype, and create a plan for gathering the materials needed to build your design.

Sketch your initial prototype in detail with dimensions (Width x Length x Height). Label each portion of your system.

Sketch your zoomed in details if needed here:	
Subsystem 1:	Subsystem 2:

Part 2: Plan your materials/prototyping methods for each portion of your system.
 Prototyping Materials should be inexpensive and readily available materials (paper, cardboard, old fabric samples, tape, glue, brads, etc. They will need to bring in these materials to the next class.

Component	Material / Prototyping Methods	Person Responsible?

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Part 3: Check: Did your group integrate what you have learned about existing solutions, inspiration from biological systems, and heat transfer to this prototype?