

Instructions for Making a Layout Drawing For Your Inflatable Structure Using SolidWorks

1. Open the provided file called Inflatable Structures Plastic.SLDPRT. This is a Solidworks part that models the piece of plastic you were given.
2. Save this file with a new name to your H-drive. Be sure to save it as a part file (with a SLDPRT extension).
3. Based upon what you found when you unfolded your paper model to a flat shape, duplicate these shapes by extrude cutting material from the model so that your model looks like your flattened paper model. To do this, the following might be helpful:
 - a) Make an initial sketch of all of your desired shapes. **YOU WILL NOT USE THIS SKETCH TO CUT AWAY MATERIAL. THIS WILL BE FOR REFERENCE ONLY.**
 - b) Make additional, simpler sketches, and Extrude Cuts to remove the material you do not need to make your model.
4. Save your file.
5. Create a drawing of your final part following these guidelines:
 - a) Provide **ONLY** a top view (showing all the shapes you need to cut from your plastic).
 - b) Scale your drawing as large as possible so that it fills your paper.
 - c) Include dimensions for everything so that you will know what size to make the lines you will cut from your plastic.
6. Save this file.
7. Print out one copy of this drawing and turn this in.