

(30 pts) Approx. 3 days

The second part of our project is to look at how engineers share their ideas through sketching and careful drawing. A good engineering drawing includes a clear picture of the object, labels of what different components are made out of, and important dimensions. When you make a diagram of any kind, it should be good enough that someone new to the project can fully understand what you're trying to build or describe. In this part of the unit you will practice making 4 different kinds of engineering diagrams, and will add diagrams of your BlockPerson to your engineering notebook.

1. Autodesk Diagram – watch the “Autodesk Diagrams” tutorial. Follow those directions to create a diagram of your BlockPerson in Autodesk. Be sure to include multiple views and dimensions of your BlockPerson. Print a copy of your diagram and add it to your engineering notebook.
2. Isometric Diagram – watch the “Isometric Sketching” tutorial. Follow the procedure shown to make a practice isometric sketch. Try a few times. Then make a nice careful isometric sketch of your BlockPerson. Add some labels for dimensions and tape your sketch to your engineering notebook.
3. Multi-View Diagram – watch the “MultiView Sketching” tutorial. Follow the procedure shown to make a practice sketch of a small object in the room. When the idea of Multiview sketching makes sense to you, make a nice Multi-View sketch of your BlockPerson in your engineering notebook. Include at least 3 views, and label some of the main dimensions.
4. Perspective Diagram – watch the “Perspective Sketching” tutorial. Follow the procedure shown to practice perspective sketching. When you feel ready, make a careful perspective sketch of your BlockPerson in your engineering notebook. Be sure to include some of the main dimensions as labels.
5. Have Mr. Benshoof *approve your 4 diagrams of your BlockPerson* before moving on to the next part.

Part 2: Tasks	5 points	4-3 points	2-1-0 points
 Autodesk Diagram	+ Your Autodesk diagram shows multiple views + Your Autodesk diagram shows multiple dimensions + Diagram is added to notebook	- Diagram is only 1 view - Diagram is missing labels - Diagram is missing dimensions	- Diagram is missing multiple parts - Diagram is missing
 Isometric Diagram	+ Your Isometric diagram uses the correct sketching style + Diagram is added to notebook	- Diagram is sloppy or on the wrong graph paper - Diagram is missing dimensions	- Diagram is missing multiple parts - Diagram is missing
 Multi-View Diagram	+ Your Multi-View diagram uses the correct sketching style + Diagram includes at least 3 views + Diagram is added to notebook	- Diagram is sloppy - Diagram is missing views - Diagram is missing dimensions	- Diagram is missing multiple parts - Diagram is missing
 Perspective Diagram	+ Your Perspective diagram uses the correct sketching style + Diagram is added to notebook	- Diagram is sloppy - Diagram is missing dimensions	- Diagram is missing multiple parts - Diagram is missing
<b>Up to 10 points</b>			
 Take Unit 1 Quiz	+ You took the Unit 1 Quiz on the website by the Quiz Due Date + Grade is based on number correct	N/A	(0 pts) You did not take the Unit 1 Quiz

