**Math 11 Workplace: Scale Representation Unit Project**

For this project, you will be making scale diagrams and models. You may use technology or create your diagrams by hand. All drawings created by hand must be made using a ruler.

Your project must include the following elements:

* A 2-D scale drawing of a living space /11

You may pick any type of space: house, apartment or RV (no tents). An example is shown below of a garden 2-D scale diagram. The 2-D diagram must be to scale and must include:

* 1. Scale statement
  2. Labels with actual lengths
  3. Calculations for finding the drawing lengths from reasonable actual room lengths
  4. Labels for each room or space within
* Front, side and top view diagram for one object in the room /5

You may pick any object in your room. This diagram does not need to be to scale, but it must include measurements and it must be a representation of the real object

* Component part diagram for one object in the room /5

You may pick any object. This diagram must be to scale and include all calculations

* Exploded diagram for one object in the room /5

You may pick any object. This diagram does not need to be to scale, but it must accurate depict the exploded view

* Isometric diagram for one object in the room /5

You may pick any object. This diagram must be to scale, and it must include measurements

* Perspective diagram for one object in the room /5

You may pick any object. This diagram does not need to be to scale, but it must be a representation of the real object

* Reflection questions. /10

You must include with your project your own thoughtful answers to the following questions

* 1. Why did you pick the living space you did?
  2. What did you learn from completing this project?
  3. What aspect of the project are you the most proud of?
  4. What aspect of the project did you find the most challenging?
  5. How will you use the information that you gained from the project outside of class?

Timeline For project completion

May 10: Project handout

Remember ANY class time when you finish early should be used to work on project. Do not leave the projects until the last minute.

May 21: Class time to work on projects

May 22: Class time to work on projects

May 23: Projects due.