

## Scaling a Submarine

**Directions:** This assignment includes 2 parts. You will design your assigned submarine in 3-D (using a program such as SolidWorks or Google SketchUp) or on graph paper. You will then create a scale model of your submarine using modeling clay by using the templates for the general shape from the handout “Classes of Submarines”.

1. Name of submarine: \_\_\_\_\_
2. Dimensions of the submarine:  
\_\_\_\_\_ length \_\_\_\_\_ width \_\_\_\_\_ height
3. To complete the drawing and the model, use a scale of 100m to 1cm.  
Convert the dimensions of the submarine for the drawing and model.  
\_\_\_\_\_ length \_\_\_\_\_ width \_\_\_\_\_ height
4. Use the handout with the 3 shapes of a submarine. Create a model using modeling clay of the submarine by using these shapes and referring to the picture you used in your multimedia slide.

### **Evaluation:**

1. Scale drawing
2. Model of submarine