

Name: _____

Period: _____

Making a Scientific Model

Objective:

You and your partner will create a two-dimensional scientific model of your desk or tabletop at which you are sitting. A physical model is a representation of a real thing that you can touch. In this case you will create a scale drawing that represents the top of your desk or table.

Part I:

Measure the length and width of the top of your table in metric units. Record your values below:

Dimension	Value (cm)
Length	
Width	

Part II:

We need to represent the top of your table or desk in a drawing that is smaller than your actual table or desk. This means that we will have to reduce the values you measured in **Part I** so that the drawing will fit on the back of this paper.

To do this, divide the values you got in **Part I** by ten. This will give you a drawing of a table that is one tenth the size (or ten times smaller) than the original. Record your reduced values in the table below:

Dimension	Value (cm)
Length	
Width	

Continue on the back...

Part III: Scale Drawing. Draw your scale model below using the reduced values from your second data table.

Part IV: Add a *scale drawing* of your Science textbook to your tabletop image above.

Part V:

How many real-world centimeters are represented by one centimeter on your drawing?

Part VI:

What are some examples of scale drawings that are used in the real world? List as many as you can think of below.