Name:

Scientific Tools Station Lab

Station 1: Measure the amount of water in each. Label correctly.

Tool	Amount of Water
Large Graduated Cylinder	
Small Graduated Cylinder	
Beaker	
Flask	

What tool gives you the most accurate measurement?

Station 2: Find the mass of various objects using the Triple Beam Balance. Label correctly.

Object	Mass
yarn	
metal swirl	
calculator	

Station 3: Use the thermometer to find the temperature of the water.

Temperature in degrees Celsius	Temperature in degrees Farenheit

What units will we use when we measure temperature in science class?

Station 4: Find the volume of a regular shaped object. Label correctly. Use a calculator.

Volume = length x width x height

Object	Length	Width	Height	Volume
sm. box				
lg. box				

Station 5: Find the mass of the objects using an electronic balance. Label correctly.

Object	Mass
Calculator	
Bunsen Burner	
Tongs	

Station 6: Find the volume of irregularly shaped objects. Label Correctly.

Use the water displacement method.

Object	Starting value	Ending value	Volume-subtract the starting value from the end value.
Rubber Stopper			
Metal cylinder			

Station 7: Use the ruler and triple beam balance to find the Density of the object.

Density = Mass divided by Volume

Object	Mass (g)	Volume (cm^3)	Density (g/cm^3)
Box			

Station 8: Solve for percent error. Use a calculator. Show all work.

$$\text{percent error} = \frac{|\text{experimental value} - \text{accepted value}|}{\text{accepted value}} \times 100\%$$

1. Calculate the percent error if the experimental value for the density of sodium chloride is 23.4 g/cm^3 and the accepted value is 21.7 g/cm^3.