

Name: _____

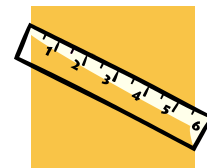
Date: _____

Period: _____



Skills of a Scientist: Measuring Lab

Procedures



Objective: To gain experience in measuring

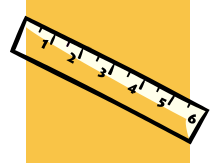
Procedure:

1. Measure the length of the bolt, paper clip, and pencil in millimeters (mm) and centimeters (cm). Record the results in your data table.
2. Use the balance to measure the mass of the three objects in Step 1. Record your results.
3. Determine and record the mass of the empty graduated cylinder and measure length in millimeters (mm) and centimeters (cm).
4. Determine and record the mass of the graduated cylinder containing 15 mL of water. Record your results.
5. Use the graduated cylinder and measure the volume of the small cup and the large cup.
6. Carefully read the thermometer in an empty beaker and record the temperature in degrees Celsius ($^{\circ}\text{C}$) in your data table.
7. Pour 100 mL of water into the beaker and record the water temperature in your data table.
8. Place an ice cube in the water and stir until the ice is gone. Record the temperature of the water again.
9. Answer the following questions:
 - a. How much longer was the pencil than the paper clip?
 - b. Which had the greater mass: the bolt or the paper clip?
 - c. What effect did the ice cube have on the temperature of the water?



Skills of a Scientist: Measuring Lab

Observation and Data



Object	Length		Mass (g)
	(mm)	(cm)	
Bolt			
Paper Clip			
Pencil			
Graduated Cylinder			
Graduated Cylinder with 15 mL water			

Object	Volume (mL)
Small Cup	
Large Cup	

Substance	Temperature (°C)
Air	
Water	
Water and melted ice	