

Chemistry 100 Experiment 1
Density

Name: _____

Date _____

Part 1 Density of Wood

mass of wood = g
length = cm
width = cm
height = cm
volume of wood = cm³
density of wood (m/v) = _____ g/cm³

Part 2 Density of Water

mass of cylinder = g
volume of water = mL

mass of cylinder + water = g
- mass of cylinder = _____ g
mass of water = g
density of water (m/v) = _____ g/mL

Part 3 Density of Salt Water Solution

mass of cylinder = g
volume of salt water = mL

mass of cylinder + salt water = g
- mass of cylinder = _____ g
mass of salt water = g
density of salt water (m/v) = _____ g/mL

Part 4 Density of Irregular Object

Identity of object _____

mass of sample	=	g
volume of water + sample	=	mL
- volume of water	=	mL
= volume of sample	=	mL
density of sample (m/v)	=	<u> </u> g/mL

Questions

1. Would all wooden objects have the same density/ Explain
2. Would all salt water solutions have the same density ? Explain
3. Why is the method used in part 4 not suitable for finding the density of:
 - a. Wood
 - b. Sugar
4. How would each of the following experimental errors affect the results in part 4. Would they make the result too high or too low
 - a. When sliding objects into the cylinder some water splashed out
 - b. Some air bubbles remained trapped between the objects under the surface of the water