

Metal Cylinder 1:

Cylinder description: _____

Mass: _____

Calculate volume using the water-displacement method. Show work or explain your calculation.	Calculate density. Show your work.

Metal Cylinder 2:

Cylinder description: _____

Mass: _____

Calculate volume using the water-displacement method. Show work or explain your calculation.	Calculate density. Show your work.

Analysis Questions:

1. *Make a statement about the densities of the five objects compared to the known density of water. Do your results make sense? Why or why not? Explain.*

2. *Pretend that you have an unknown sample of wood. After your measurements, you calculate that the density of the sample is 1.12 g/cm^3 .*
 - A. *Is this possible? Why or why not?*

 - B. *What very simple test could you perform to determine if your calculation might be correct?*

3. *Many ships (like the Titanic) are constructed of steel, which is mostly iron but has small amounts of carbon and/or other elements mixed in. Most metals sink in water, and iron is a metal. How do you explain the fact that the Titanic floated on the water (at least for a while...)?*