

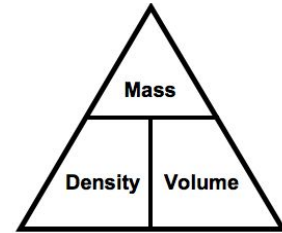
Density

Grade 8: Understanding Matter and Energy

$\rho$  = Density  
 m = Mass  
 v = Volume

$\rho = m \div v$   
 $m = \rho \cdot v$   
 $v = m \div \rho$

Density = Mass/Volume  
 Mass = Density x Volume  
 Volume = Mass/Density



1. Generally, which one has the higher density (circle one).

Liquid

Gas

Solid

or

or

or

Gas

Solid

Liquid

2. How can you use water to determine the volume of an irregularly shaped object?

3. Why do the straw and paper clip float differently in each of the liquids tested?

4. Determine the density, mass or volume of the objects in the following questions.

a. If the mass of the liquid is 200g and the volume is 50mL what is the density?

Equation Needed	Answer

b. If the density of an object is 10g/mL and the volume is 70mL what is the mass?

Equation Needed	Answer

5. CHALLENGE: Figure out the density of two random items in your home using the method shown to you in the video.

Object	Mass	Volume	Density
1			
2			