Glue this side
down into
your science
notebook

Liz LaRosa
5th Grade Science
www.middleschoolscience.com
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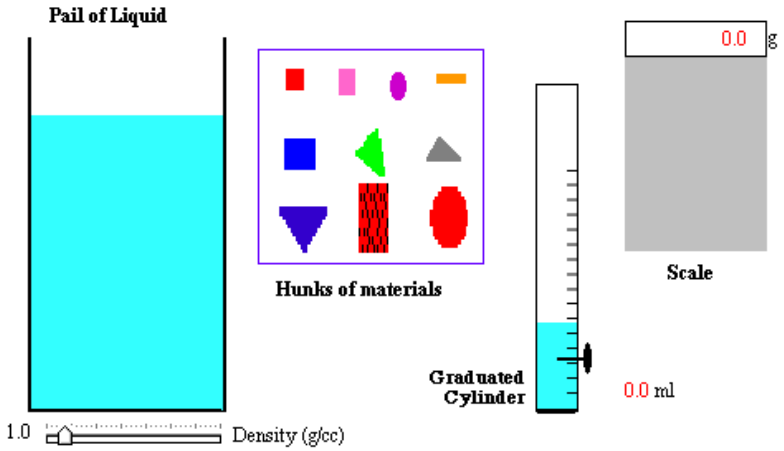
Float or Sink - Density

http://ww2.unime.it/weblab/mirror/ExplrSci/dswmedia/density.htm



Procedure:

1. Choose a shape from the box.
2. Record the shape and color into your data table.
3. Place the shape onto the scale and record the **mass** in grams.
4. Place the shape into the graduated cylinder and record the **volume** in mL.
5. Place the shape into the tank of water to see if it **floats or sinks**, write the result into the data table.
6. When you are done with all the objects, calculate the **density** for each to the nearest 100^{th} using the formula **D = M ÷ V.**
7. Label the units: **g/cm^3 (1mL = 1 cm^3)**

Object	Mass	Volume	Float or	Density
	grams	mL	Sink?	g/cm^3

The density of the water in the pail is **1.0 g/cm^3**. List the items along with their densities into the correct column below.

Items that floated	
Object	**Density**

Items that sank	
Object	**Density**

<u>Analysis Questions</u>:

Answer the following using complete sentences.

1. Name the object with the largest **mass**. Did it float?
2. Name the object with the smallest **mass**. Did it float?
3. Name the object with the largest **volume**. Did it float?
4. Name the object with the smallest **volume**? Did it float?
5. For the objects that **floated**, what were their densities compared to the density of water?
6. For the objects that **sank**, what were their densities compared to the density of water?
7. If the density of the liquid in the tank was **2.0 g/cm^3**, which objects would sink to the bottom and why?
8. If the density of the liquid in the tank was **5.0 g/cm^3**, which objects would sink to the bottom and why?

<u>Conclusion</u>: 2-3 complete sentences on what you learned in this lab.