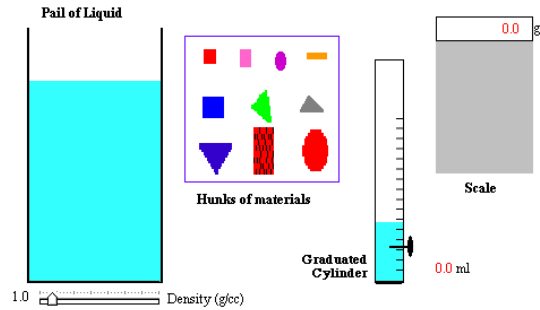


Name _____ HR _____ Date _____

Float or Sink - You find out!



You can drag the objects to the scale to determine the mass, the beaker to measure the volume, and then put them in the pail to determine if they float. The density of water is 1 g/cc.

ExploreLearning



Item	Does it Float?	Mass - g	Volume - mL	Density g/mL
Red Square				
Pink Rectangle				
Purple Oval				
Orange Rectangle				
Blue Square				
Green Triangle				
Grey Triangle				
Dark Blue Triangle				
Red/Black Rectangle				
Red Oval				

After you have found the mass and volume of each item, use the following formula to calculate density. Write the density of each item into the data table.

$$\text{Density} = \frac{\text{Mass in grams}}{\text{Volume in mL}}$$

The density of the water in the pail is 1.0 g/mL.
 List the items as well as their densities in the correct column:

Objects that Float	Density	Objects that Sink	Density

1. What did all the objects that **floated** have in common? _____

2. What did all the objects that **sank** have in common? _____

3. Which item had the largest **Mass**? _____ with _____ g.

4. Which item had the smallest **Mass**? _____ with _____ g.

5. Which item had the largest **Volume**? _____ with _____ mL

6. Which item had the smallest **Volume**? _____ with _____ mL

7. If the density of the liquid in the pail was changed to **5.0 g/mL**, what object(s) would sink to the bottom? How do you know? Explain. _____

