Internet Density Activity

This worksheet should be completed as you work through the Internet site: <u>http://www.explorescience.com/density.htm</u>

Complete the following tables:

- 1. Use the scale to measure mass and the graduate cylinder to find the volume of each object.
- 2. Place the appropriate units inside of the parentheses.
- 3. Rank the objects from lowest to highest density

Description	Mass ()	Volume ()	Density (Rank
Blue Square					
Blue Triangle					
Red Square					
Red Oval					
Pink Square					
Purple Oval					
Green Triangle					
Grey Triangle					
Tan Rectangle					
Red/Black Rectangle					

Use the slide bar to set the density of the fluid in the container to each of the densities labeled in the next table. Determine if each object sinks or floats in the container.

Description	Sink or Float Density =1 g/ml	Sink or Float Density =2 g/ml	Sink or Float Density =5 g/ml
Blue Square			
Blue Triangle			
Red Square			
Red Oval			
Pink Square			
Purple Oval			
Green Triangle			
Grey Triangle			
Tan Rectangle			
Red/Black Rectangle			

Summary:

Answer the following questions (If you are doing the activity in class, please let the next group on the computer).

1. Do you notice any correlation (pattern) between the volume of an object and its ability to float (If yes, explain)?

2. Do you notice any correlation between the mass of an object and its ability to float (If yes, explain)?

3. Do you notice any correlation between the density of an object and its ability to float (If yes, explain)?