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## Internet Density Activity

This worksheet should be completed as you work through the Internet site:
http://www.explorescience.com/density.htm
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 <br> Density =1 g/ml | Sink or Float <br> Density =2 $\mathbf{~ / / m I}$ | Sink or Float <br> 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)?
