Diving Deeper into Density

Density (by the book!):

See Powerpoint

Density (by me!):

See Powerpoint

The formula to calculate density:

See Powerpoint

The principles of DENSITY:

What the Principle Says	What the Principle Means	How I know the Principle is True
See Powerpoint	More matter (stuff) into same size space means it's more dense.	Suitcase Case
See Powerpoint	Same amount of matter (stuff) into smaller space means more dense	Cotton ball and Beaker Demo.
See Powerpoint	More matter (stuff) doesn't always mean more dense	Styrofoam floats / Paper clips sink Demo.

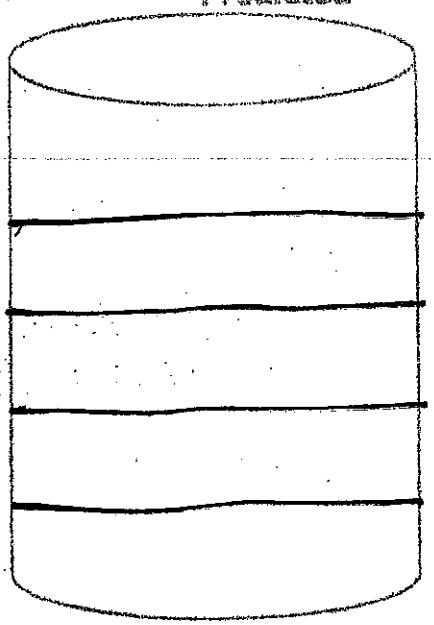
Density Columns

Materials: Maple syrup
Vegetable oil
Colored Water
Rubbing alcohol

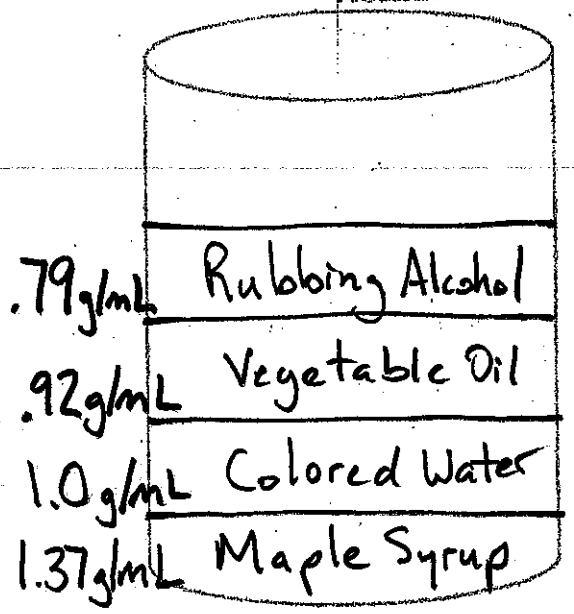
Procedure: The same volume of each material will be placed in the test tube.

1. Predict the order that you think the liquids will stack.
2. Why do you think that they will stack in this order?

Predicted



Actual



4. Why did it stack this way?

Try your own!

From the chart, determine how the following liquids would stack in a test tube. Draw and label.

Sea water	1.03 g/ml
Gasoline	0.7 g/ml
Turpentine	0.9 g/ml
Glycerine	1.3 g/ml
Pure water	1.0 g/ml