

SM3- Extra Credit Project Due by Thursday for 20 points.

You need a clear cylinder shaped vase or container.

You need some cylindrical measuring cups. Volume of a cylinder is $V = \pi r^2 h$

Measure 1/4c of honey which is 85 grams. Find the Volume of the 1/4 cup in cm^3 . Calculate the Density. Set aside for later.

Measure 1/4 cup of liquid dish soap which is 55grams. Find the Volume of the 1/4 cup in cm^3 . Calculate the Density. Set aside for later.

Measure 1/2 cup of corn syrup. Add a few drops of food coloring. This should be about 150 grams. Find the Volume of the 1/2 cup in cm^3 . Calculate the Density. Set aside for later.

Measure 3/4 cup of water. This should be about 177.5 grams. Find the Volume of the 3/4 cup in cm^3 . Calculate the Density. Set aside for later.

Measure 1/3 cup rubbing alcohol. Add a few drops of a different color food coloring. This should be about 62 grams. Find the Volume of the 1/3 cup in cm^3 . Calculate the Density. Set aside for later.

Measure 1/3 c vegetable oil. This should be about 74.5 grams. Find the Volume of the 1/3 cup in cm^3 . Calculate the Density. Set aside for later.

Now take a picture of you with all the above mess.

Now the moment of truth...

List the densities from each from largest to smallest.

Video this last part.

Pour them into a clear vase from LARGEST DENSITY to SMALLEST making sure you pour Slowly and DON'T let your liquids touch the sides of the container.

If you do it correctly the liquids should not mix and lay beautifully on top of each other.

Show me your picture, Calculation paper, and Video for up to 20 points Extra Credit.