Super Soap Density Lab

Procedure:

Use your ruler to measure the length, width, and height of the bar of soap. Multiply the width x length x height to find the volume of the bar of soap. Then use the double arm balance to find the mass of the bar of soap. Use the formula D=M/V to find the density of the bar of soap. Use your density calculation to predict whether the soap will float or sink. Then use a "tester" bar of the same soap to test your prediction, and record whether the soap floated or sank. Repeat the process for each type of soap. Finally, microwave each type of soap and record your observations.

Soap Variety	Measurements to find volume (in cm)			Volume (cm^3)	Mass (g)	Density (g/cm^3)	Float/Sink Prediction	Float/Sink Data	Results from Microwaving the Soap
	Height x	Length x	Width =						

Analysis and Conclusions:

How did you make your predictions about whether the soap would float or sink?

How did your density calculations relate to whether the soap float or sank?

What may have caused errors in your data?

What did density have to do with the behavior of the microwaved soap?

Were any of the results surprising?