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DENSITY LAB

1. Go to: **Density Lab** AND Click: **Launch**
2. Click: **Turn Fluid into Water**
3. **Predict** whether the object will sink or float
4. Select each object and drag it to the scale and record the mass.
5. Drag the object to the 'water' in the beaker, record the volume of the object. **Click here if you need help** with the simple and thorough and/or very thorough displacement methods.
6. IF NECESSARY, correct your Sink/Float prediction
7. Calculate the density by using the formula density = mass/volume (mass divided by volume)

Density Lab				
Object (Describe)	**Sink or Float**	**Mass (grams)**	**Volume (mL)**	**Density g/mL**
GOLD	**sink**	**40.53**	**27.6 - 25.5 = 2.1**	**40.53/2.1 = 19.3 g/mL**
water	**n/a**			
ice				
iron				
mystery	**n/a**			
foam				
rubber				
wood				
lead				

Predict if your object will sink or float in water using the chart above.

What did you notice about the density of the water versus the density of your object?

Try changing the density of the liquid to float the object near the middle of the solution.

Describe the general behavior of the interactions of objects based on density.