Na	me Date
	Density Lab
Sir Pre 1. 2. 3.	nk or Float eparing the Cups Gather three small paper/plastic cups. Label one cup as water, one cup as oil, and one cup as syrup. Measure and record the mass of each cup.
4. 5. 6.	Mass of water cup:g Mass of oil cup:g Mass of syrup cupg Measure and pour 50 ml of water into each cup. Use a marker to draw a line at top of the water line. Pour the water out of the oil and syrup cup but leave the water in the water cup.
De 1. 2.	nsity of Water Measure the mass of the water cup with the water in the cup:g Calculate the mass of the water minus the mass of the cup using subtraction:
3.	gg Mass of cup and Water - Mass of cup without Water = Mass of Water Calculate the density of the water by dividing the mass of the water by its volume:
5.	g ÷ml =g/ml Mass of Water Volume of Water Density of Water
De 1. 2. 3.	nsity of Oil Pour oil into the cup marked "Oil" until it reaches the 50 ml mark. Measure the mass of the oil cup with the oil in the cup: g Calculate the mass of the oil minus the mass of the cup using subtraction:
	ggg Mass of cup with Oil - Mass of cup without Oil = Mass of Oil
4.	Calculate the density of the oil by dividing the mass of the oil by its volume:
	g ÷ml =g/ml Mass of Oil Volume of Oil Density of Oil
De 5. 6. 7.	nsity of Syrup Pour Syrup into the cup marked "Syrup" until it reaches the 50 ml mark. Measure the mass of the syrup cup with the syrup in the cup: g Calculate the mass of the syrup minus the mass of the cup using subtraction:
	gg Mass of cup with Syrup - Mass of cup without Syrup = Mass of Syrup
8.	Calculate the density of the oil by dividing the mass of the syrup by its volume:
	g ÷ml =g/ml Mass of syrup Volume of Syrup Density of Syrup

Sink or Float

- 1. Predict whether syrup would float or sink on water: ______
- 2. Predict whether oil would float or sink on water: ______

Density Cup

- 1. Pour all three cups of liquids into the larger clear cup.
- 2. <u>Draw a diagram</u> representing the cup containing the three fluids.
- 3. <u>Label the diagram</u> with the terms: syrup, water, and oil.
- 4. Write the density of each fluid near the labels. (Don't forget to include the unit)