Density of Liquids Lab Supply List and Setup Instructions

Materials

Tall, clear smooth-sided bottle or vase with a 1'-2.5" diameter (17 oz. Sparkling Ice drink type bottle with top cut off works well)	paper towels/old towel
funnel	3 t. salt
red and blue food coloring	5 clear cups/glasses
¼ c. dish soap (or less depending on diameter of bottle/vase)-preferably not yellow	1 teaspoon (measuring spoon)
water	small spoon for stirring
¼ c. vegetable oil (or less depending on diameter of bottle/vase)	1-1/4 c. (10 oz.) or 50% volume of your bottle baby oil, mineral oil, or very light-colored vegetable oil (baby or mineral oil are best)
cake pan to catch spills	worksheet (printed from website)
smooth sided empty plastic bottle with very tight-fitting lid (a 17 oz. Sparkling Ice drink type bottle works well)	measuring cup
¼" slice of carrot	calculator
knife to cut carrot slice	

Advanced preparation:

1. If you are not using a Sparkling Ice bottle with the neck cut off, determine how much water it takes to fill your cylindrical container about ¼ full. This is the volume you will need of each of the liquids (water, vegetable oil, dish soap).
2. If using a Sparkling Ice bottle, pre-measure ¼ c. vegetable oil, ¼ c. dish soap, and ¼ c. water into 3 separate clear cups. If you are using a smaller cylindrical container, premeasure the volume you determined above instead of ¼ c.
3. Fill a cup with ½ c. water.
4. Fill another cup with 1-1/2 c. water.
5. Cut a slice of carrot approximately ¼" thick.
6. Have all materials ready where you will be sitting for class.