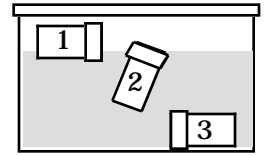


# Mystery Canisters

Name \_\_\_\_\_

**Part A:** Using the materials at your desk, modify three film canisters so that they will float, sink, or remain suspended in the middle of a tub of tap water. One canister should float (1), another should remain suspended in the middle of the tank (2), and another should sink to the bottom (3). Have your teacher check your canisters before you proceed to the next part.



**Part B:** Once you have completed Part A, use the equipment provided to find the mass and volume of each canister. Record the information in the chart and calculate the density for each.

	Mass (g)	Volume (ml)	Density (g/ml)
1			
2			
3			

**Part C:** Based on each density, predict the location of each item in a tub of tap water. Choose from: float, sink, or suspended.

A. 0.2 g/ml \_\_\_\_\_ D. 1.0 g/ml \_\_\_\_\_

B. 2.3 g/ml \_\_\_\_\_ E. 0.5 g/ml \_\_\_\_\_

C. 0.99 g/ml \_\_\_\_\_ F. 1.9 g/ml \_\_\_\_\_