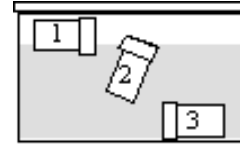


Dunkin' for Density



Procedure:

1. Find the mass of your **empty** film canister.
2. Using the materials at your desk, modify the film canister so that it will **float**, **suspend**, or **sink** in the container filled with water.
3. Once you have made the canister either float, suspend, or sink, call your teacher over to verify and then record your data.
4. Using your "sinking" canister, determine the **volume** of the canister.
5. Calculate the **density** for each using the formula $D=M/V$

Data Table: Mass, Volume, and Density of film canister

Film Canister	Mass (g)	Volume (cm ³)	Density (g/cm ³)
Empty			
Float			
Suspend			
Sink			

Analysis and Results: Use complete sentences for full credit

1. What is the mass of the **empty** film canister?
2. Did the **mass** of the film canister change at all? Explain.
3. Did the **volume** of the film canister change at all? Explain.
4. What caused the canister to stay at the different levels in the water? Explain what caused the canisters to float, sink, or suspend using the term **density**.
5. Share your data with the class. We will graph the results.

Conclusion: 2-3 sentences on what you learned.

Cut along dotted lines and paste into lab journal

