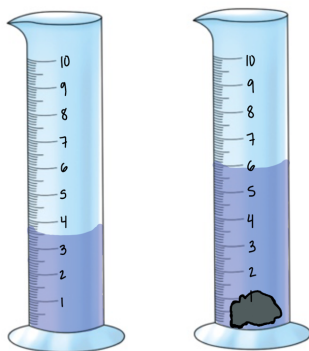


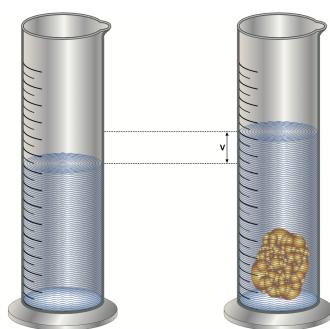
CONCEPT: DENSITY OF NON-GEOMETRIC OBJECTS: WATER DISPLACEMENT

- **Water Displacement:** The amount of water moved out of the way when an object is totally submerged.
 - Water displacement can be used to determine the volume of *non-geometric objects*.

EXAMPLE: Calculate the volume of the water displaced by the submerging of the object. (The volume of the given cylinders are in mL).



PRACTICE: A piece of unknown solid weighs approximately 0.045 lbs. When a scientist places it in a glass beaker the water level increases from 200 mL to 260 mL. What is the density of the unknown solid in g/mL?



PRACTICE: If an irregularly shaped apple possesses a density of 0.96 g/cm^3 , what is its mass in milligrams? (The volume of the given cylinders are in mL).

