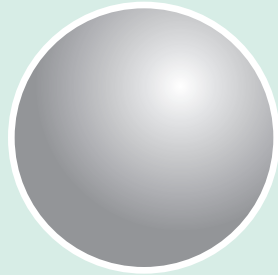


# Apparent Density

Apparent density is the total mass divided by the total volume.

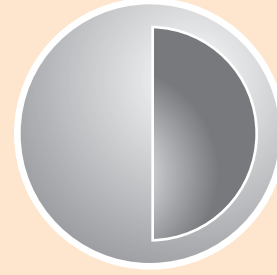


***Solid*** steel ball

volume = 25 mL  
mass = 195 g

$$\text{Average density} = \frac{195 \text{ g}}{25 \text{ mL}}$$

Average density = 7.8 g/mL  
**SINKS!**



***Hollow*** steel ball

volume = 25 mL  
mass = 20 g

$$\text{Average density} = \frac{20 \text{ g}}{25 \text{ mL}}$$

Average density = 0.8 g/mL  
**FLOATS!**