

Name _____ Period _____

College Prep Chemistry of the Earth System

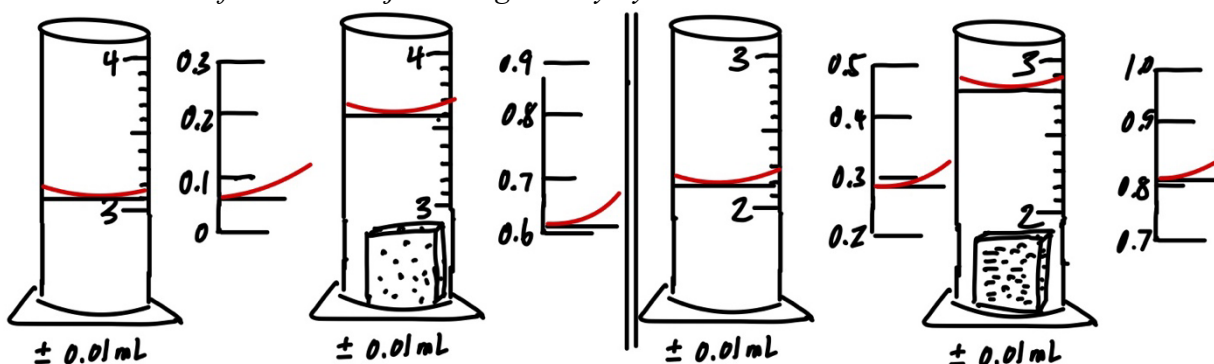
Assignment 0J – Calculating Volume of Matter

30 Points

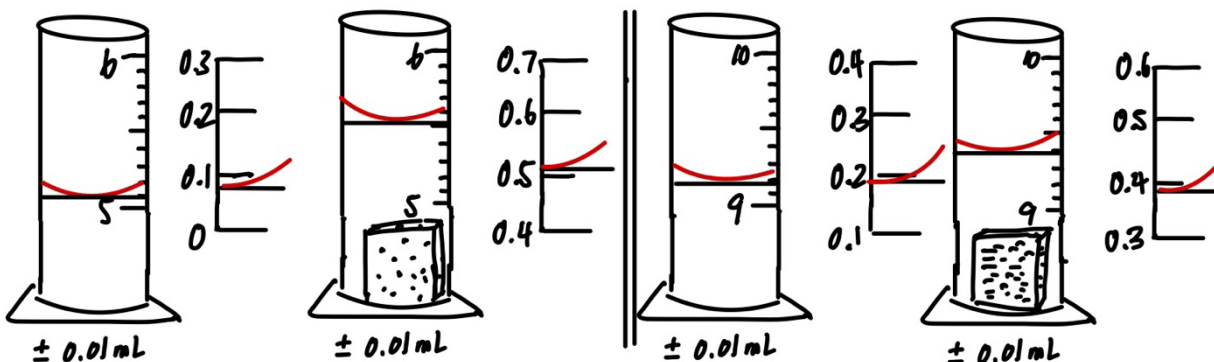
Answer the following questions

Define Volume by Difference	Why can volume by difference measure the volume of irregular matter?

Find the volume of the solid object using density by volume



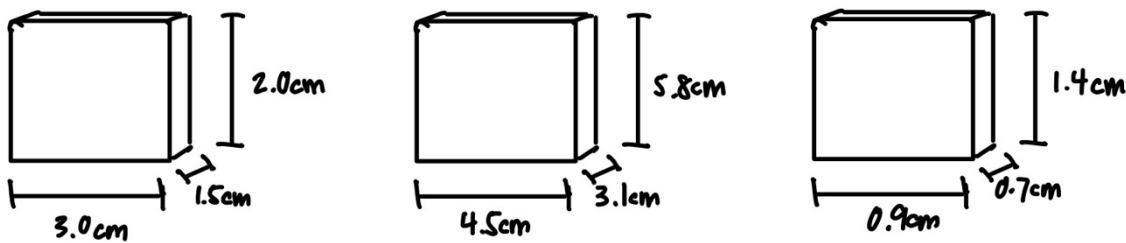
Starting Volume	Final Volume	Starting Volume	Final Volume
mL	mL	mL	mL
Volume by Difference $V_{\text{cube}} = V_{\text{final}} - V_{\text{ini}}$		Volume by Difference $V_{\text{cube}} = V_{\text{final}} - V_{\text{ini}}$	
Matter Volume	mL	Matter Volume	mL



Starting Volume	Final Volume	Starting Volume	Final Volume
mL	mL	mL	mL

Volume by Difference $V_{\text{cube}} = V_{\text{final}} - V_{\text{ini}}$		Volume by Difference $V_{\text{cube}} = V_{\text{final}} - V_{\text{ini}}$	
Matter Volume	mL	Matter Volume	mL

Find the volume of the solid object using measurement



Length (l)		Length (l)		Length (l)	
cm		cm		cm	
Width (w)		Width (w)		Width (w)	
cm		cm		cm	
Height (h)		Height (h)		Height (h)	
cm		cm		cm	
Volume Solid $V_{\text{solid}} = l \bullet w \bullet h$		Volume Solid $V_{\text{solid}} = l \bullet w \bullet h$		Volume Solid $V_{\text{solid}} = l \bullet w \bullet h$	
V_{solid}	cm ³	V_{solid}	cm ³	V_{solid}	cm ³
V_{solid}^*	mL	V_{solid}^*	mL	V_{solid}^*	mL

* 1cm³ = 1mL