

# LAB 5: Density (PLO)

- read grad cylinder to nearest mL (eg)  $63 \text{ mL} = 63 \text{ cm}^3$
- zero balance before use; as directed in lab;  $\pm 0.1 \text{ g}$
- show work/equations/steps/rounding fully

PART A

$$\rho = \frac{m}{V} \text{ g/cm}^3$$

$$\% \text{ dev} = \frac{\text{expt} - \text{expected}}{\text{expected}} \times 100$$

MAY BE < 0!

PART B

use  $\rho_{\text{water}} = 1.00 \text{ g/cm}^3$

PART C:

$$m_{\text{app}} = m_{\text{real}} - m_{\text{fluid}}$$

also

$$m_{\text{app}}^{\text{Al+wood}} = m_{\text{app}}^{\text{Al}} + m_{\text{app}}^{\text{wood}}$$

measured!

PART B

solve for this!

(PLO)