

Unit 1

Matter

Formulas: Density

When **Density** is unknown

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

Density is measured in

$$\frac{\text{g}}{\text{cm}^3} \quad | \quad \frac{\text{g}}{\text{mL}}$$

When **Mass** is unknown

$$\text{mass} = \text{density} \cdot \text{volume}$$

Mass is measured in

$$\text{g} \quad | \quad \text{kg} \quad | \quad \text{mg}$$

When **Volume** is unknown

$$\text{volume} = \frac{\text{mass}}{\text{density}}$$

Volume is measured in

$$\text{L} \quad | \quad \text{mL} \quad | \quad \text{cm}^3$$