

## Unit 1

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### Matter

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#### Density Formulas

When **Density** is unknown

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

**Density** is measured in

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

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When **Mass** is unknown

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

**Mass** is measured in

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

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When **Volume** is unknown

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

**Volume** is measured in

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