

# Matter and Mass

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Matter is anything that has mass and volume.

- Define *mass*.
  - What equipment is used to measure mass?
  - What base unit is used to measure mass?
  - How does mass differ from weight?
- Define *volume*.
  - What lab equipment is used to measure volume?
  - What base unit is used to measure volume?

What does the Law of Conservation of Mass state?

**Sodium chloride is formed by reacting solid sodium metal with chlorine gas according to the following chemical equation.**



What are the reactants in this reaction?

What are the products in this reaction?

If the reaction begins with 46.0 g of sodium and 71.0 g of chlorine, what mass of sodium chloride will be formed?

If an 11.50-g sample of sodium reacts with chlorine to form 29.25 g of sodium chloride, what is the mass of chlorine that reacted?