

Grade 8 Science Notes: Chemical Reactions

Chemical Reactions are processes where substances are transformed into new substances with different properties.

Types of Chemical Reactions:

1. Combination Reaction:

- Two or more substances combine to form one product.
- Example: Hydrogen + Oxygen $\rightarrow$ Water.

2. Decomposition Reaction:

- A compound breaks down into simpler substances.
- Example: Water $\rightarrow$ Hydrogen + Oxygen.

3. Displacement Reaction:

- An element replaces another in a compound.
- Example: Zinc + Copper Sulfate $\rightarrow$ Zinc Sulfate + Copper.

4. Combustion Reaction:

- A substance reacts with oxygen, releasing energy.
- Example: Methane + Oxygen $\rightarrow$ Carbon Dioxide + Water + Energy.

Reactants and Products:

- Reactants: Starting substances.
- Products: New substances formed.

Indicators of a Chemical Reaction:

1. Color Change.
2. Gas Production (bubbles).
3. Temperature Change (heat release/absorption).
4. Formation of Precipitate.

Importance:

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Yan Bai



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