

**Chemical Reaction
(Chemical Change)
(page 69)**

Description

- **Different substance is formed**
- **usually not reversible (cannot change back)**

Description

- Chemical bonds are broken, atoms are rearranged and new bonds are formed.
- $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{energy}$
(combustion reaction)

5 Signs of Chemical Change (p. 72)

1. Color change



2. Formation of precipitate



3. Formation of a gas

4. Temperature change

5. Change in odor

