



## Chemical Reactions: Reactants & Products Quiz

**1. What is a chemical reaction?**

- A) A type of sandwich
- B) When substances mix without changing
- C) When one substance turns into another
- D) When water evaporates

**2. In a chemical reaction, the substances you start with are called:**

- A) Products
- B) Molecules
- C) Reactants
- D) Atoms

**3. The substances you end up with after a chemical reaction are called:**

- A) Reactants
- B) Products
- C) Ingredients
- D) Elements

**4. Which of these is an example of a chemical reaction?**

- A) Ice melting
- B) Water boiling
- C) Wood burning
- D) Sugar dissolving in tea

**5. If vinegar reacts with baking soda to make bubbles, what are vinegar and baking soda?**

- A) Products
- B) Atoms
- C) Reactants
- D) Gases

**6. What do bubbles in a chemical reaction often mean?**

- A) It's not working
- B) Heat is leaving
- C) A gas is being made
- D) Water is boiling

**7. In the reaction: hydrogen + oxygen  $\rightarrow$  water, which is the product?**

- A) Hydrogen
- B) Oxygen
- C) Water
- D) Air

**8. True or False: In every chemical reaction, the number of atoms stays the same—they're just rearranged.**

- A) True
- B) False

**9. Rust forming on iron is an example of:**

- A) Physical change
- B) Chemical reaction
- C) Freezing
- D) Evaporation

**10. Which of these signs shows that a chemical reaction has happened?**

- A) Change in color
- B) Temperature change
- C) Gas bubbles forming
- D) All of the above

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 **Reactants and Products: What's What?**

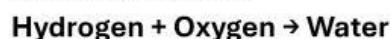
**1. In the reaction below, what are the *reactants*?**



- A) Magnesium Oxide
- B) Magnesium and Oxygen
- C) Oxygen only
- D) Magnesium only

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**2. In the reaction:**

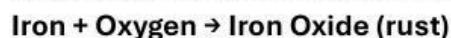


What is the *product*?

- A) Hydrogen
- B) Water
- C) Oxygen
- D) Hydrogen and Oxygen

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**3. What are the *products* in this reaction?**



- A) Iron and Oxygen
- B) Oxygen only
- C) Iron Oxide
- D) Just Iron

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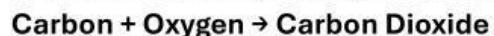
**4. In this reaction, what are the *reactants*?**



- A) Water and Salt
- B) Vinegar and Baking Soda
- C) Carbon Dioxide and Water
- D) Just Baking Soda

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**5. In this reaction, identify the *products*:**

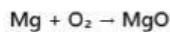


- A) Carbon and Oxygen
- B) Oxygen only
- C) Carbon only
- D) Carbon Dioxide

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 **Reactants and Products – Using Chemical Equations**

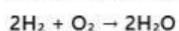
**1. In the reaction below, what are the *reactants*?**



- A) MgO
- B) Mg and O<sub>2</sub>
- C) O<sub>2</sub> only
- D) Mg only

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**2. In the reaction:**

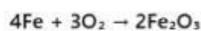


What is the *product*?

- A) H<sub>2</sub>
- B) H<sub>2</sub>O
- C) O<sub>2</sub>
- D) H<sub>2</sub> and O<sub>2</sub>

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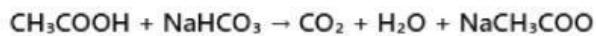
**3. What are the *products* in this reaction?**



- A) Fe and O<sub>2</sub>
- B) O<sub>2</sub> only
- C) Fe<sub>2</sub>O<sub>3</sub>
- D) Just Fe



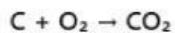
4. In this reaction, what are the *reactants*?



- A)  $\text{CO}_2$  and  $\text{H}_2\text{O}$
- B)  $\text{CH}_3\text{COOH}$  and  $\text{NaHCO}_3$
- C)  $\text{NaCH}_3\text{COO}$  only
- D)  $\text{H}_2\text{O}$  and  $\text{CH}_3\text{COOH}$

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5. In this reaction, identify the *product*:



- A) C and  $\text{O}_2$
- B)  $\text{O}_2$  only
- C) C only
- D)  $\text{CO}_2$