

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 → 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



Reactants and Products: What's What?

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

Magnesium + Oxygen → Magnesium Oxide

- A) Magnesium Oxide
 - B) Magnesium and Oxygen
 - C) Oxygen only
 - D) Magnesium only
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2. In the reaction:

Hydrogen + Oxygen → Water

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?

Iron + Oxygen → Iron Oxide (rust)

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

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

Vinegar + Baking Soda → Carbon Dioxide + Water + Salt

- A) Water and Salt
 - B) Vinegar and Baking Soda
 - C) Carbon Dioxide and Water
 - D) Just Baking Soda
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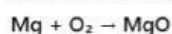
5. In this reaction, identify the *products*:

Carbon + Oxygen → Carbon Dioxide

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

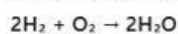
 Reactants and Products – Using Chemical Equations

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



- A) MgO
 - B) Mg and O₂
 - C) O₂ only
 - D) Mg only
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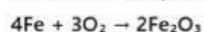
2. In the reaction:



What is the *product*?

- A) H₂
 - B) H₂O
 - C) O₂
 - D) H₂ and O₂
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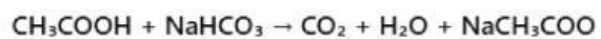
3. What are the *products* in this reaction?



- A) Fe and O₂
- B) O₂ only
- C) Fe₂O₃
- D) Just Fe

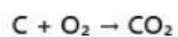


4. In this reaction, what are the *reactants*?



- A) CO_2 and H_2O
 - B) CH_3COOH and NaHCO_3
 - C) NaCH_3COO only
 - D) H_2O and CH_3COOH
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5. In this reaction, identify the *product*:



- A) C and O_2
- B) O_2 only
- C) C only
- D) CO_2