

What is a decomposition reaction?

Lesson Review

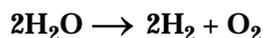
Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

- _____ 1. A reaction in which a substance breaks down into simpler substances is a synthesis reaction.
- _____ 2. Electrolysis is the process by which water is decomposed by an electric current.
- _____ 3. Decomposition reactions are the opposite of single-replacement reactions.
- _____ 4. In electrolysis, water breaks down, or decomposes, into oxygen and nitrogen.
- _____ 5. Most decomposition reactions need energy to take place.
- _____ 6. The products of a decomposition reaction can be elements, compounds, or both.
- _____ 7. Chemists show the type of energy needed for a decomposition reaction by writing a symbol above the subscript in a chemical equation.
- _____ 8. When table salt is decomposed, the products are sodium and chlorine.
- _____ 9. The energy used in a decomposition reaction is usually in the form of heat or solar energy.
- _____ 10. A circle above the arrow in a chemical equation means that heat is needed.

Skill Challenge

Skills: *inferring, relating*

Use the equation to answer the questions.



1. What kind of reaction does the equation show? _____
2. What forms of energy usually cause this type of reaction? _____
3. What are the products of this reaction? _____
4. Describe the relationship between the reactant and the products shown in the equation.
