

Name: _____

Date: _____

Student Exploration: Chemical Equations

Vocabulary: Avogadro's number, chemical equation, chemical formula, chemical reaction, coefficient, combination, combustion, conservation of matter, decomposition, double replacement, molar mass, mole, molecule, product, reactant, single replacement, subscript

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A candle is placed on one pan of a balance, and an equal weight is placed on the other pan.

What would happen if you lit up the candle and waited for a while? _____

2. Suppose the candle was placed in a large, sealed jar that allowed it to burn for several minutes before running out of oxygen. The candle and jar are balanced by an equal weight.

In this situation, what would happen if you lit up the candle and waited? _____

Gizmo Warm-up

Burning is an example of a **chemical reaction**. The law of **conservation of matter** states that no atoms are created or destroyed in a chemical reaction. Therefore, a balanced **chemical equation** will show the same number of each type of atom on each side of the equation.

To set up an equation in the *Chemical Equations Gizmo™*, type the **chemical formulas** into the text boxes of the Gizmo. First, type in "H₂+O₂" in the **Reactants** box and "H₂O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.

Reactants		Products
H ₂ +O ₂	→	H ₂ O

1. Check that the **Visual** display is chosen on each side of the Gizmo, and count the atoms.
 - A. How many hydrogen atoms are on the **Reactants** side? _____ **Products** side? _____
 - B. How many oxygen atoms are on the **Reactants** side? _____ **Products** side? _____
2. Based on what you see, is this equation currently balanced? _____

Gizmo Answers Explore Learning Chemical Equations

Michael Seilmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Gizmo Answers Explore Learning Chemical Equations

1. Understanding the eBook Gizmo Answers Explore Learning Chemical Equations
 - The Rise of Digital Reading Gizmo Answers Explore Learning Chemical Equations
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Answers Explore Learning Chemical Equations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gizmo Answers Explore Learning Chemical Equations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Answers Explore Learning Chemical Equations

- Personalized Recommendations
 - Gizmo Answers Explore Learning Chemical Equations User Reviews and Ratings
 - Gizmo Answers Explore Learning Chemical Equations and Bestseller Lists
5. Accessing Gizmo Answers Explore Learning Chemical Equations Free and Paid eBooks
 - Gizmo Answers Explore Learning Chemical Equations Public Domain eBooks
 - Gizmo Answers Explore Learning Chemical Equations eBook Subscription Services
 - Gizmo Answers Explore Learning Chemical Equations Budget-Friendly Options
 6. Navigating Gizmo Answers Explore Learning Chemical Equations eBook Formats
 - ePub, PDF, MOBI, and More
 - Gizmo Answers Explore Learning Chemical Equations Compatibility with Devices
 - Gizmo Answers Explore Learning Chemical Equations Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Answers Explore Learning Chemical Equations
 - Highlighting and Note-Taking Gizmo Answers Explore Learning Chemical Equations
 - Interactive Elements Gizmo Answers Explore Learning Chemical Equations
 8. Staying Engaged with Gizmo Answers Explore Learning Chemical Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmo Answers Explore Learning Chemical Equations
 9. Balancing eBooks and Physical Books Gizmo Answers Explore Learning Chemical Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Answers Explore Learning Chemical Equations
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Gizmo Answers Explore Learning Chemical Equations
 - Setting Reading Goals Gizmo Answers Explore Learning Chemical Equations
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Gizmo Answers Explore Learning Chemical Equations

- Fact-Checking eBook Content of Gizmo Answers Explore Learning Chemical Equations
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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