

## 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, molecular mass, 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? **The pan with the candle on it will be lifted.**

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? **The side with the lit candle would rise because the energy from the burning flame would be concealed in the top of the jar making it lighter.**

### 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 "H<sub>2</sub>+O<sub>2</sub>" in the **Reactants** box and "H<sub>2</sub>O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.



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? **2** **Products** side? **2**
  - B. How many oxygen atoms are on the **Reactants** side? **2** **Products** side? **1**
2. Based on what you see, is this equation currently balanced?  
**No.**

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## **Explore Learning Hr Diagram Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Explore Learning Hr Diagram Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Explore Learning Hr Diagram Answers**

1. Understanding the eBook Explore Learning Hr Diagram Answers
  - The Rise of Digital Reading Explore Learning Hr Diagram Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Hr Diagram Answers
  - 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 Explore Learning Hr Diagram Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Hr Diagram Answers
  - Personalized Recommendations
  - Explore Learning Hr Diagram Answers User Reviews and Ratings
  - Explore Learning Hr Diagram Answers and Bestseller Lists

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