



Student Exploration: Chemical Equations Activity A & B

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

1. A candle is placed on one pan of a balance, and equal weight is placed on the other pan. What would happen if you lit up the candle and waited for a while?

The candle would eventually burn, thus losing mass and becoming lighter. The pan with the other object would lower as the candle burns.

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

I assume the balance would stay level because the carbon dioxide is trapped within the jar, causing it to retain all of its mass despite the candle burning.

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.



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, meaning are there **equal** numbers of each reactant and product on both sides of the equation?

This equation is not currently balanced.

Activity A:

**Interpreting
chemical
formulas**

Get the Gizmo ready:

- Erase the chemical formulas in each text box.
- Check that the **Visual** displays are selected.



Student Exploration Chemical Equations Answer Key

Ian Pickup



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Simulations and Student Learning Matthew Schnurr, Anna MacLeod, 2021-01-04 The book underlines the value of simulation based education as an approach that fosters authentic engagement and deep learning The Explore-Before-Explain Guidebook for Science Education Patrick Brown, 2025-06-30 This guidebook uses an Explore before Explain instructional sequence to help you facilitate the design of active meaning making lessons in science Author Pat Brown models and breaks down how an Explore before Explain approach ensures students conceptual understandings are constructed primarily on evidence based experiences in the classroom From prompting students to ponder patterns helping them identify cause and effect relationships to focusing on development of their thinking rather than validating ideas you can use Explore before Explain instruction to help your students feel confident in their thinking and become more self directed learners Chapters focus on developing your students conceptual science understanding through the investigation of natural occurrences Content and module examples are provided as well as attention to contemporary standards and safety in science Rather than acting as a prescriptive program however this book adds another element to your curriculum design showing how lessons can and should include critical elements of active sensemaking when designing an Explore before Explain sequence In addition the author shows the benefits of bringing Explore before Explain outside the classroom to create high quality professional and curriculum based learning This resource is ideal for K 12 science teachers as well as building administrators who are looking for a practice oriented and research based approach for their science curriculum As a classroom educator you can use these strategies for leveraging research into hands on minds on activities to promote more robust and equitable learning environments For leaders this resource can be used to develop professional learning experiences for sustained departmental improvement **ENC Focus** ,2001 *The Software Encyclopedia 2000* Bowker Editorial Staff,2000-05 New Horizons in Mathematics and Science Education ,2001 Chemistry John S. Phillips, Cheryl Wistrom,2000 Chemistry in the Community (ChemCom) American Chemical Society,2011-06-17 Touted as the most successful NSF funded project published Chemistry in the Community ChemCom by the American Chemical Society ACS offers a meaningful and memorable chemistry program for all levels of high school students ChemCom covers traditional chemistry topics within the context of societal issues and real world scenarios Centered on decision making activities where students are responsible for generating data in an investigating analyzing that data and then applying their chemistry knowledge to solve the presented problem The text is intensively laboratory based with all 39 of the investigations integrated within the text not separate from the reading With the ChemCom program students learn more organic and biochemistry more environmental and industrial chemistry and more on the particulate nature of matter than other textbooks all within the relevance of solving problems that arise in everyday life Meticulously updated to meet the needs of today s teachers and students the new sixth edition of ChemCom adheres to the new science framework as well as the forthcoming next

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Table of Contents Student Exploration Chemical Equations Answer Key

1. Understanding the eBook Student Exploration Chemical Equations Answer Key
 - The Rise of Digital Reading Student Exploration Chemical Equations Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Chemical Equations Answer Key
 - 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 Student Exploration Chemical Equations Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Chemical Equations Answer Key
 - Personalized Recommendations
 - Student Exploration Chemical Equations Answer Key User Reviews and Ratings
 - Student Exploration Chemical Equations Answer Key and Bestseller Lists
5. Accessing Student Exploration Chemical Equations Answer Key Free and Paid eBooks
 - Student Exploration Chemical Equations Answer Key Public Domain eBooks
 - Student Exploration Chemical Equations Answer Key eBook Subscription Services
 - Student Exploration Chemical Equations Answer Key Budget-Friendly Options

6. Navigating Student Exploration Chemical Equations Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Student Exploration Chemical Equations Answer Key Compatibility with Devices
 - Student Exploration Chemical Equations Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Student Exploration Chemical Equations Answer Key
 - Highlighting and Note-Taking Student Exploration Chemical Equations Answer Key
 - Interactive Elements Student Exploration Chemical Equations Answer Key
8. Staying Engaged with Student Exploration Chemical Equations Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Student Exploration Chemical Equations Answer Key
9. Balancing eBooks and Physical Books Student Exploration Chemical Equations Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Exploration Chemical Equations Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Student Exploration Chemical Equations Answer Key
 - Setting Reading Goals Student Exploration Chemical Equations Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Student Exploration Chemical Equations Answer Key
 - Fact-Checking eBook Content of Student Exploration Chemical Equations Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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