



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.



Teacher Guide Student Exploration Chemical Equations Gizmo

Rajan Keshri



Teacher Guide Student Exploration Chemical Equations Gizmo:

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Jane D. Smith, George R. Hague, 2011 *Balancing Chemical Equations Worksheet* Crispin Collins, 2020-09-12 Struggling with balancing chemical reaction Balancing chemical equations can look intimidating for lot of us The good news is that practice makes perfect Master balancing skill with this workbook packed with hundreds of practice problems This book is for anyone who wants to master the art of balancing chemical reactions First few chapters of this book are step by step explanation of the concepts and other chapters are for practicing problems This book help students develop fluency in balancing chemical equation which provides plenty of practice Methods to solve with the explanation Total of 550 problems to solve with answer key 450 chemical reactions to practice with answer key 100 practice problems that are needed before balancing a chemical reaction with answer key Click the Buy now button to take advantage of this book to help yourself in mastering balancing skill ChemDiscovery Student Guide Olga I. Agapova, 2002 Balancing Chemical Equations Rumi Michael Leigh, 2023-05-22 Do you find yourself struggling to balance chemical equations Are you searching for a comprehensive guide that will help you overcome the challenges of this fundamental skill Look no further Balancing Chemical Equations things you should know questions and answers is here to transform your understanding and proficiency in this crucial aspect of chemistry This book is a practical and engaging resource designed to provide learners of all levels with a solid foundation in balancing chemical equations Whether you re a student a self learner or a passionate science enthusiast this guide will equip you with the essential techniques and strategies required to tackle chemical equations with confidence and precision By actively participating in the exercises you ll develop a deep understanding of the principles and enhance your problem solving abilities Whether you re preparing for an exam aiming to excel in your chemistry coursework or simply eager to master this crucial skill Balancing Chemical Equations things you should know questions and answers is your ultimate companion **Study Guide for Chemical Principles [by] Steven S. Zumdahl** Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples **Determining Chemical Formulas** , 2009-01-01 Inquiries in Science Chemistry Series Determining Chemical Formulas Teacher s Guide *Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry* Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text **Explorations in Conceptual Chemistry** Jeffrey Paradis, John Suchocki, 2010-04 ChemE Balancer Rajan Keshri, 2023-07-25 ChemE Balancer Guide to Balancing Chemical Equations is the ultimate resource for science students seeking to conquer the challenges of balancing chemical equations Whether you are a high school student just beginning

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