

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.



Chemical Equations Activity B Gizmo Answers

L Darling-Hammond



Chemical Equations Activity B Gizmo Answers:

Balancing Chemical Equations Workbook Kraaya Publishing,2021-02-21 Chemical Reactions to Balance Workbook This chemistry balancing equations practice workbook contains 250 non balanced chemical equations Begin with 2 terms problems Work your way up to 6 terms problems This is the perfect workbook to increase chemistry balancing skills for beginners Table of contents How To Balance A Chemical Equation Chemical Equations To Balance Correct Answers Book features Non repetitive equations Include all reactions types synthesis combustion decomposition Use it now and develop instant recall of balancing equations Enjoy the challenge [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 **Chemistry Equations And Answers (Speedy Study Guides)** Speedy Publishing,2015-04-24 Chemistry is a difficult subject to fully comprehend with its equations and scientific laws Trying to digest an entire book in one semester is a tough job but with the help of study guides like these you can absorb information in chemistry much more effectively This guide covers chemical equations including examples potential problems and solutions [Balancing Chemical Equations Worksheets \(Over 200 Reactions to Balance\)](#) Chris McMullen,2016-01-12 Master the art of balancing chemical reactions through examples and practice 10 examples are fully solved step by step with explanations to serve as a guide Over 200 chemical equations provide ample practice Exercises start out easy and grow progressively more challenging and involved Answers to every problem are tabulated at the back of the book A chapter of pre balancing exercises helps develop essential counting skills Opening chapter reviews pertinent concepts and ideas Not just for students Anyone who enjoys math and science puzzles can enjoy the challenge of balancing these chemical reactions **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

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Balancing Chemical Equations ,2009 *Inquiries in Science Chemistry Series Balancing Chemical Equations Teacher s Guide* [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 your chemistry journey or a college student in need of a refresher this comprehensive guide is designed to make the process accessible and easy to understand With its user friendly interface and step by step instructions ChemE Balancer equips you with the knowledge and skills to confidently tackle even the most complex chemical equations Say goodbye to confusion and frustration as you unravel the mysteries of balancing equations with a single click Inside this book you will find 1 Clear Explanations Understand the fundamental principles behind balancing chemical equations through concise and accessible explanations Learn the significance of coefficients and subscripts and how they influence the equation s balance 2 Step by Step Instructions Follow along with detailed step by step instructions that guide you through the process of balancing

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Equations Virginia P. Powell, 1965

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