

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 "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? \_\_\_\_\_ 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? \_\_\_\_\_

# Chemical Equation Explore Learning Gizmo Teacher Guide

**Chris McMullen**

## **Chemical Equation Explore Learning Gizmo Teacher Guide:**

**100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12)** Marcia L. Tate,2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don t Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all

[Chemical Reactions](#) Jacqueline Barber,1998 An ordinary sandwich bag becomes a safe laboratory as students mix chemicals that bubble change color and produce gas heat and odor Students then experiment to determine what causes the heat in this chemical reaction

*The Ultimate Chemical Equations Handbook, Teacher Edition* Jane D. Smith,George R. Hague,2011 [A Balancing Act! How to Balance a Chemical Equation and the Law of Conservation of Mass Grade 6-8 Physical Science](#) Baby Professor,2024-01-04 Explore the intriguing principles of chemical balance with this essential guide perfect for middle school educators homeschooling parents and librarians This book unravels the Law of Conservation of Mass and demystifies the process of balancing chemical equations underscoring their significance in the US STEM curriculum Gain insights into the immutable nature of mass in chemical reactions and master the art of equation balancing to foster a deep understanding of chemical transformations a must have resource for promoting scientific literacy in young learners

**A Balancing Act! How to Balance a Chemical Equation and the Law of Conservation of Mass Grade 6-8 Physical Science** Baby Professor,2024-01-04 Explore the intriguing principles of chemical balance with this essential guide perfect for middle school educators homeschooling parents and librarians This book unravels the Law of Conservation of Mass and demystifies the process of balancing chemical equations underscoring their significance in the US STEM curriculum Gain insights into the immutable nature of mass in chemical reactions and master the art of equation balancing to foster a deep understanding of chemical transformations a must have resource for promoting scientific literacy in young learners [Balancing Chemical Equations](#) ,2009 Inquiries in Science Chemistry Series

Balancing Chemical Equations Teacher's Guide     Science Units for Grades 9-12 Randy L. Bell, Joe Garofalo, 2005 Sample topics include cell division virtual dissection earthquake modeling the Doppler Effect and more     *Partie orientale du comté de Flandre ...*,     **Step By Step Guide - How To Balance Chemical Equations (Quick Review Notes)** E Staff, Step By Step Guide How To Balance Chemical Equations Quick Review Notes Learn and review on the go Use Quick Review Chemistry Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students 24 Pages     **Chemical Reactions Science Learning Guide** NewPath Learning, 2014-03-01 The Chemical Reactions Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Changes of Matter Chemical Reactions Formulas Balancing Equations Types of Chemical Reactions 1 Types of Chemical Reactions 2 Energy in Chemical Reactions Evidence of Chemical Reactions and Chemical Reaction Rates Catalysts Aligned to Next Generation Science Standards NGSS and other state standards     **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     *Take-Home Chemistry* Michael Horton, 2011 For high school science teachers homeschooled science coordinators and informal science educators this collection of 50 inquiry based labs provides hands on ways for students to learn science at home safely Author Michael Horton promises that students who conduct the labs in Take Home Chemistry as supplements to classroom instruction will enhance higher level thinking improve process skills and raise high stakes test scores     **CKSci G7U1 Chemical Reactions and Matter** Core Knowledge Foundation, 2022     **Chemistry Equations & Answers** Speedy Publishing, 2014-08-26 General chemistry inorganic chemistry organic chemistry and biochemistry are all difficult courses requiring much memorization for the student Essentially there is no easy way to learn formulas and facts This is why chemistry classes are such challenges to students even the best ones However a chemistry equations and answers study guide can help the student When used as a quick reference guide it can be used often to determine the formulas needed for various questions The astute student can cleverly devise ways to make the guide useful for test questions or other circumstances requiring one of the many chemistry equations     **Chemistry Equations and Answers (Speedy Study Guides)** Speedy Publishing LLC, 2015-04-23 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     [Chemistry Equations & Answers](#) Pamphlet Master,2014-10-12 This Chemistry Equations Answers study guide is created by Pamphlet Master for students everywhere This tool has a comprehensive variety of college and graduate school topics subjects which can give you what it takes to achieve success not only in school but beyond Included in the pamphlet are Chemical Formula and Equations What is a Chemical Formula Chemical Formula and Equations Subscripts What Is A Balanced Equation How Do We Balance The Equation What About These Halves Examples of Balancing Chemical Equations     **Chemistry Equations & Answers (Speedy Study Guide)** Speedy Publishing LLC,2014-11-19 Chemistry can be one of the more difficult subjects in school mainly because memorization is crucial It can be hard to memorize tons of facts and equations A chemistry equations and answers guide does help students some more than others You can refer to the study guide to determine which formula is suitable to use for the question at hand The more savvy student might consider one or more ways to creatively benefit from the guide For example creating useful tricks to aid you during a challenging test or quiz Chemistry may seem difficult but there are useful study methods     **The Ultimate Chemical Equations Handbook, Student Edition** Jane D. Smith,George R. Hague,2011     **Chemistry Equations and Answers** Mark Jackson,2006-02-22 This 6 page study guide contains basic chemistry analysis and concepts designed specifically to aid science students

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