

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 "H₂+O₂" in the **Reactants** box and "H₂O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.

Reactants	→	Products
H ₂ +O ₂	→	H ₂ O

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? _____

Gizmo Chemical Equations Answer Key

D Siedentop



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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 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 & Answers (Speedy Study Guide)** Speedy Publishing, 2014-11-26 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 **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 *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

Chemical Equations: Chemistry Essentials Practice Workbook with 200+ Reactions to Balance Jake Mariska, 2021-05-08 A chemical equation is something you will encounter every day in chemistry It s a written representation using numbers and symbols of the process that occurs during a chemical reaction 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

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

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Chemical Equations James Nixon Pendlebury, 1972

The Ultimate Chemical Equations Handbook, Teacher Edition Jane D. Smith, George R. Hague, 2011

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