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Gizmo Assignment: Balancing Chemical Equations

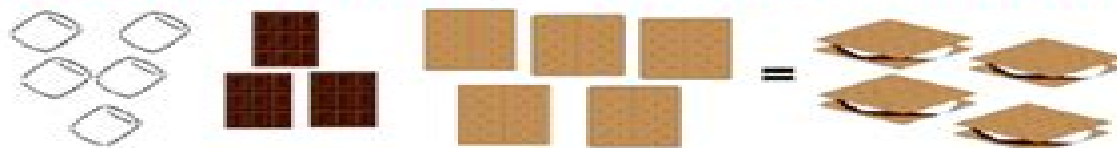
Vocabulary: coefficient, combustion, compound, decomposition, double replacement, element, molecule, product, reactant, single replacement, subscript, synthesis

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

The scouts are making s'mores out of toasted marshmallows, chocolate, and graham crackers.

1. What is wrong with the image below?

The materials do not match up with the s'mores in the end. For example, there are 5 marshmallows, 3 chocolate bars, and 5 graham crackers on one side while in the final picture, 8 graham crackers, 4 marshmallows and 4 chocolate bars were used total.



2. Assuming a s'more requires two graham crackers, one marshmallow, and one piece of chocolate, how many s'mores could you make with the ingredients shown? Only 2 total s'mores, with 3 marshmallows, 1 chocolate bar, and 1 graham cracker left over.

Gizmo Warm-up

In a chemical reaction, **reactants** interact to form **products**. This process is summarized by a chemical equation. In the *Balancing Chemical Equations* Gizmo, look at the floating molecules below the initial reaction: $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$.

- How many atoms are in a hydrogen **molecule** (H_2)? 2
- How many atoms are in an oxygen molecule (O_2)? 2
- How many hydrogen and oxygen atoms are in a water molecule (H_2O)? 3 total (2 hydrogen + 1 oxygen)
- In general, what does a **subscript** (such as the "2" in H_2) tell you about the molecule?



Gizmo Balancing Chemical Equations Answers

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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 *Balancing Chemical Equations* Rumi Michael Leigh, 2023-05-25 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 Balancing Chemical Equations things you should know questions and answers is here to help you understand this 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 *A Balancing Act! How to Balance a Chemical Equation and the Law of Conservation of Mass | Grade 6-8 Physical Science* Baby Professor, 2024-04-15 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 Worksheets \(Over 200 Reactions to Balance\)](#) Chris

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