

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.



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 Answers Explore Learning Chemical Equations

Baby Professor



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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

[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

Adopting the Tune of Term: An Psychological Symphony within **Gizmo Answers Explore Learning Chemical Equations**

In a world taken by displays and the ceaseless chatter of instantaneous transmission, the melodic elegance and psychological symphony produced by the written word frequently diminish into the backdrop, eclipsed by the relentless noise and distractions that permeate our lives. Nevertheless, situated within the pages of **Gizmo Answers Explore Learning Chemical Equations** a marvelous fictional treasure brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this charming masterpiece conducts visitors on a psychological trip, well unraveling the hidden melodies and profound impact resonating within each carefully constructed phrase. Within the depths of this moving review, we can investigate the book is main harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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