

Name: **Kyleen Mitchell**

Date: **11-5-20**

Student Exploration: Balancing Chemical Equations

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

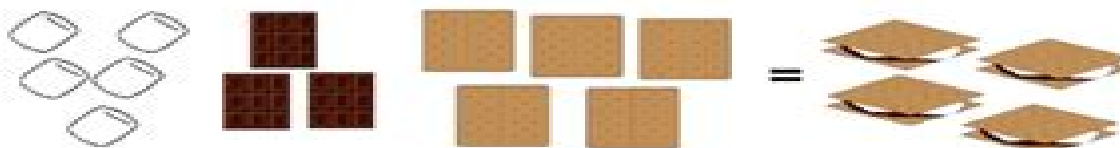
Vocabulary: coefficient, combustion, compound, decomposition, double replacement, element, molecule, product, reactant, single replacement, subscript, synthesis

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?

What is wrong with the image below is that there are too many marshmallows and not enough chocolate and graham crackers.



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?

Assuming a s'more requires two graham crackers, one marshmallow, and one piece of chocolate, you could make 2 s'mores with the ingredients shown.

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: $\text{H}_2 + \text{O}_2 \rightarrow$ H_2O .

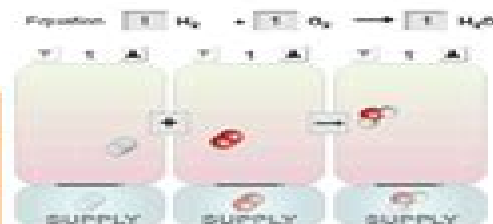
1. How many atoms are in a hydrogen **molecule** (H_2)?
2. How many atoms are in an oxygen molecule (O_2)?
3. How many hydrogen and oxygen atoms are in a water molecule (H_2O)?
4. In general, what does a **subscript** (such as the "2" in H_2) tell you about the molecule?

2

2

3

In general, a subscript like "2" in H_2 tells you that there are 2 H's in that molecule.



Balancing Chemical Equations Gizmo Answers

Zhe Xu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Balancing Chemical Equations Gizmo Answers:

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 Circles James Burke, 2009-11-24 From the bestselling author of The Knowledge Web come fifty mesmerizing journeys into the history of technology each following a chain of consequential events that ends precisely where it began Whether exploring electromagnetic fields the origin of hot chocolate or DNA fingerprinting these essays which originally appeared in James Burke's popular Scientific American column all illustrate the serendipitous and surprisingly circular nature of change In Room with Half a View for instance Burke muses about the partly obscured railway bridge outside his home on the Thames Thinking of the bridge engineer who also built the steamship that laid the first transatlantic telegraph cable causes him to recall Samuel Morse which in turn conjures up Morse's neighbor firearms inventor Sam Colt and his rival Remington One dizzying connection after another leads to Karl Marx's daughter who attended Socialist meetings with a trombonist named Gustav Holst who once lived in the very house that blocks Burke's view of the bridge on the Thames Burke's essays all evolve in this organic manner highlighting the interconnectedness of seemingly unrelated events and innovations Romantic poetry leads to brandy distillation tonic water connects through Leibniz to the first explorers to reach the North Pole Witty instructive and endlessly entertaining Circles expands on the trademark style that has captivated James Burke fans for years This unique collection is sure to stimulate and delight history buffs technophiles and anyone else with a healthy intellectual curiosity *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

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Balancing Chemical Equations Alan Trevor Neuff,1969

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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

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