

Name: Hector CP

Date: 2022/03/11

Gizmo Assignment: Balancing Chemical Equations

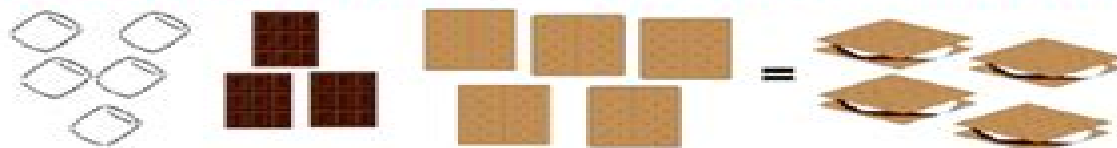
Vocabulary: coefficient, combustion, compound, decomposition, double replacement, element, molecule, product, reactant, single replacement, subscript, synthesis

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?



Explore Learning Balancing Chemical Equations Gizmo

Yijin Wang

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

Explore Learning Balancing Chemical Equations Gizmo:

Explore Learning Balancing Chemical Equations Gizmo Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Explore Learning Balancing Chemical Equations Gizmo**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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