

Name: _____

Date: _____

Student Exploration: Balancing Chemical Equations

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

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? _____



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? _____

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

- A chemical equation is **balanced** if the number of each type of atom on the left side is equal to the number of each type on the right side. Is this reaction balanced? _____

Answers For Student Exploration Chemical Equations Answers

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