

#Jenny



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Cool! I'am really happy

#Markus Jensen



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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

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so many fake sites. this is the first one which worked! Many thanks

ExploreLearning Gizmos™


Name: _____ Date: _____

Student Exploration: Balancing Chemical Equations

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


Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
The foods are making s'mores out of roasted 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: $H_2 + O_2 \rightarrow H_2O$.



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? _____

5. 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? _____

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Chemical Equations Gizmo Teacher Answers