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Gizmo Assignment: Balancing Chemical Equations

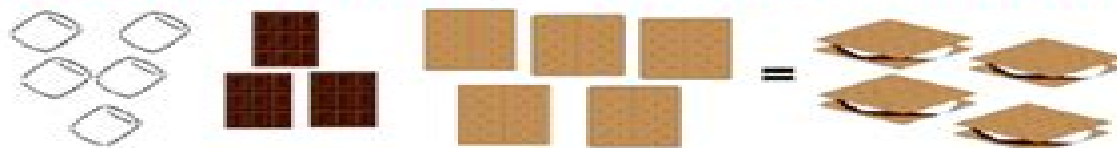
Vocabulary: coefficient, combustion, compound, decomposition, double replacement, element, molecule, product, reactant, single replacement, subscript, synthesis

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?



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Rose Army



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