



Gizmos

Vocabulary: chemical equation, chemical formula, chemical reaction, coefficient, limiting reactant, molecule, product, reactant, subscript

Prior Knowledge Questions (Answer these questions BEFORE using the Gizmo.)

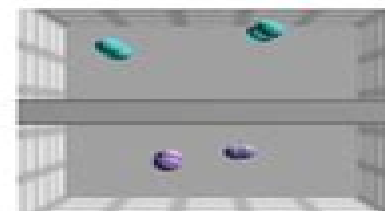
Imagine you and your friends are making hot dogs. A complete hot dog consists of a frankfurter and a bun. At the store, you buy four packages of eight frankfurters and three bags of 10 buns.

1. How many hot dogs can you make? 30
2. Which ingredient limited the number of hot dogs you could make? The buns
3. Which ingredient will you have leftovers of? 2 hot dogs left over


Gizmo Warm-up

Just as ingredients can be put together to make new food items, substances can combine during a **chemical reaction** to produce new substances. The substances that undergo change are called **reactants**. The new substances are **products**.

Sometimes during a chemical reaction, one type of reactant will be used up before the other reactants. This reactant is the **limiting reactant**. Using the *Limiting Reactants Gizmo™*, you can determine which reactant is limiting in various scenarios.



To begin, make sure $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$ is selected. The small "2" in H_2 , O_2 , and H_2O is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

1. Use the sliders to set the number of O_2 molecules and H_2 molecules to 2.
 - A. How many hydrogen molecules (H_2) are there? 2
Hydrogen atoms? 4
 - B. How many oxygen molecules (O_2) are there? 2
Oxygen atoms? 4
2. How many H_2O molecules do you think will form when these 4 molecules react? 2 molecules
3. Click Play (). How many H_2O molecules actually formed? 2 molecules



Limiting Reactant Gizmo Teachers Guide

RJ Shavelson

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.

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