

Name: _____ Date: _____

Student Exploration: Limiting Reactants

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

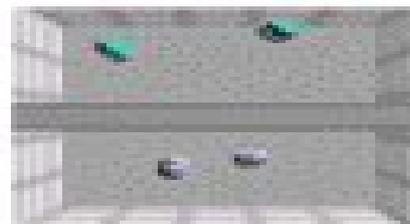
Imagine you and your friends are making hot dogs. A complete hot dog consists of a roller and a bun. At the store, you buy four packages of eight rollers and three bags of 10 buns.

1. How many total hot dogs can you make? _____
2. Which ingredient limited the number of hot dogs you could make? _____
3. Which ingredient will you have leftovers of? _____

Gizmo Warm-up

Just as ingredients can be put together to make a new food, 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 two.
 - A. How many hydrogen molecules (H_2) are there? _____ Hydrogen atoms? _____
 - B. How many oxygen molecules (O_2) are there? _____ Oxygen atoms? _____
2. How many H_2O molecules do you think will form when these four molecules react? _____
3. Click **Play** (▶). How many H_2O molecules actually formed? _____

Limiting Reactants Answer Key

John A. Olmsted, Gregory M. Williams

Limiting Reactants Answer Key:

Whispering the Strategies of Language: An Psychological Journey through **Limiting Reactants Answer Key**

In a digitally-driven earth wherever screens reign great and instant conversation drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within words often get unheard. Yet, located within the pages of **Limiting Reactants Answer Key** a interesting fictional prize sporting with fresh thoughts, lies an exceptional journey waiting to be undertaken. Published by a skilled wordsmith, this charming opus encourages readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles cloth of each word. Within the emotional depths of this poignant evaluation, we can embark upon a honest exploration of the book is core themes, dissect its interesting publishing style, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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