

Name: Date:

Student Exploration: Limiting Reactants

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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 wiener and a bun. At the store, you buy four packages of eight wieners 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 **H₂ + O₂ becomes H₂O** is selected. The small "2" in H₂, O₂, and H₂O is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

1. Use the sliders to set the number of **O₂ molecules** and **H₂ molecules** to two.

A. How many hydrogen molecules (H₂) are there?

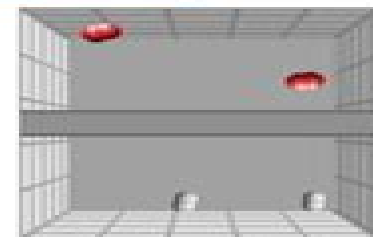
Hydrogen atoms?

B. How many oxygen molecules (O₂) are there?

Oxygen atoms?

2. How many H₂O molecules do you think will form when these four molecules react?

3. Click **Play** (▶). How many H₂O molecules actually formed?



Explore Learning Limiting Reactants Gizmo Answer Key

D Keegan



Explore Learning Limiting Reactants Gizmo Answer Key:

Explore Learning Limiting Reactants Gizmo Answer Key Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Explore Learning Limiting Reactants Gizmo Answer Key**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

https://py.bijouxmedusa.com/data/scholarship/default.aspx/Campbell_Biology_10th_Edition_Fpress.pdf

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