

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?

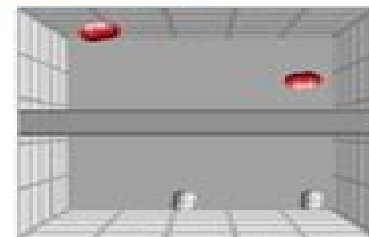
3. Which ingredient will you have leftovers of?

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 **$\text{H}_2 + \text{O}_2$ becomes H_2O** 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 Gizmo Answer Sheet

E Durkheim

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Limiting Reactants Gizmo Answer Sheet:

Decoding **Limiting Reactants Gizmo Answer Sheet**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Limiting Reactants Gizmo Answer Sheet**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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