



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Limiting Reactants

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

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

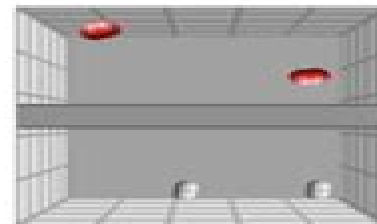
Imagine you and your friends are making hot dogs. A complete hot dog consists of a wiener and a bun. At the store, you buy four packages of eight wieners and three bags of 10 buns.

1. How many total hot dogs can you make? \_\_\_\_\_ you can make 30 hotdogs with single bun and wieners \_\_\_\_\_
2. Which ingredient limited the number of hot dogs you could make? the buns having 30 limited the number of hot dog i can make \_\_\_\_\_
3. Which ingredient will you have leftovers of? i would have leftover of the wieners remaining 2 more. \_\_\_\_\_

### 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  $\text{H}_2\text{O}$ . The small "2" in  $\text{H}_2$ ,  $\text{O}_2$ , and  $\text{H}_2\text{O}$  is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

1. Use the sliders to set the number of  **$\text{O}_2$  molecules** and  **$\text{H}_2$  molecules** to two.
  - A. How many hydrogen molecules ( $\text{H}_2$ ) are there? \_\_\_\_\_ 1 \_\_\_\_\_ Hydrogen atoms? \_\_\_\_\_ 2 \_\_\_\_\_
  - B. How many oxygen molecules ( $\text{O}_2$ ) are there? \_\_\_\_\_ 1 \_\_\_\_\_ Oxygen atoms? \_\_\_\_\_ 2 \_\_\_\_\_
2. How many  $\text{H}_2\text{O}$  molecules do you think will form when these four molecules react? \_\_\_\_\_ 4 \_\_\_\_\_



# Gizmo Limiting Reactants Exploration Guide Answers

**Yijin Wang**

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.

## **Gizmo Limiting Reactants Exploration Guide Answers:**

The book delves into Gizmo Limiting Reactants Exploration Guide Answers. Gizmo Limiting Reactants Exploration Guide Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gizmo Limiting Reactants Exploration Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Gizmo Limiting Reactants Exploration Guide Answers
    - Chapter 2: Essential Elements of Gizmo Limiting Reactants Exploration Guide Answers
    - Chapter 3: Gizmo Limiting Reactants Exploration Guide Answers in Everyday Life
    - Chapter 4: Gizmo Limiting Reactants Exploration Guide Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Gizmo Limiting Reactants Exploration Guide Answers. This chapter will explore what Gizmo Limiting Reactants Exploration Guide Answers is, why Gizmo Limiting Reactants Exploration Guide Answers is vital, and how to effectively learn about Gizmo Limiting Reactants Exploration Guide Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Gizmo Limiting Reactants Exploration Guide Answers. This chapter will elucidate the essential principles that need to be understood to grasp Gizmo Limiting Reactants Exploration Guide Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Gizmo Limiting Reactants Exploration Guide Answers in daily life. This chapter will showcase real-world examples of how Gizmo Limiting Reactants Exploration Guide Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Gizmo Limiting Reactants Exploration Guide Answers in specific contexts. The fourth chapter will explore how Gizmo Limiting Reactants Exploration Guide Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Gizmo Limiting Reactants Exploration Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Limiting Reactants Exploration Guide Answers.

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