

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?

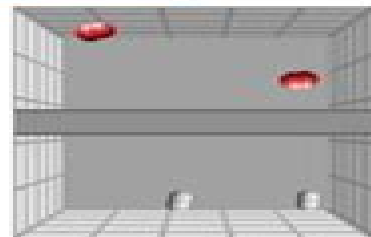
Hydrogen atoms?

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?



Student Exploration Limiting Reactants Answer Sheet

Elizabeth Resnick

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.

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Table of Contents Student Exploration Limiting Reactants Answer Sheet

1. Understanding the eBook Student Exploration Limiting Reactants Answer Sheet
 - The Rise of Digital Reading Student Exploration Limiting Reactants Answer Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Limiting Reactants Answer Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Student Exploration Limiting Reactants Answer Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Limiting Reactants Answer Sheet
 - Personalized Recommendations
 - Student Exploration Limiting Reactants Answer Sheet User Reviews and Ratings
 - Student Exploration Limiting Reactants Answer Sheet and Bestseller Lists
5. Accessing Student Exploration Limiting Reactants Answer Sheet Free and Paid eBooks

- Student Exploration Limiting Reactants Answer Sheet Public Domain eBooks
 - Student Exploration Limiting Reactants Answer Sheet eBook Subscription Services
 - Student Exploration Limiting Reactants Answer Sheet Budget-Friendly Options
6. Navigating Student Exploration Limiting Reactants Answer Sheet eBook Formats
- ePub, PDF, MOBI, and More
 - Student Exploration Limiting Reactants Answer Sheet Compatibility with Devices
 - Student Exploration Limiting Reactants Answer Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Student Exploration Limiting Reactants Answer Sheet
 - Highlighting and Note-Taking Student Exploration Limiting Reactants Answer Sheet
 - Interactive Elements Student Exploration Limiting Reactants Answer Sheet
8. Staying Engaged with Student Exploration Limiting Reactants Answer Sheet
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Student Exploration Limiting Reactants Answer Sheet
9. Balancing eBooks and Physical Books Student Exploration Limiting Reactants Answer Sheet
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Exploration Limiting Reactants Answer Sheet
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Student Exploration Limiting Reactants Answer Sheet
- Setting Reading Goals Student Exploration Limiting Reactants Answer Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Student Exploration Limiting Reactants Answer Sheet
- Fact-Checking eBook Content of Student Exploration Limiting Reactants Answer Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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