

Student Exploration: Limiting Reactants (ANSWER KEY)

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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.

How many total hot dogs can you make? _____

Which ingredient limited the number of hot dogs you could make? __ _____

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**.

Use the sliders to set the number of O_2 molecules and H_2 molecules to two.

How many hydrogen molecules (H_2) are there? _____ Hydrogen atoms? _____

How many oxygen molecules (O_2) are there? _____ Oxygen atoms? _____

How many H_2O molecules do you think will form when these four molecules react? _____

Click **Play** (). How many H_2O molecules actually formed? _____

Activity A: Water reaction	Get the Gizmo ready: • Make sure $\text{H}_2 + \text{O}_2$ becomes H_2O is selected. • Click Reset ().	
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Limiting Reactant Student Exploration Sheet Answer

Liying Dong



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American Society for Engineering Education. Conference, 1994 Bulletin of the Atomic Scientists, 1970-12 The Bulletin of
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Bulletin of the Atomic Scientists, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on
scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's
iconic Doomsday Clock stimulates solutions for a safer world **Limiting Reactant and Percent Yield**, 2019 This lesson
plan covers analyzing chemical reactions in order to determine limiting reactants and excess reactants including calculating
the amount of excess reactant calculate the theoretical yield of a reaction and calculating the percent yield of a reaction

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Table of Contents Limiting Reactant Student Exploration Sheet Answer

1. Understanding the eBook Limiting Reactant Student Exploration Sheet Answer
 - The Rise of Digital Reading Limiting Reactant Student Exploration Sheet Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Limiting Reactant Student Exploration Sheet Answer
 - 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 Limiting Reactant Student Exploration Sheet Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Limiting Reactant Student Exploration Sheet Answer
 - Personalized Recommendations
 - Limiting Reactant Student Exploration Sheet Answer User Reviews and Ratings
 - Limiting Reactant Student Exploration Sheet Answer and Bestseller Lists
5. Accessing Limiting Reactant Student Exploration Sheet Answer Free and Paid eBooks
 - Limiting Reactant Student Exploration Sheet Answer Public Domain eBooks
 - Limiting Reactant Student Exploration Sheet Answer eBook Subscription Services
 - Limiting Reactant Student Exploration Sheet Answer Budget-Friendly Options

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