



Name: Chelsey Williams Date: 3/31/22

Student Exploration: Stoichiometry

Vocabulary: Avogadro's number, balanced equation, cancel, coefficient, conversion factor, dimensional analysis, formula mass, molar mass, mole, molecular mass, stoichiometry

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

1. A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? 176 grams
2. It requires two sticks of butter to make a batch of 20 cookies. How much butter will it take to make 150 cookies? 15 sticks of butter

Gizmo Warm-up

Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The Stoichiometry Gizmo allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:



1. Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:

Fe_2O_3 1

CO 3

Fe 2

CO_2 3

2. In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).

New equation



New question

How many moles of carbon monoxide (CO) are required to react completely with 1.75 moles of iron (III) oxide (Fe_2O_3)?

Problems solved: 0



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Thomas Griffiths

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 Apply Stoichiometry Lab Answer Key

1. Understanding the eBook Apply Stoichiometry Lab Answer Key
 - The Rise of Digital Reading Apply Stoichiometry Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Apply Stoichiometry Lab Answer Key
 - 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 Apply Stoichiometry Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Apply Stoichiometry Lab Answer Key
 - Personalized Recommendations
 - Apply Stoichiometry Lab Answer Key User Reviews and Ratings
 - Apply Stoichiometry Lab Answer Key and Bestseller Lists

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