

Name: _____

Date: _____

Period: _____

S'mores Stoichiometry Lab



Introduction:

In this experiment, you will explore the principles of stoichiometry by building S'mores, the delicious, chocolate, marshmallow, and graham cracker treats.

Definitions: 'Stoichio' means element and 'metry' means the process of measuring. The mass and quantity relationships among reactants and products in a reaction are found using the process of stoichiometry.

Purpose:

To determine the limiting reactant in the synthesis of S'mores.

Prelab Questions:

1. What does a chemical equation tell us?
2. What do the coefficients in a balanced chemical equation represent?

Materials:

Miniature Chocolate bars
Marshmallows
Bunsen Burner

Graham cracker Square
Paper Towels
Wooden skewers

Reference Data:

| Substance | Symbol | Unit mass | Package Mass |
|-------------------------|--------|-----------|--------------|
| Graham Cracker Squares | Gr | 8.50 g | 408 g |
| Marshmallow | Mm | 7.125 g | 285 g |
| Miniature Chocolate Bar | Ch | 12.00 g | 348 g |

** for the purposes of this lab the UNIT mass and MOLAR mass are the same thing

Procedure:

1. Perform a synthesis reaction (forming ~~one~~ s'more). For this lab, we will consider a s'more to consist of 2 graham cracker squares, 1 marshmallow and 1 miniature chocolate bar.
 - a) Determine the formula for a s'more
 - b) write the balanced chemical equation using the symbols above
 - c) According to the balanced equation complete the following ratios:

| | |
|---------------------|-------------------------|
| _____ Gr = _____ Mm | _____ Gr = _____ S'more |
| _____ Ch = _____ Mm | _____ Mm = _____ S'more |
| _____ Ch = _____ Gr | _____ Ch = _____ S'more |
2. Calculating the unit mass of the s'more.
 - a) Calculate the mass on ONE s'more.
 - b) Is there a relationship between the mass of a S'more and the masses of the reactants used to make it?
 - c) If so, what is the relationship?
 - d) What law have you studied in this course that might define this relationship?
3. Predicting the limiting reactant:
 - a) Complete the data table below based on the materials provided for your group.

| Substance | Quantity received | # of S'mores it COULD make |
|-------------------------|-------------------|----------------------------|
| Graham Cracker Squares | | |
| Marshmallow | | |
| Miniature Chocolate Bar | | |
 - b) What will the limiting reactant be?
 - c) How many of the other substances will remain
 - d) What are the masses of each excess reactant that will remain once the reaction is complete?

Apply Stoichiometry Lab Answer Key

Jeffrey Glen Yoder

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

Apply Stoichiometry Lab Answer Key:

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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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