

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

Tracy Lynn Haroff

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.

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Multimedia Technology in Chemistry Pre-laboratory Preparation Jeffrey Glen Yoder,2002 **ERDA Energy Research Abstracts** ,1977 Laboratory Manual to Accompany Chemistry, [by] Stanley R. Radcliff, Marjorie H. Navidi

Arthur D. Baker,1990 Catalog Pikes Peak Community College,2016 *A Stoichiometry Unit* David Callaghan,2004

Modern Experiments for Introductory College Chemistry Howard A. Neidig,William Franklin Kieffer,1967

Application of Accelerators in Research and Industry Jerome L. Duggan,Ira L. Morgan,2003-10-21 These papers were peer reviewed before publication This conference covers the use of particle accelerators in research and industry The research applications include basic atomic and nuclear physics studies with ion beams of energies less than 10 million volts The applications include the use of ion beams for the analysis of materials In the proceedings experiments are outlined for Rutherford Backscattering analysis particle induced x ray emission nuclear reaction analysis and neutron activation analysis There are also sessions devoted to accelerator technology and the development of new spectrometers and detectors The meeting also covers radiation processing with electron beams These topics include cross linking sterilization of medical disposables and food preservation by radiation The conference also includes a medical symposium on the production and use of medical radioisotopes and a symposium on ion implantation primarily for the semiconductor industry **Iterations** John W. Moore,1981 The Science of Engineering Ceramics III Tatsuki Ohji,Tohru Sekino,Koichi Niihara,2006-08-15 EnCera04 Proceedings of the 3rd International Symposium on the Science of Engineering Ceramics EnCera 04 in Conjunction with the 12th International Seminar on Core University Program CUP between Japan and Korea October 31 November 3 2004 Osaka Japan **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977

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