

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## 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

Graham cracker Square

Marshmallows

Paper Towels

Bunsen Burner

Wooden skewers

**Reference Data:**

Substance	Symbol	Unit mass	Package Mass
Graham Cracker Squares	Gr	8.50 g	403 g
Marshmallow	Mm	7.125 g	285 g
Miniature Chocolate Bar	Ch	12.00 g	343 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:

$$\begin{array}{rcl}
 \text{Gr} = & \text{Mm} & \text{Gr} = \text{S'more} \\
 \hline
 \text{Ch} = & \text{Mm} & \text{Mm} = \text{S'more} \\
 \hline
 \text{Ch} = & \text{Gr} & \text{Ch} = \text{S'more}
 \end{array}$$

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**

## Apply Stoichiometry Lab Answer Key:

**Resources in Education**, 1980    **Improving Student Comprehension of Stoichiometric Concepts** Connie Lynn Bannick Kemner,2007    Improving Student Comprehension in Chemistry Laboratories Tracy Lynn Haroff,2006    **Using Multimedia Technology in Chemistry Pre-laboratory Preparation** Jeffrey Glen Yoder,2002    **ERDA Energy Research Abstracts**, 1977    Laboratory Manual to Accompany Chemistry, [by] Stanley R. Radel, 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 Sympsoium 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

**ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center,1977    **The Science Teacher**, 1994    **The Software Encyclopedia**, 1988    **EPA Publications Bibliography, 1984-1990: Report summaries** United States. Environmental Protection Agency,1990    **Government Reports Announcements & Index**, 1983    Energy Research Abstracts, 1989 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

**Environment Abstracts**, 1979

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