

# Chapter-4

## Reaction Stoichiometry

- Stoichiometry is the study of the quantitative relationships between amounts of reactants used and amounts of products formed by a chemical reaction.
  - Chemical equations
  - The mole and molar mass
  - Chemical formulas
  - Mass relationships in equations
  - Limiting reactant

1

### 4.1. Interpreting Stoichiometric Coefficients

$4\text{Fe(s)} + 3\text{O}_2\text{(g)}$	$\rightarrow$	$2\text{Fe}_2\text{O}_3\text{(s)}$
Iron + oxygen	$\rightarrow$	Iron (III) oxide
4 atoms of Fe + 3 molecules of $\text{O}_2$	$\rightarrow$	2 formula units of $\text{Fe}_2\text{O}_3$
4 mol of Fe + 3 mol of $\text{O}_2$	$\rightarrow$	2 mol $\text{Fe}_2\text{O}_3$
223.4 g of Fe + 96 g of $\text{O}_2$	$\rightarrow$	319.4 g of $\text{Fe}_2\text{O}_3$
319.4 g reactants	$\rightarrow$	319.4 g products

- The chemical equation does not directly tell you anything about the masses of reactants and products. However, by converting the known mole quantities to mass.
  - Moles are converted to mass by multiplying their molar mass

$$4 \text{ mol Fe} \times \frac{55.85 \text{ g Fe}}{1 \text{ mol Fe}} = 223.4 \text{ g Fe}$$

# Reaction Stoichiometry Lab Answers

**Dennis W. Sunal, Cynthia Szymanski  
Sunal, Emmett L. Wright, Cheryl L.  
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*Optimizing STEM Education With Advanced ICTs and Simulations* Levin, Ilya, Tsybulsky, Dina, 2017-06-05 The role of technology in educational settings has become increasingly prominent in recent years When utilized effectively these tools provide a higher quality of learning for students *Optimizing STEM Education With Advanced ICTs and Simulations* is an innovative reference source for the latest scholarly research on the integration of digital tools for enhanced STEM based learning environments Highlighting a range of pivotal topics such as mobile games virtual labs and participatory simulations this publication is ideally designed for educators professionals academics and students seeking material on emerging educational technologies

**Research Based Undergraduate Science Teaching** Dennis W. Sunal, Cynthia Szymanski Sunal, Emmett L. Wright, Cheryl L. Mason, Dean Zollman, 2014-07-08 RISE Volume 6 examines research theory and practice in teaching undergraduate science It focuses on developing science literacy and best practices for faculty professional development The volume includes research on reforming science courses and supporting underrepresented groups in STEM education

*Stoichiometry Unit Project* Luann Marie Decker, 1998

**Experimental Chemistry** Russell A. Geanangel, Wesley William Wendlandt, 1979-08

**Instructors Manual to Lab Manual** Ralph Petrucci, William Harwood, Geoffrey Herring, 2001

Chemistry: Molecules, Matter, and Change Media Activities Book Loretta Jones, Carl Hoeger, Peter William Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begin with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs

**Laboratory Experiments for General Chemistry** Harold R. Hunt, Toby F. Block, George M. McKelvy, 2002 This established manual focuses on using non hazardous materials to teach the experimental nature of general chemistry Experiments are written to address students of various academic backgrounds and differing interests and abilities in chemistry While most experiments can be conducted in a single three hour period some have been designed to be completed over an extended time to illustrate that chemical systems do not work at an arbitrary schedule Suggestions are provided for combining experiments of shorter length and similar pedagogy

**Inventory of U.S. Greenhouse Gas Emissions and Sinks**, 1998 Fiscal Year 2001 Climate Change Budget Authorization Request United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 2001

Using Multimedia Technology in Chemistry Pre-laboratory Preparation Jeffrey Glen Yoder, 2002

**Improving Student Comprehension in Chemistry Laboratories** Tracy Lynn Haroff, 2006

**A Concrete Stoichiometry Unit for High School Chemistry** Jennifer Louise Pakkala, 2006

**Chemical Investigations** Nancy Konigsberg Kerner, 1986

**The Software Encyclopedia 2001**, 2001

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*Reactions* Kenneth L. Henold, Frank Walmsley, 1984     **Chemistry** James E. Brady, John R. Holum, 1995-12-29 Offers  
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