

Chemistry – Unit 5 Worksheet 1

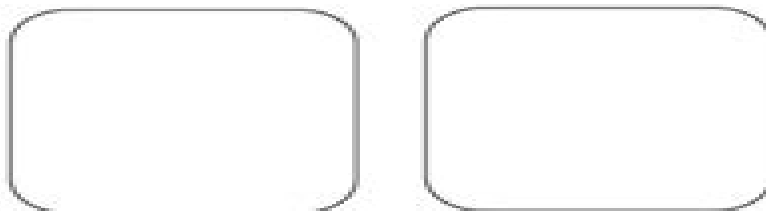
Molar Masses of the Elements

Relative Mass From Gases

We have established that the combining ratio of gases can be explained if two assumptions are made:

1. Equal volumes of gases contain the same number of molecules at the same pressure and temperature.
2. Some pure elemental gases are clustered into pairs to form diatomic molecules.

Use these assumptions and particle diagrams to explain the fact that the density of oxygen gas at standard temperature and pressure is 1.43 g/liter, whereas the density of hydrogen gas under these conditions is 0.089 g/liter. How many times more massive is one molecule of oxygen than one molecule of hydrogen?



You shouldn't conclude that chemists were able to determine the molar masses of all the elements using this technique. Measurements of the density of the gaseous phase of many of the elements are difficult, if not impossible. However, we are going to see that chemists could use another tool – the *percent composition of compounds* to determine molar masses.

Relative Mass From Compounds

Many substances combine with oxygen to form a type of compound called an oxide. In the previous unit we saw that such combinations often occur in multiple proportions. John Dalton made the assumption that the lowest ratio was a 1:1 combination of elements. For now, we will make a similar assumption. *We may have to re-examine this assumption later.*

In Unit 4 you examined % composition data of several compounds. For example, 100 g of the simplest oxide of carbon contains 42.9g of C and 57.1 g of O. To be able to compare masses of elements to the mass of oxygen, it is important to use the same mass of oxygen in all of the ratios. Using a proportion, one can show that 75.0 g of C combines with 100 g of oxygen.

$$\frac{42.9\text{gC}}{57.1\text{gO}} = \frac{75.0\text{gC}}{100\text{gO}}$$

Modeling Chemistry Unit 1

University of Wisconsin

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the University of Wisconsin text.

Modeling Chemistry Unit 1:

Connecting Self-regulated Learning and Performance with Instruction Across High School Content Areas Maria K. DiBenedetto, 2018-07-23 This book shows how principles of self regulated learning are being implemented in secondary classrooms The 14 chapters are theoretically driven and supported by empirical research and address all common high school content areas The book comprises 29 lesson plans in English language arts natural and physical sciences social studies mathematics foreign language art music health and physical education Additionally the chapters address students with special needs technology and homework Each chapter begins with one or more lesson plans written by master teachers followed by narratives explaining how the lesson plans were implemented The chapters conclude with an analysis written by expert researchers of the self regulated learning elements in the lessons Each lesson and each analysis incorporate relevant educational standards for that area Different types of high schools in several states serve as venues This powerful new book edited by Maria K DiBenedetto provides a unique and invaluable resource for both secondary teachers and researchers committed to supporting adolescents in the development of academic self regulation Each chapter is jointly written by teachers who provide a wealth of materials including lesson plans and researchers who situate these lesson plans and academic self regulation goals within the larger work on self regulation The topics covered are far broader than any other book I have seen in terms of developing academic self regulation covering over a dozen content areas including literacy mathematics social studies the sciences and the arts Teachers and scholars alike will find this book a must read Karen Harris EdD Arizona State University A practical and magnificent blend of educational research and application This book goes beyond presenting the findings of research on self regulation by connecting detailed strategies that align with the standards to the research DiBenedetto et al clearly illustrate how to develop self regulated learners in the classroom A refreshing must read for all secondary educators and educational researchers seeking to be well grounded in education research and practical application techniques Heather Brookman PhD Fusion Academy Park Avenue Self regulated learning is a research based process by which teachers help students realize their own role in the learning process Connecting Self Regulated Learning and Performance with Instruction Across High School Content Areas consists of model teachers lessons and analyses by prominent educational psychologists in the field of self regulated learning The book provides teachers with the tools needed to increase students awareness of learning and inspires all educators to use self regulated learning to promote engagement motivation and achievement in their students The book also provides administrators with the principles needed to infuse evidenced based self regulated learning into their curriculum and instruction I highly recommend the book Marty Richburg Northside High School

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Alternative Resources: Targeting Green Fuels and Platform Chemicals Sonil Nanda,Dai-Viet N. Vo,Prakash Kumar Sarangi,2020-03-31 This book summarizes recent advances in the processing of waste biomass resources to produce biofuels and biochemicals Worldwide interest in clean energy sources environmental protection and mitigating global warming is rapidly gaining momentum and spurring on the search for alternative energy sources especially for the transportation and industrial sectors This book reviews the opportunities presented by low cost organic waste materials discussing their suitability for alternative fuel and fine chemical production physicochemical characterization conversion technologies feedstock and fuel chemistry refining technologies fuel upgrading residue management and the circular economy In addition it explores applied aspects of biomass conversion by highlighting several significant thermochemical hydrothermal and biological technologies In summary the book offers comprehensive and representative descriptions of key fuel processing technologies energy conversion and management waste valorization eco friendly waste remediation biomass supply chain lifecycle assessment techno economic analysis and the circular bioeconomy *Energy Research Abstracts* ,1985

Shreir's Corrosion ,2009-02-27 This four volume reference work builds upon the success of past editions of Elsevier s Corrosion title by Shreir Jarman and Burstein covering the range of innovations and applications that have emerged in the years since its publication Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester Shreir s Corrosion meets the research and productivity needs of engineers consultants and researchers alike Incorporates coverage of all aspects of the corrosion phenomenon from the science behind corrosion of metallic and non metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting edge topics such as medical applications metal matrix composites and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy *Field Trip Guidebooks* ,2009 *Drake University General Catalog* Drake University,1915 **Catalogue and Announcements**

University of Minnesota,1918 **Annual Register** ,1918 **Timetable** University of Illinois at Urbana-Champaign,2003

Pearson's Magazine ,1921 Pearson s Magazine 1899 1925 a monthly magazine devoted to literature politics and the arts was founded as a New York affiliate of the London periodical of the same name part of which it reprinted From 1916 to 1923 it was edited by Frank Harris *General Announcement of Courses ... (catalog)*. University of Wisconsin,1908

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Table of Contents Modeling Chemistry Unit 1

1. Understanding the eBook Modeling Chemistry Unit 1
 - The Rise of Digital Reading Modeling Chemistry Unit 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Chemistry Unit 1
 - 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 Modeling Chemistry Unit 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Chemistry Unit 1
 - Personalized Recommendations
 - Modeling Chemistry Unit 1 User Reviews and Ratings
 - Modeling Chemistry Unit 1 and Bestseller Lists
5. Accessing Modeling Chemistry Unit 1 Free and Paid eBooks

- Modeling Chemistry Unit 1 Public Domain eBooks
- Modeling Chemistry Unit 1 eBook Subscription Services
- Modeling Chemistry Unit 1 Budget-Friendly Options
- 6. Navigating Modeling Chemistry Unit 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling Chemistry Unit 1 Compatibility with Devices
 - Modeling Chemistry Unit 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling Chemistry Unit 1
 - Highlighting and Note-Taking Modeling Chemistry Unit 1
 - Interactive Elements Modeling Chemistry Unit 1
- 8. Staying Engaged with Modeling Chemistry Unit 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modeling Chemistry Unit 1
- 9. Balancing eBooks and Physical Books Modeling Chemistry Unit 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling Chemistry Unit 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling Chemistry Unit 1
 - Setting Reading Goals Modeling Chemistry Unit 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling Chemistry Unit 1
 - Fact-Checking eBook Content of Modeling Chemistry Unit 1
 - 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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