

# Stoichiometry "End of Chapter" IN CLASS Practice Assessment

## Background Info -

- Why are the coefficients in a balanced equation necessary for stoichiometry?  
Coefficients are necessary for establishing a molar/mole ratio to convert between moles of different substances.

**Skill 1** - Using a balanced equation, calculate using mole to mole ratios. Use a balanced equation, given the grams of reactant, calc. the grams of product.

- Consider the following unbalanced equation:



There are 5.56g of manganese(IV) oxide present, calculate the grams of chlorine gas.

$$5.00\text{g MnO}_2 \times \frac{1\text{mol MnO}_2}{86.94\text{g MnO}_2} \times \frac{1\text{mol Cl}_2}{1\text{mol MnO}_2} \times \frac{70.90\text{g Cl}_2}{1\text{mol Cl}_2} = 4.00\text{g Cl}_2$$

**Skill 2** - After calculating theoretical yield in grams, calculate the percent yield.

- You are assigned to complete a lab. Before the reaction is complete, you calculate that a reaction should produce 4.0g Cu(s). After the lab is over you find that 2.8g Cu(s) was collected. What would the percent yield be for that reaction completed within the lab?

$$\% \text{yield} = \left[ \frac{\text{actual/theoretical}}{1} \right] \times 100 \\ = \left[ \frac{2.8\text{g}/4.0\text{g}}{1} \right] \times 100 = 70\%$$

**Skill 3** - Given experimental data, determine the limiting reactant and the excess reactant.

- Calcium carbonate combines with gaseous hydrogen chloride to produce solid calcium chloride, gaseous carbon dioxide, and water vapor. What is the percent yield if 155g of calcium carbonate combines with 250.0g of hydrogen chloride and only 142.0g of calcium chloride is actually obtained within the lab setting? Complete and show work for all 3 steps of a stoichiometry problem.



$$155\text{g CaCO}_3 \times \frac{1\text{mol CaCO}_3}{100.09\text{g CaCO}_3} = 1.55\text{mol CaCO}_3 \quad \text{L.R.} \\ 1.55\text{mol CaCO}_3 \times \frac{1\text{mol CaCl}_2}{1\text{mol CaCO}_3} = 1.55\text{mol CaCl}_2$$

$$250\text{g HCl} \times \frac{1\text{mol HCl}}{36.458\text{g HCl}} = 6.857\text{mol HCl} \quad \text{E.R.} \\ 6.857\text{mol HCl} \times \frac{1\text{mol CaCl}_2}{2\text{mol HCl}} = 3.43\text{mol CaCl}_2$$

$$1.55\text{mol CaCO}_3 \times \left( \frac{1\text{mol CaCl}_2}{1\text{mol CaCO}_3} \right) \times \left( \frac{110.98\text{g CaCl}_2}{1\text{mol CaCl}_2} \right) = 172.02\text{g}$$

$$\% \text{yield} = \left[ \frac{\text{actual/theoretical}}{1} \right] \times 100 \\ = \left[ \frac{142.0\text{g}/172.02\text{g}}{1} \right] \times 100 = 82.55\%$$

# Stoichiometry Assessment Answers

**Amy Driscoll, Swarup Wood, Dan  
Shapiro, Nelson Graff**



## **Stoichiometry Assessment Answers:**

*Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual* Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's *Basic Concepts of Chemistry* provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter. *Resources in Education*, 1995

**Advancing Assessment for Student Success** Amy Driscoll, Swarup Wood, Dan Shapiro, Nelson Graff, 2023-07-03 This book is about student success and how to support and improve it. It takes as its point of departure that we as faculty, assessment directors, student affairs professionals, and staff reflect together in a purposeful and informed way about how our teaching, curricula, the co-curriculum, and assessment work in concert to support and improve student learning and success. It also requires that we do so in collaboration with our colleagues and our students for the rich insights that we gain from them. Conversational in style, this book offers a wide variety of illustrations of how your peers are putting assessment into practice in ways that are meaningful to them and their institutions and that lead to improved student learning. The authors provide rich guidance for activities ranging from everyday classroom teaching and assessment to using assessment to improve programs and entire institutions. The authors envisage individual faculty at four-year institutions and community colleges as their main audience, whether those faculty are focused on their own classes or support their colleagues through leadership roles in assessment. If you plan to remain focused on your own courses and students, you will find that those sections of this book will help you better understand why and how assessment leaders do what they do, which in turn will make your participation in assessment more engaging and increase your expertise in facilitating student learning. Because the authors also aim to strengthen connections between the curriculum and co-curriculum and include examples of co-curricular assessment, student affairs professionals and staff interested in doing the same will also find ideas in this book relevant to their work. Opening with a chapter on equity in assessment practice so critical to learning from and benefitting our diverse students, the authors guide you through the development and use of learning outcomes, the design of assignments with attention to clear prompts and rubrics, and the achievement of alignment and coherence in pedagogy, curriculum, and assessment to better support student engagement.

achievement and success The chapter on using student evidence for improvement offers support resources and recommendations for doing so and demonstrates exciting uses of student wisdom The book concludes by emphasizing the importance of reflection in assessment practices offering powerful examples and strategies for professional development and by describing appropriate creative and effective approaches for communicating assessment information with attention to purpose and audience

**Improving Student Comprehension of Stoichiometric Concepts** Connie Lynn Bannick Kemner, 2007

[Class 11-12 Chemistry MCQ \(Multiple Choice Questions\)](#) Arshad Iqbal, 2019-05-17

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**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

Proceedings of the 4th International Conference on Innovation in Education, Science and Culture, ICIESC 2022, 11 October 2022, Medan, Indonesia Baharuddin,Hesti Fibriasari,Juniastel Rajagukguk,2022-12-22 We are delighted to present the Proceedings of the 4th International Conference on Innovation in Education Science and Culture ICIESC that organized by Research and Community Service Centre of Universitas Negeri Medan LPPM UNIMED Proceedings of the 4th ICIESC contains several papers that have presented at the seminar with theme Education and Science in time of uncertainty

Recovering for the Future This conference was held on 11 October 2022 virtually and become a routine agenda annually The 4th ICIESC was realized this year with various presenters lecturers researchers and students from universities both in and out of Indonesia The 4th International Conference on Innovation in Education Science and Culture ICIESC 2022 shows up as a Mathematics and Natural Science Material Science Physics Education Biology Education Chemistry Education Vocational Education Applied Sciences Computers Multimedia Technology Applied Mathematics E learning system Applied Sciences Information Technology Applied Sciences Engineering Social Science and Humanities Management Innovation and Heritage Culture research platform to gather presentations and discussions of recent achievements by leading researchers in academic research With the number participants 260 participants who came from the various national and international universities member research institute and academicians There are 181 papers passed through rigorous reviews process and accepted by the committee All of papers reflect the conference scopes and become the latest trend It has been our privilege to convene this conference Our sincere thanks to the conference organizing committee to the Program Chairs for their wise advice and brilliant suggestion on organizing the technical program and to the Program Committee for their thorough and timely reviewing of the papers Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities We welcome you to read this proceeding and hope the reader can find according to your interests and scientific field

*Chemistry for the IB Diploma* Geoff Neuss, 2001 This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level It follows the structure of the IB Programme exactly and includes all the options Each topic is presented on its own page for clarity Higher Level material is clearly indicated and there are plenty of practice questions The text is written with an awareness that English might not be the reader's first language

**Programmed Topics in General Chemistry** Armine D. Paul, 1971 Resources in Education, 1995 Multiple Solution Methods for Teaching Science in the Classroom Stephen DeMeo, 2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare

evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving

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