

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 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.



$$155\text{g CaCO}_3 \times \frac{1\text{mol CaCO}_3}{100.09\text{g CaCO}_3} = 1.55\text{mol CaCO}_3 \quad \text{L.R.} \\ 1.55\text{mol} \\ 250\text{g HCl} \times \frac{1\text{mol HCl}}{36.458\text{g HCl}} = 6.857\text{mol HCl} \quad \text{2mol in rxn} = 3.43\text{mol}$$

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

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

Unit 7 Stoichiometry Review

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Unit 7 Stoichiometry Review:

Reviews in Fluorescence 2016 Chris D. Geddes, 2017-02-13 *Reviews in Fluorescence 2016* the tenth volume of the book series from Springer serves as a comprehensive collection of current trends and emerging hot topics in the field of fluorescence and closely related disciplines It summarizes the year's progress in fluorescence and its applications with authoritative reviews specialized enough to be attractive to professional researchers yet also appealing to the wider audience of scientists in related disciplines of fluorescence *Reviews in Fluorescence* offers an essential reference material for any research lab or company working in the fluorescence field and related areas All academics bench scientists and industry professionals wishing to take advantage of the latest and greatest in the continuously emerging field of fluorescence will find it an invaluable resource

Reviews of Physiology, Biochemistry and Pharmacology, 2007-05-02 H Wegele L M Iler and J Buchner Hsp70 and Hsp90 A Relay Team for Protein Folding R Schlein The Early Stages of the Intracellular Transport of Membrane Proteins Clinical and Pharmacological Implications L Schild The Epithelial Sodium Channel From Molecule to Disease Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 Nuclear Science Abstracts, 1972

Annual Review of Biophysics and Biophysical Chemistry Donald M. Engelman, 1987 **Annual Review of Biophysics and Biophysical Chemistry**, 1991 *Resources in Education*, 1980-04 **Biochemical Journal Reviews 1993** W. H. Evans, A. E. Pegg, 1994-04-30 This compendium contains the review articles published in the *Biochemical Review* in 1993 The reviews provide the opportunity for research workers to gain an overview of the areas outside their own particular speciality and the compilation is also an important source of teaching material The reviews fall into seven sections gene structure and expression cell biology and development proteins receptors and signal transductions membranes and bioenergetics regulation of metabolism carbohydrates and lipids *Product and Process Design* Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2018-05-22 *Product and Process Design Driving Innovation* is a comprehensive textbook for students and industrial professionals It treats the combined design of innovative products and their innovative manufacturing processes providing specific methods for BSc MSc PDEng and PhD courses Students industrial innovators and managers are guided through all design steps in all innovation stages discovery concept feasibility development detailed engineering and implementation to successfully obtain novel products and their novel processes The authors decades of innovation experience in industry as well as in teaching BSc MSc and post academic product and process design courses thereby including the latest design publications culminate in this book *Annual Review of Materials Science* Robert A. Huggins, 1992 Provides abstracts and full text to articles on materials science **Annual Review of Biochemistry** E. E. Snell, 1983 *Energy Research Abstracts*, 1989 **Advances in Scanning Probe Microscopy** T. Sakurai, Y. Watanabe, 2012-12-06 There have been many books published on scanning tunneling microscopy STM atomic force microscopy AFM and related subjects since Dr Cerd Binnig and Dr Heinrich Rohrer invented STM in 1982 and AFM in 1986 at IBM Research Center in Zurich

Switzerland These two techniques STM and AFM now form the core of what has come to be called the scanning probe microscopy SPM family SPM is not just the most powerful microscope for scientists to image atoms on surfaces but is also becoming an indispensable tool for manipulating atoms and molecules to construct man made materials and devices Its impact has been felt in various fields from surface physics and chemistry to nano mechanics nano electronics and medical science Its influence will surely extend further as the years go by beyond the reach of our present imagination and new research applications will continue to emerge This book therefore is not intended to be a comprehensive review or textbook on SPM Its aim is to cover only a selected part of the active research fields of SPM and related topics in which I have been directly involved over the years These include the basic principles of STM and AFM and their applications to fullerene film growth SiC surface reconstructions MBE molecular beam epitaxy growth of CaAs atomic scale manipulation of Si surfaces and mesoscopic work function

Comprehensive Energy Systems Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

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Cumulated Index Medicus, 1987 *Pp/Chemistry* BarCharts, Inc., 2008-06-18 **CHEMISTRY** SILBERBERG, 2003 Annual Review of Physiology Joseph F.. Hoffman, Paul De Weer, 1999

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