

Study Guide Section 11.2 Stoichiometric Calculations

Key Concepts

- Chemists use stoichiometric calculations to predict the amounts of reactants used and products formed in specific reactions.
- The first step in solving stoichiometric problems is writing the balanced chemical equation.
- Mole ratios derived from the balanced chemical equation are used in stoichiometric calculations.
- Stoichiometric problems make use of mole ratios to convert between mass and moles.



Stoichiometric Calculations Study Guide For Content Mastery

Neil D. Jespersen, Alison Hyslop



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Ebook: Chemistry Julia Burdge, 2014-10-16 Chemistry Third Edition by Julia Burdge offers a clear writing style written with the students in mind Julia uses her background of teaching hundreds of general chemistry students per year and creates content to offer more detailed explanation on areas where she knows they have problems With outstanding art a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems this is a great third edition text Prentice Hall Chemistry, 2000 **Review of Metal Literature** American Society for Metals, 1966 *Programmed Topics in General Chemistry* Armine D. Paul, 1971 Ceramic Abstracts American Ceramic Society, 1992 *Chemical Calculations: an Educational Study of Stoichiometric Calculations in Secondary School Chemistry* Onno de Jong, 1990 **Stoichiometric Calculations** Lifeliqe, 2019 This lesson plan covers how to calculate moles and volume ratios for balanced chemical equations *Formulation and Stoichiometry* Emil J. Margolis, 2012-12-06 The purpose of this book is to interpret more sensitively some of the offerings of the standard text book of general chemistry As a supplement thereto it covers various aspects of formulation and stoichiometry that are frequently treated far too perfunctorily or in many instances are not considered at all The inadequate attention often accorded by the comprehensive text to many topics within its proper purview arises understandably enough from the numerous broad and highly varied objectives set for the first year of the curriculum for modern chemistry in colleges and universities For the serious student this means more often than not the frustrations of questions unanswered The amplification that this book proffers in the immediate area of its subject covers the equations representing internal redox reactions not only of the simple but also of the multiple disproportionations of which the complexities often discourage an undertaking despite the challenge they offer distinctions to be observed in the balancing of equations in contrasting alkali basic and ammonia basic reaction media quantitative contributions made by the ionization or dissociation effects of electrolytes to the colligative properties of their solutions intensive application of the universal reaction principle of chemical equivalence to the stoichiometry of oxidation and reduction You Can Do Chemistry Sunil Tanna, 2018-11-19 A comprehensive guide to performing mole and stoichiometric calculations with numerous examples as well as questions and answers Covers calculations relating to solids solutions gases and electrolysis plus as limiting and excess reactants chemical yields atom economy and much more Fully up to date with the last international standards including the revised definition of mole which was agreed on November 16th 2018 **Factors in the Performance of Stoichiometric Calculations in Chemistry** Ronald Zachariah Fernandez, 1990 *Stoichiometric Calculations: Known Problems and Proposed Solution at a Chemistry-mathematics Interface* Werner Dierks, 1981 **Students' Conceptions of Stoichiometry at the Submicro Level** Sin-Yan Chan, 2017-01-27 This dissertation Students Conceptions of Stoichiometry at the Submicro Level by Sin yan Chan was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3.0 Hong Kong License The

content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Stoichiometry is an important topic in chemistry It tells how many reactants are required to produce a certain amount of product in terms of mass mole and volume Learning stoichiometric calculation involves the understanding of certain concepts such as the mole stoichiometric ratios and chemical equations Some studies attributed the failure in learning stoichiometry to the unfamiliarity with the amount of substance in a mole and students weakness in the mathematical ability Nevertheless how students connect the submicro level and the symbolic level in learning stoichiometry was not discussed widely In this study two examples of chemical reactions with different levels of difficulties were used to probe students conceptual understanding in stoichiometry at the submicro level Their strategies used in stoichiometric calculations were examined by an interview study of five Secondary Five students The connection between the submicro level and the symbolic level in learning stoichiometry would be also probed into Results indicate that the failure of stoichiometry learning may due to the disconnection in different levels of representation and students generated strategy one portion reasoning An implication for teaching and learning is that teachers should use diagrams at the submicro level in the teaching of stoichiometry Such diagrams should aim to help students building connections across the three levels of representation and enhancing students conceptual understanding in stoichiometry DOI 10 5353 th_b5396387 Subjects Chemistry Study and teaching Secondary

A Study Investigating a Hierarchical Model Relating to Stoichiometric Calculations Patrick J. Whelan,1982 *A Study Investigating a Hierarchical Model Relating to Stoichiometric Calculations* Patrick J. Whelan,1982 **Chemistry** Neil D. Jespersen,Alison Hyslop,2014-01-13 The Student Solutions Manual to accompany Chemistry The Molecular Nature of Matter 7th Edition Jespersen s Chemistry The Molecular Nature of Matter 7th Edition provides readers with the necessary practice support instruction and assessment that is required for learning and teaching the content of a General Chemistry course This text provides the forum for problem solving and concept mastery of chemical phenomena that leads to proficiency and success The Seventh Edition includes revisions to key content coverage areas and concepts and the addition of more Analyzing Solving Multi Concept problems and examples throughout the text An increased emphasis has also been placed on the intimate relationship that exists between structure at the submicroscopic molecular level and the observable macroscopic properties of matter Jespersen provides readers with a clear concise and easy to understand General Chemistry resource

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