

10**CHEMICAL QUANTITIES****Practice Problems**

On a piece of paper, solve the following problems.

YOU MUST SHOW YOUR WORK TO GET CREDIT FOR YOUR ANSWERS!!!

SECTION 10.1 THE MOLE: A MEASUREMENT OF MATTER

1. What is the molar mass of sucrose ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$)?
2. What is the molar mass of each of the following compounds?
 - a. phosphorus pentachloride (PCl_5)
 - b. uranium hexafluoride (UF_6)
3. Calculate the molar mass of each of the following ionic compounds:
 - a. KMnO_4
 - b. $\text{Ca}_3(\text{PO}_4)_2$
4. How many moles is 3.52×10^{24} molecules of water?
5. How many atoms of zinc are in 0.60 mol of zinc?
6. What is the mass of 1.00 mol of oxygen (O_2)?

SECTION 10.2 MOLE–MASS AND MOLE–VOLUME RELATIONSHIPS

1. What is the molar mass of each of the following compounds?
 - a. $\text{C}_6\text{H}_{12}\text{O}_6$
 - b. NaHCO_3
 - c. C_3H_8
 - d. KNH_4SO_4
2. Calculate the mass in grams of each of the following:
 - a. 8.0 mol lead oxide (PbO)
 - b. 0.75 mol hydrogen sulfide (H_2S)
 - c. 0.00100 mol silicon tetrahydride (SiH_4)
 - d. 1.50×10^{-2} mol molecular oxygen (O_2)
 - e. 2.30 mol ethylene glycol ($\text{C}_2\text{H}_6\text{O}_2$)
3. How many grams are in 1.73 mol of dinitrogen pentoxide (N_2O_5)?
4. How many grams are in 0.658 mol of calcium phosphate [$\text{Ca}_3(\text{PO}_4)_2$]?
5. Calculate the number of moles in each of the following:
 - a. 0.50 g sodium bromide (NaBr)
 - b. 13.5 g magnesium nitrate [$\text{Mg}(\text{NO}_3)_2$]
 - c. 1.02 g magnesium chloride (MgCl_2)
 - d. 0.00100 g monochloromethane (CH_3Cl)
 - e. 1.50×10^{-3} g propylene glycol [$\text{C}_3\text{H}_8(\text{OH})_2$]
6. A chemist plans to use 435.0 grams of ammonium nitrate (NH_4NO_3) in a reaction. How many moles of the compound is this?
7. A solution is to be prepared in a laboratory. The solution requires 0.0465 mol of quinine ($\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2$). What mass, in grams, should the laboratory technician obtain in order to make the solution?
8. What is the volume at STP of 2.66 mol of methane (CH_4) gas?
9. How many moles is 135 L of ammonia (NH_3) gas at STP?

Study Guide Content Mastery Chemical Reactions Answers

Diane Alford, Jennifer Hill



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Critically boxes help you synthesize information and apply concepts beyond the scope of the chapter Cultural Considerations related to biocultural variations as well as health promotion for specific ethnic groups demonstrate how to provide culturally competent care Elder Care Points highlight changes that occur with aging and how they affect nursing care Home Care boxes highlight the necessary adaptations of nursing skills and techniques for the patient in the home care setting NEW Rationales for NCLEX review questions at the end of each chapter help you understand why your choices were correct or incorrect NEW Full text reviews by experts in the field offer consistency and ease understanding as you progress through the book NEW Evolve margin icons denote supplemental material for students on Evolve NEW Evidence Based Practice margin icons point out the most current and evidence based information NEW In depth discussion of the Quality and Safety Education for Nurses QSEN within the text provides the knowledge skills and attitudes necessary to continuously improve the quality and safety of the healthcare systems

Chemistry John S. Phillips, Cheryl Wistrom, 2000 *Resources in Education*, 2000-04 Secrets of a Top-scoring Student Linus Tham, 2009 *Learning and Understanding* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-09-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

Fundamentals of Urine and Body Fluid Analysis - E-Book Nancy A. Brunzel, 2022-05-07 Learn how to accurately analyze urine and body fluids with Fundamentals of Urine and Body Fluid Analysis 5th Edition Known for its clear writing style logical organization and vivid full color illustrations this renowned text offers the perfect level and depth of information for understanding the fundamental principles of urine and body fluids frequently encountered in the clinical laboratory This includes the collection and analysis of urine fecal specimens vaginal secretions and other body fluids such as cerebrospinal synovial seminal amniotic pleural pericardial and peritoneal fluids Author Nancy Brunzel also shares her extensive knowledge and expertise in the field as she highlights key information and walks you through essential techniques and procedures showing you how to correlate data with your knowledge of basic anatomy and physiology in order to understand pathologic processes Study questions and case studies in each chapter reinforce comprehension and application with an answer key located in the back of the book UNIQUE Table of crystal images

based on shape serves as a single comprehensive guide to the identification of crystals in urine sediment UNIQUE Image Gallery of Urine Sediment provides alternate views of sediment components to augment the numerous classic photomicrographs already present in the Microscopic Examination of Urine chapter UNIQUE Quick Guides to urine and body fluid photomicrographs make it fast and easy to find a photo of a specific cell type or component of interest UNIQUE Tables with high quality polarizing microscopy photomicrographs demonstrate the differences in birefringent intensity of substances with and without a red compensator The most complete collection of high quality full color images enables optimal identification of microscopic components in urine and other body fluids NEW Fully updated content provides valuable information on the latest techniques and advances in the field NEW Enhanced content new tables and new images facilitate the microscopic differentiation of monocytes macrophages and mesothelial cells in pleural peritoneal and pericardial fluids NEW More than 250 photomicrographs of cells and other components in body fluid and urine sediment serve as a visual quick reference for identification during analysis NEW Thumbprint images embedded in numerous tables enhance learning and serve as an invaluable resource when performing fluid analysis at the bench **Excel HSC Biology** Diane Alford, Jennifer Hill, 2008 *STEM Road Map* Carla C. Johnson, Erin E. Peters-Burton, Tamara J. Moore, 2015-07-03 STEM Road Map A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K 12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding A team of over thirty STEM education professionals from across the U S collaborated on the important work of mapping out the Common Core standards in mathematics and English language arts the Next Generation Science Standards performance expectations and the Framework for 21st Century Learning into a coordinated integrated STEM education curriculum map The book is structured in three main parts Conceptualizing STEM STEM Curriculum Maps and Building Capacity for STEM designed to build common understandings of integrated STEM provide rich curriculum maps for implementing integrated STEM at the classroom level and supports to enable systemic transformation to an integrated STEM approach The STEM Road Map places the power into educators hands to implement integrated STEM learning within their classrooms without the need for extensive resources making it a reality for all students **Fundamental Concepts and Skills for Nursing - E-Book** Patricia A. Williams, 2021-02-03 NEW Coverage of the NCSBN Clinical Judgment Measurement Model introduces students to the testing model used on the Next Generation NCLEX Exam NEW case studies and Next Generation NCLEX Exam style questions give students practice and prepare them for the Next Generation NCLEX Examination NEW photos and illustrations show critical skills and procedures NEW Updated guidelines include those from the American Heart Association The Joint Commission National Pressure Ulcer Advisory Panel Dietary Guidelines and more NEW Expanded Evidence Based Practice boxes and best practices are highlighted throughout the book **Master The SAT - 2011** Peterson's, 2010-08-03 Offers test taking strategies and full length practice exams and study plans with practice drills

Government-wide Index to Federal Research & Development Reports ,1966-07 *Standards and Mastery Learning* J.

Ronald Gentile,James P. Lalley,2003-01-06 This book describes the concept of mastery learning in the classroom and the various foundations upon which it is built Five chapters discuss 1 Understanding Mastery Learning e g the learning memory base the measurement base theoretical bases and the brain base 2 Examining the Standards Math Science Social Studies and English Language Arts e g mastery as a beginning beyond mastery and standards 3 Planning Standards Based Lessons using Mastery Learning e g overlap among state and national standards enrichment and remediation and planning lessons using six elements of mastery learning 4 Implementing Standards and Mastery Learning in the Classroom 13 steps to implementing mastery learning and 5 Professional Development and Mastery Learning e g a plan for action and a professional development agenda and teaching for mastery The appendix looks at what the literature can tell e g two approaches to mastery learning empirical evidence research examples and memory by fast and slow learners Contains approximately 160 references SM

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Education Michael E. Auer,Hanno Hortsch,Panarit Sethakul,2020-03-17 This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning ICL2019 which was held in Bangkok Thailand from 25 to 27 September 2019 Covering various fields of e learning and distance learning course and curriculum development knowledge management and learning real world learning experiences evaluation and outcomes assessment computer aided language learning vocational education development and technical teacher training the contributions focus on innovative ways in which higher education can respond to the real world challenges related to the current transformation in the development of

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Memmler's The Human Body in Health and Disease, Enhanced Edition Barbara Janson Cohen, Kerry L. Hull, 2020-08-03 Updated in content and pedagogy this 14th Edition of Memmler's the Human Body in Health and Disease has helped hundreds of thousands of allied health students including those with little background in science to master anatomy and physiology From its pioneering use of phonetic pronunciations to its pedagogically effective skin to bone transparencies of the human body and increased focus on visualization the new edition continues to set the standard for the one semester course

Kaplan PRAXIS 2006 Edition Kaplan, Michael Palmer, 2005 For the approximately 140 000 prospective teachers planning to take the Praxis I or Praxis II Kaplan offers an indispensable guide for succeeding on this difficult exam

Games-To-Teach or Games-To-Learn Yam San Chee, 2015-08-18 The book presents a critical evaluation of current approaches related to the use of digital games in education The author identifies two competing paradigms that of games to teach and games to learn Arguing in favor of the latter the author advances the case for approaching game based learning through the theoretical lens of performance rooted in play and dialog to unlock the power of digital games for 21st century learning Drawing upon the author's research three concrete exemplars of game based learning curricula are described and discussed The challenge of advancing game based learning in education is addressed in the context of school reform Finally future prospects of and educational opportunities for game based learning are articulated Readers of the book will find the explication of performance theory applied to game based learning especially interesting This work constitutes the author's original theorization Readers will derive four main benefits 1 an explication of the difference between game based teaching and game based learning and why this difference is of critical importance 2 an exposition of the theory of game based learning as performance 3 concrete exemplars and research outcomes relating to three game based learning curricula that have been empirically evaluated in schools and 4 an understanding of complex issues related to the human side of school change that must be effectively addressed to achieve take up of game based learning in schools

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