

# Chemistry 100 Final Study Guide

- **Chapter 1: Introduction**

- a. Physical vs. Chemical properties
  - 1) List 2 physical and 1 chemical property of magnesium.
- b. Units of measurement
  - 1) Can you distinguish between metric and U.S. units of measurement?
  - 2) What is 0.000000568 in scientific notation? What is  $4.63 \times 10^7$  in regular notation?
- c. Density
  - 1) What is the density of a 37g block of metal that takes up 15mL of volume?

- **Chapter 3: Atomic Structure**

- a. Historical Perspective
  - 1) List the major scientific accomplishments of the following scientists:
    - (i) Michael Faraday
    - (ii) Joseph Thomson
    - (iii) Robert Millikan
    - (iv) Ernest Rutherford
    - (v) Neils Bohr
    - (vi) Erwin Schrodinger
- b. Isotopes
  - 1) Define an isotope and give an example of several isotopes for hydrogen.
- c. Structure of the atom
  - 1) Name the 3 main parts of an atom, and indicate where in the atom they'd be found.
  - 2) For the element sodium: how many energy levels? How many sublevels? What orbitals? How many electrons?
  - 3) Write the full electron configuration of silicon.
- d. Electron configurations and trends on the Periodic Table
  - 1) Locate each of the following on the Periodic Table: alkali metals, alkaline earth metals, transition metals, halogens, noble gases, metals, non-metals.

- **Chapter 5: Chemical bonds**

- a. Electron-dot structures
  - 1) Draw the electron-dot structure of an oxygen atom.
- b. Octet Rule and Ions
  - 1) What charge of ions do magnesium, chlorine and nitrogen form?
- c. Ionic compounds
  - 1) Name the following compounds:  $\text{AlBr}_3$ ,  $\text{CaS}$ ,  $\text{Na}_3\text{N}$
- d. Covalent compounds
  - 1) Name the following compounds:  $\text{SO}_2$ ,  $\text{PCl}_3$ ,  $\text{CH}_4$
- e. Polyatomic molecules
  - 1) Name and write the formula for the 6 -ate polyatomic molecules we discussed.
- f. Electron-dot formulas for molecules
  - 1) Write the electron-dot formula for each of the 6 -ate polyatomic ions we discussed.
- g. VSEPR Model and Molecular shape
  - 1) Draw the electron-dot formula of ammonia ( $\text{NH}_3$ ) and state its VSEPR shape.
- h. Molecule polarity
  - 1) Which of the VSEPR molecule shapes are polar and which are non-polar?

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**Christian G. Meyer**



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**Laboratory Safety for Chemistry Students** Robert H. Hill, Jr., David C. Finster, 2016-05-02 Provides knowledge and models of good practice needed by students to work safely in the laboratory as they progress through four years of undergraduate laboratory work Aligns with the revised safety instruction requirements from the ACS Committee on Professional Training 2015 Guidelines and Evaluation Procedures for Bachelor's Degree Programs Provides a systematic approach to incorporating safety and health into the chemistry curriculum Topics are divided into layers of progressively more advanced and appropriate safety issues so that some topics are covered 2-3 times at increasing levels of depth Develops a strong safety ethic by continuous reinforcement of safety to recognize, assess and manage laboratory hazards and to plan for response to laboratory emergencies Covers a thorough exposure to chemical health and safety so that students will have the proper education and training when they enter the workforce or graduate school

**Laboratory Operations and Management** Jeanne Isabel, Patricia Ellinger, Dana Griffin, 2024-10-01 Management and lab operations for career entry level students The path to leadership success in the lab begins with a firm foundation in the many facets of management Designed to meet the needs of today's students this new text introduces the principles of laboratory management and demonstrates how to apply them in the real world It builds a foundation in the administration of personnel and finance It also addresses the broad range of knowledge needed to become an effective leader in today's increasingly complex environment quality measures compliance safety regulations and professionalism information critical for all laboratory personnel including the new supervisor

**Course Success in the Undergraduate General Chemistry Lab** Thomas Elert, 2019-11-15 Stetig hohe Studienabbruchquoten in den MINT-Fächern an deutschen Hochschulen, welche auch aus geringem Kurserfolg in einführenden Laborpraktika resultieren könnten und die wachsende Kritik an der Qualität und Wirksamkeit ebendieser machen eine eingehende Betrachtung von Laborpraktika notwendig Diese Studie untersuchte die Lernziele des Laborpraktikums Allgemeine Chemie für Lehramtsstudierende im ersten Semester sowie Faktoren für den Kurserfolg um daraus Aussagen über den Stellenwert von Laborpraktika in der universitären Bildung insbesondere für langfristigen Studienerfolg abzuleiten Dazu wurde ein theoretisches Modell zu Grunde gelegt, welches das Vorwissen der Studierenden und die Lernzielpassung zwischen Studierenden und Lehrenden als zwei entscheidende Faktoren für Kurserfolg berücksichtigt Constantly high student dropout rates in STEM subjects at German universities which could be the result of low course success in introductory laboratory courses among other things and increasing criticism about their quality and effectiveness necessitate these laboratory courses to be examined thoroughly This study investigated the learning goals of the General Chemistry laboratory course for first year students in teacher training and factors for course success in order to make statements about the significance of laboratory courses for university education particularly for long term study success For this purpose a theoretical model that assumes the students' prior knowledge and learning goal alignment between students and their lab instructors to be two

defining factors for lab course success was used as a framework      *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book* Nader Rifai,2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value NEW Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation NEW Standard and international units of measure make this text appropriate for any user anywhere in the world NEW 22 new chapters that focus on applications of mass spectrometry hematology transfusion medicine microbiology biobanking biomarker utility in the pharmaceutical industry and more NEW Expert senior editors Nader Rifai Carl Wittwer and Rita Horvath bring fresh perspectives and help ensure the most current information is presented UPDATED Thoroughly revised and peer reviewed chapters provide you with the most current information possible      **BATES' Guide to Physical Examination and History Taking** Uzma Firdaus,2020-04-01 Bates Guide to Physical Examination and History Taking is designed for undergraduate and postgraduate students in medicine and allied specialties      [Clinical Informatics Study Guide](#) John T. Finnell,Brian E. Dixon,2022-04-22 This completely updated study guide textbook is written to support the formal training required to become certified in clinical informatics The content has been extensively overhauled to introduce and define key concepts using examples drawn from real world experiences in order to impress upon the reader the core

content from the field of clinical informatics The book groups chapters based on the major foci of the core content health care delivery and policy clinical decision making information science and systems data management and analytics leadership and managing teams and professionalism The chapters do not need to be read or taught in order although the suggested order is consistent with how the editors have structured their curricula over the years Clinical Informatics Study Guide Text and Review serves as a reference for those seeking to study for a certifying examination independently or periodically reference while in practice This includes physicians studying for board examination in clinical informatics as well as the American Medical Informatics Association AMIA health informatics certification This new edition further refines its place as a roadmap for faculty who wish to go deeper in courses designed for physician fellows or graduate students in a variety of clinically oriented informatics disciplines such as nursing dentistry pharmacy radiology health administration and public health

**Vitamin D** Martin Hewison,Roger Bouillon,Edward Giovannucci,David Goltzman,2017-12-14 Vitamin D Volume One Biochemistry Physiology and Diagnostics Fourth Edition presents the latest information from international experts in endocrinology bone biology and human physiology taking readers through the basic research of vitamin D This impressive reference presents a comprehensive review of the multifaceted vitamin D Researchers from all areas will gain insight into how clinical observations and practices can feed back into the research cycle thus allowing them to develop more targeted genomic and proteomic insights on the mechanisms of disease Offers a comprehensive reference ranging from basic bone biology to biochemistry to the clinical diagnostic and management implications of vitamin D Saves researchers and clinicians time in quickly accessing the very latest details on the diverse scientific and clinical aspects of Vitamin D as opposed to searching through thousands of journal articles Targets chemistry metabolism and circulation mechanisms of action mineral and bone homeostasis human physiology diagnosis and management nutrition sunlight genetics and vitamin D deficiency Volume II of this collection presents a clinical focus on disorders analogs cancer immunity inflammation and disease and therapeutic applications

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