

Periodic Trends Worksheet

Directions: Use your notes to answer the following questions.

1. Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

Oxygen < Carbon < Aluminum < Potassium

2. Rank the following elements by increasing electronegativity: sulfur, oxygen, neon, aluminum.

Neon < Aluminum < Sulfur < Oxygen

3. Why does fluorine have a higher ionization energy than iodine?

Fluorine has nine protons attracting 9 electrons which are much closer to the nucleus compared to iodine. This results in smaller size of Fluorine than iodine making it difficult to remove an electron from the atom.

4. Why do elements in the same family generally have similar properties?

Because they have same number of electrons in the outer shell (valence electrons) which take part in chemical reaction.

5. Indicate whether the following properties increase or decrease from left to right across the periodic table.

- | | |
|--|------------------|
| a. atomic radius (excluding noble gases) | Decreases |
| b. first ionization energy | Increases |
| c. electronegativity | Increases |

6. What trend in atomic radius occurs down a group on the periodic table? What causes this trend?

Atomic radius **decreases** down the group on the periodic table. As we compare the elements down the group, the effective nuclear charge increases, but at the same time the outermost electrons are found in the shell that is farther away from the nucleus. Also the number of screening electrons increases. This results in reduced attraction between the nucleus and the outermost electrons.

7. What trend in ionization energy occurs across a period on the periodic table? What causes this trend?

Ionization energy **increases** from left to right across the period. The atomic size becomes smaller from left to right. So it becomes harder to remove electron from the atom. Hence the energy required to do so (ionization Energy) increases.

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Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life

Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

Exploring Physical Science in the Laboratory John T. Salinas , 2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

The World of Chemistry Jones, Jones Staff, 1996 **Chemistry I | AICTE Prescribed Textbook - English** Manisha Agrawal, 2021-11-01 Chemistry I is a compulsory paper for the first year Undergraduate course in Engineering Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education Book covers seven topics Atomic and molecular structure Spectroscopic Technique and applications Inter molecular Forces and Potential Energy Surfaces Use of Free Energy in Chemical Equilibrium Periodic Properties Stereo chemistry Organic Reactions and Synthesis of Drug Molecules Each topic is written in easy and lucid manner Every chapter contains a set of exercise at the end of each unit to test student's comprehension Salient Features Content of the book aligned with the mapping of Course Outcomes Programs Outcomes and

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A Laboratory Quality

Handbook of Best Practices Donald C. Singer, 2001-09-25 Based on the work of a collection of experts from the laboratory science and quality assurance fields A Laboratory Quality Handbook of Best Practices and Relevant Regulations provides all of the information needed to run a successful laboratory that is in compliance with all regulations From sample tracking to accurate documentation training to methods validation maintenance to calibration and out of spec responses to preparation for audits a combination of people instrumentation and documentation must work in sync for high quality results This handbook provides information that will help a laboratory achieve high quality results and compliance Contents Quality Assurance in the Laboratory History of Regulation Training in the Laboratory Laboratory Documentation and Data Sample Control and LIM Systems Methods Validation

CLINICAL LAB EXCELLENCE Techniques, Tools & Troubleshooting

Mrs. AMAN ATIAH ALBELADI, Mrs. WJDAN TURKI ALDAAJANI, Ms. DHUHA MOHAMMED ALKHURIJY, Mrs. ALANOUD MOHAMMED ALABOUD, Clinical laboratories are vital to the accurate diagnosis successful treatment and continuous monitoring of disease Technological advancements have ushered laboratories into an era where precision quality and efficiency are more vital than ever The book Clinical Lab Excellence Techniques Tools Troubleshooting has been developed to be a compendium for laboratory professionals educators students and other stakeholders in healthcare who embrace the concept of clinical laboratory excellence From basic techniques and SOPs to cutting edge tools and equipment in applied and basic clinical laboratory settings this book addresses a broad range of high priority areas Also highlights the rise business critical focus areas such as quality automation biosafety regulatory compliance Additionally practical troubleshooting strategies have been emphasized providing the usual errors and technical issues that are faced on a regular basis in the laboratory and their solutions The great thing about this book is that it also provides real face value rooted in fundamental craft from an integrated approach Whether you are a beginner wanting to develop a solid foundation or an experienced user or developer looking to hone your skills there will be something of value in these pages for you I salute my fellow lab scientists pathologists technologists and quality managers who toil day in and day out behind the scenes to make sure medical diagnoses are as reliable and credible as possible This book owes much to those who aspire to accuracy safety and patient care and their dedication continues to influence its contents and purpose Clinical Lab Excellence Techniques Tools Troubleshooting I hope will play a part in advancing the never ending quest for excellence and that the reader should have the means to uphold the highest standards of clinical laboratory practice

Scientific and Technical Aerospace Reports

,1991-07 **Toxicology Research Projects Directory** ,1979 **The Principles of Clinical Cytogenetics** Steven L. Gersen,Martha B. Keagle,2013-03-26 In this thoroughly revised and expanded third edition of the highly praised classic *The Principles of Clinical Cytogenetics* a panel of hands on experts update their descriptions of the basic concepts and interpretations involved in chromosome analysis to include the many advances that have occurred in the field Among the highlights are a full chapter devoted to advances in chromosome microarray soon to become a standard of care in this field as well as an update on chromosome nomenclature as reflected in ISCN 2009 Other features include an update on automation to reflect the current state of the art an update on hematopoietic neoplasms to reflect the new WHO guidelines and updates on all regulatory changes that have been implemented Cutting edge and readily accessible *The Principles of Clinical Cytogenetics Third Edition* offers physicians who depend on the cytogenetics laboratory for the diagnosis of their patients students in cytogenetics programs graduate and medical students studying for board examinations cytogenetics technologists and cytogeneticists a clear understanding of what happens in the cytogenetics laboratory to facilitate accurate and timely diagnoses **Energy Research Abstracts** ,1990 Research and Development in Progress U.S. Atomic Energy Commission. Division of Biology and Medicine,1968 *Flying Magazine* ,2002-08 **Diagnostic Pathology: Breast - Ebook** Susan C. Lester,David G. Hicks,2025-05-06 This expert volume in the *Diagnostic Pathology* series is not only an up to date comprehensive diagnostic support tool for surgical pathologists but also a valuable resource for all health care workers who provide care to patients with breast disease including radiologists as well as surgical medical and radiation oncologists An excellent point of care reference for practitioners at all levels of experience and training the fourth edition of *Diagnostic Pathology Breast Fourth Edition* provides details on normal breast histology information to assist in processing breast specimens and multichapter sections on diagnostic patterns benign lesions carcinomas predictive and prognostic factors stromal lesions inflammatory lesions lymphomas and hereditary breast disease Richly illustrated and easy to use this volume is ideal as a one stop resource for day to day reference or as a reliable training resource Incorporates the most up to date scientific and technical knowledge providing a comprehensive overview of all key issues relevant to today s practice Emphasizes the correlation of pathologic lesions with findings on breast imaging and provides guidance on the interpretation of core needle biopsies Contains new overview chapters that lay the groundwork for initial evaluation and assistance with differential diagnosis as well as new chapters on HER2 low breast carcinoma immunohistochemical studies for diagnosis proliferation and more Provides important updates throughout covering the evaluation of ESR1 PIK3CA AKT and BRCA1 mutations to guide therapy tumor infiltrating lymphocytes and PD L1 for treatment planning HER2 low assessment to determine eligibility for antibody drug conjugates and much more Features new animations and new videos to assist in understanding three dimensional anatomy radiologic pathologic correlation the processing of breast specimens and the gross identification of breast lesions Contains more than 3 700 extensively annotated images including gross pathology

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