

Name _____ Date _____ Per _____

Periodic Trends Lab

Periodic law states that when the elements are arranged in order of increasing atomic number, there is a periodic repetition of their chemical and physical properties. Elements within the same group have the most similar chemical and physical properties, although not identical. Elements in neighboring groups may also have similar chemical and physical properties, but to a lesser degree. Trends in properties occur within groups and across periods.

PURPOSE: In this activity, you will

- Interpret group and periodic trends in atomic radius, electronegativity, and ionization energy
- Graph these trends

PROCEDURE:

1. Complete the pre-lab section
2. Using the data from **Table S** of your reference tables, prepare the graphs listed below. Staple your graphs to the back of this lab packet.

On each graph be sure to:

- **USE PENCIL!**
- Put an appropriate title and labels for each axis.
- Omit the transition elements.
- Connect the points you plot.
- Connect the points representing Group 1 elements with a green line.
- Connect the points representing Group 2 elements with a blue line.
- Connect the points representing Group 17 elements with a red line.
- Draw a triangle around the points representing the elements of Period 3.

GRAPH 1. Atomic radius vs. atomic number for elements 1-54.

GRAPH 2. Electronegativity vs. atomic number for elements 1-54.

GRAPH 3. Ionization energy vs. atomic number for elements 1-54.

3. Complete the conclusion section.

Periodic Trends Pre Lab Answers

McGraw-Hill Staff



Periodic Trends Pre Lab Answers:

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 **Chemistry** McGraw-Hill Staff, 2001-07 **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

Prentice Hall Chemistry, 2000 **Sustainable Green Chemistry** Mark Anthony Benvenuto, 2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation **Integrated Approach to Coordination Chemistry**

Rosemary A. Marusak, Kate Doan, Scott D. Cummings, 2007-03-07 Coordination chemistry is the study of compounds formed between metal ions and other neutral or negatively charged molecules This book offers a series of investigative inorganic laboratories approached through systematic coordination chemistry It not only highlights the key fundamental components of the coordination chemistry field it also exemplifies the historical development of concepts in the field In order to graduate as a chemistry major that fills the requirements of the American Chemical Society a student needs to take a laboratory course in inorganic chemistry Most professors who teach and inorganic chemistry laboratory prefer to emphasize coordination chemistry rather than attempting to cover all aspects of inorganic chemistry because it keeps the students focused on a cohesive part of inorganic chemistry which has applications in medicine the environment molecular biology organic synthesis and inorganic materials **Guided Inquiry Experiments for General Chemistry** Nancy K. Kerner, Ram S.

Lamba, 2007-10-19 The use of the laboratory is a valuable tool in developing a deeper understanding of key chemical

concepts from the experimental process This lab manual encourages scientific thinking enabling readers to conduct investigations in chemistry It shows how to think about the processes they are investigating rather than simply performing a laboratory experiment to the specifications set by the manual Each experiment begins with a problem scenario and ends with questions requiring feedback on the problem

Laboratory Manual Jo A. Beran, 1990 *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 photographs histopathology photomicrographs a wide range of immunohistochemical stains fluorescent in situ hybridization breast imaging studies and full color illustrations Employs consistently templated chapters bulleted content key facts annotated images and an extensive index for quick expert reference at the point of care

Laboratory and Diagnostic Testing in Ambulatory Care - E-Book Martha (Marti) Garrels, Carol S. Oatis, 2014-11-17 Learn the lab testing skills you need to know Laboratory and Diagnostic Testing in Ambulatory Care A Guide for Health Care Professionals 3rd Edition provides in depth coverage of the most common procedures and techniques of all the new CLIA waived point of care tests along with some moderately complex tests Clear step by step instructions and full color photographs make it easy to perform each test and procedure To reflect the expanding roles of medical assistants and medical lab technicians this edition adds a new chapter on electrocardiography and spirometry Written by noted medical assisting educator Marti Garrels this guide also

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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

Principles Of Descriptive Inorganic Chemistry Gary Wulfsberg,1991-05-29 This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts Translated into Italian

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Clinical Laboratory Science - E-Book Mary Louise Turgeon,2015-02-10 Using a discipline by discipline approach Linne perforated pages make it easy for students to remove for use in the lab and for assignment of review questions as homework
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