

Graphing Periodic Trends Lab

Name _____ Hr _____

PURPOSE: To determine how certain properties are periodic when the elements are arranged in periods or groups.

DISCUSSION: There are many periodic trends that occur as you cross a period or go down a group/family on the Periodic Table. Graphing various elemental properties will help to illustrate these trends.

REFERENCE:

Angstrom - A unit of distance equal to one ten-billionth of a meter.

Atomic Radius - The distance from the center of the nucleus to the valence electron energy level.

Ionization energy - The energy required to remove an electron from an atom.

DATA

Properties of the First 18 Elements

Element	Atomic Number	Atomic Radius (Angstroms)	Ionization Energy
H	1	0.79	314
He	2	0.49	567
Li	3	2.05	124
Be	4	1.4	215
B	5	1.17	191
C	6	0.91	260
N	7	0.75	335
O	8	0.65	314
F	9	0.57	402
Ne	10	?	?
Na	11	2.23	119
Mg	12	1.72	176
Al	13	1.82	138
Si	14	1.46	168
P	15	1.23	242
S	16	1.09	239
Cl	17	0.97	299
Ar	18	?	?

Using the data above, make a line graph the following data. Draw a dark vertical line to separate the 3 periods. Give each graph a title and label both the x-axis and the y-axis. Connect your points. Predict the plot points for elements with question marks.

1. Atomic Radius (y) vs. Atomic Number (x) for the first 3 periods (18 elements – 3 graphs)
2. Ionization energy (y) vs. Atomic Number (x) for the first 3 periods (18 elements – 3 graphs)

Periodic Trends Lab Answers

O García

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Periodic Trends Lab Answers:

CBSE Science Chapterwise Case Study Class 10 Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging

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

Using Constructivism in Teaching AP Chemistry Avidah Lotfi, 2004

Developing and Sustaining a Research-supportive Curriculum Kerry K. Karukstis, Timothy E. Elgren, 2007 This compendium of successful curricular and institutional practices to develop critical research skills emphasized the importance of the collective efforts of the undergraduate community to integrate research and education By collecting and disseminating a variety of mechanisms that are effective means of creating a research supportive undergraduate curriculum the Council on Undergraduate Research aims to encourage faculty and institutions to continue to seek creative useful and significant ways to promote learning through research Publisher s description

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

Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real

world situations **O-level Chemistry Challenging Drill Questions (Concise) (Yellowreef)** Thomas Bond,Chris Hughes,2013-11-07 questions from top schools since 2003 complete encyclopedia of over 350 questions complete answer keys full set of step by step solution approaches available separately complete edition and concise edition eBooks available

AP Chemistry For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Kate Brutlag,2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam Merrill Chemistry Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 The Good Student Charles Jay Rop,1996 *Prentice Hall Science Explorer* Michael J. Padilla,2002

Prentice Hall Chemistry ,2000 **Parallel Curriculum Units for Science, Grades 6-12** Jann H. Leppien,Jeanne H. Purcell,2011-02-15 Teachers at various stages of professional development in curriculum design will find these materials powerful examples that will guide their growth and development and sharpen their skills Mary L Slade Professor James Madison University Harrisonburg VA Supercharge your science curriculum to challenge all students Based on the best selling book *The Parallel Curriculum* this professional development resource gives multifaceted examples of rigorous learning opportunities for science students in Grades 6-12 The four sample units revolve around genetics the convergence of science and society the integration of language arts and biology and the periodic table The editors and contributors provide

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 available are online content tools such as handouts PowerPoint presentations and research activities Breathe new life into
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Table of Contents Periodic Trends Lab Answers

1. Understanding the eBook Periodic Trends Lab Answers
 - The Rise of Digital Reading Periodic Trends Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Trends Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Periodic Trends Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Trends Lab Answers
 - Personalized Recommendations
 - Periodic Trends Lab Answers User Reviews and Ratings
 - Periodic Trends Lab Answers and Bestseller Lists

5. Accessing Periodic Trends Lab Answers Free and Paid eBooks
 - Periodic Trends Lab Answers Public Domain eBooks
 - Periodic Trends Lab Answers eBook Subscription Services
 - Periodic Trends Lab Answers Budget-Friendly Options
6. Navigating Periodic Trends Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Periodic Trends Lab Answers Compatibility with Devices
 - Periodic Trends Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Periodic Trends Lab Answers
 - Highlighting and Note-Taking Periodic Trends Lab Answers
 - Interactive Elements Periodic Trends Lab Answers
8. Staying Engaged with Periodic Trends Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Periodic Trends Lab Answers
9. Balancing eBooks and Physical Books Periodic Trends Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Periodic Trends Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Periodic Trends Lab Answers
 - Setting Reading Goals Periodic Trends Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Periodic Trends Lab Answers
 - Fact-Checking eBook Content of Periodic Trends Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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