

GRAPHING PERIODIC TRENDS

Standard: Students know how to use the periodic table to identify trends in ionization energy, electronegativity, and the relative sizes of ions and atoms.

PRE-LAB DISCUSSION:

The Periodic Table is arranged according to the Periodic Law. The Periodic Law states that when elements are arranged in order of increasing atomic number, their physical and chemical properties show a periodic pattern. Students can discover these patterns by examining the changes in properties of elements on the Periodic Table. The properties that will be examined in this lesson are: atomic radius AND first ionization energy.

PURPOSE:

To understand periodic trends relating to atomic radius, ionization energy, and electronegativity.

PROCEDURE:

Use the information in these tables to complete the graph as described below.

RESULTS:

Symbol	Atomic Radius (Picometers)	First Ionization (Kilojoules/mole)	Electronegativity (4-point scale)
H	37	1312	2.1
Li	128	520	1.0
Na	190	496	0.9
K	203	419	0.8
Rb	220	403	0.8
Cs	244	376	0.7

Symbol	Atomic Radius (Picometers)	First Ionization (Kilojoules/mole)	Electronegativity (4-point scale)
He	31	498	0.0
Mg	141	738	1.2
Al	121	578	1.5
Si	111	787	1.8
P	107	1012	2.1
S	106	1000	2.5
Cl	102	1251	3.0
Ar	100	1521	—

1. Define each of these terms: Atomic radius, First Ionization Energy, and Electronegativity.
2. Using colored-pencil or pen, list under the symbol (in this order) the Atomic Radius, First Ionization Energy, and Electronegativity. Use a different color for each property. Example: Write all of the Atomic radius values in red, all of the First Ionization energies in green, and all of the Electronegativities in blue. Of course, you can pick any colors that are available, as long as you are consistent.
3. Observe the trends in each property as you go down the Alkali metal group, and as you go across Period 3.
4. Write out each of the statements written on the opposite side, completing each statement with the observed trend (increase or decrease).
5. There is NO ABSTRACT to write for this activity :)

Periodic Trends Lab Question Answers

John T. Salinas

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

Periodic Trends Lab Question Answers:

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 [Class 8-12 Chemistry Questions and Answers PDF](#) Arshad Iqbal, The Class 8 12 Chemistry Quiz Questions and Answers PDF Grade 8 12 Chemistry Competitive Exam Questions Chapter 1 15 Practice Tests Chemistry Textbook Questions for Beginners includes Questions to solve problems with hundreds of class questions Class 8 12 Chemistry Questions and Answers PDF book covers basic concepts and analytical assessment tests Class 8 12 Chemistry Quiz PDF book helps to practice test questions from exam prep notes The Grade 8 12 Chemistry Quiz Questions and Answers PDF eBook includes Practice material with verbal quantitative and analytical past papers questions Class 8 12 Chemistry Questions and Answers PDF Free download chapter 1 a book to review textbook questions on chapters Molecular structure acids and bases atomic structure bonding chemical equations descriptive chemistry equilibrium systems gases laboratory liquids and solids mole concept oxidation reduction rates of reactions solutions thermochemistry Questions for high school and college revision questions Chemistry Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Grade 8 12 Chemistry Interview Questions Chapter 1 15 PDF book includes high school workbook questions to practice Questions for exam Chemistry Practice Tests a textbook s revision guide with chapters Questions for NEET MCAT GRE GMAT SAT ACT competitive exam Grade 8 12 Chemistry Questions Bank Chapter 1 15 PDF book covers problem solving exam tests from chemistry practical and textbook s chapters as Chapter 1 Molecular Structure Questions Chapter 2 Acids and Bases Questions Chapter 3 Atomic Structure Questions Chapter 4 Bonding Questions Chapter 5 Chemical Equations Questions Chapter 6 Descriptive Chemistry Questions Chapter 7 Equilibrium Systems Questions Chapter 8 Gases Questions Chapter 9 Laboratory Questions Chapter 10 Liquids and Solids Questions Chapter 11 Mole Concept Questions Chapter 12 Oxidation Reduction Questions Chapter 13 Rates of Reactions Questions Chapter 14 Solutions Questions Chapter 15 Thermochemistry Questions The Molecular Structure Quiz Questions PDF e Book Chapter 1 interview questions and answers on polarity three dimensional molecular shapes The Acids and Bases Quiz Questions PDF e Book Chapter 2 interview questions and answers on Arrhenius concept Bronsted lowry concept indicators introduction Lewis concept pH strong and weak acids and bases The Atomic Structure Quiz Questions PDF e Book Chapter 3 interview questions and answers on electron configurations experimental evidence of atomic structure periodic trends quantum numbers and energy levels The Bonding Quiz Questions PDF e Book Chapter 4 interview questions and answers on ionic bond covalent bond dipole dipole forces hydrogen bonding intermolecular forces London dispersion

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each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section 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 **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 AP Chemistry Premium, 2024: 6 Practice Tests + Comprehensive Review + Online Practice Neil D. Jespersen,Pamela Kerrigan,2023-07-04 A guide to taking the Advanced Placement exam in chemistry featuring a review of major chemistry concepts practice and diagnostic tests test taking strategies an overview of the test and practice problems **AP Chemistry Premium, 2022-2023: Comprehensive Review with 6 Practice Tests + an Online Timed Test Option** Neil D. Jespersen,Pamela Kerrigan,2021-07-06 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Chemistry Premium 2022 2023 includes in depth content review and online practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 3 in the book and 3 more online Strengthen your knowledge with in depth review covering all Units on the AP Chemistry Exam Reinforce your learning with practice questions at the end of each chapter Interactive Online Practice Continue your practice with 3 full length practice tests on Barron s Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with automated scoring to check your learning progress **Systems Approaches to Public Sector Challenges Working with Change** OECD,2017-08-11 This report produced by the OECD Observatory of Public Sector Innovation explores how systems approaches can be used in the public sector to solve complex or wicked problems **Changing How We Teach and Learn With Handheld Computers** Carolyn Staudt,2005 Crystal clear examples that are rich in content and aligned to standards

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Chemistry: The Easy Way Joseph A. Mascetta,Mark

Kernion,2019-08-06 A self teaching guide for students Chemistry The Easy Way provides easy to follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Chemistry The Easy Way covers Atomic Structure Chemical Formulas Electrochemistry The Basics of Organic Chemistry And more

Introduction to Toxicological Screening Methods and Good Laboratory Practice Saravana Babu Chidambaram,M. Mohamed Essa,M. Walid Qoronfleh,2022-02-11 This book focuses on the principles methods and interpretation involved in establishing the safety risk and hazard assessment of small molecules It presents the regulatory requirements for risk and hazard identification as per the guidelines of the Organization for Economic Cooperation and Development OECD Paris and the International Council for Harmonisation ICH of Technical Requirements for Pharmaceuticals for Human Use ICH and Schedule Y India It serves as reference material for undergraduate and postgraduate pharmacy degree students as well as senior researchers to learn about the principles methods and interpretations of systemic dosage acute and repeated dose and

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100 technical questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry [The History and Use of Our Earth's Chemical Elements](#) Robert E. Krebs,2006-07-30 Understanding the Periodic Table of Chemical Elements is critical for success in the chemistry classroom and laboratory In today s classroom students not only need to understand the properties of the chemical elements but how these elements play such an integral role in industry the earth and the environment and in modern life No resource provides a better introduction than Robert Krebs s The History and Use of Our Earth s Chemical Elements In this thoroughly revised edition with extensive new examples on the importance of the chemical elements the elements are examined within their groups enabling students to make connections between elements of similar structure In addition the discovery and history of each element from those known from ancient times to those created in the modern laboratory is explained clearly and concisely Understanding the Periodic Table of Chemical Elements is critical for success in the chemistry classroom and laboratory In today s classroom students not only need to understand the properties of the chemical elements but how these elements play such an integral role in industry the earth and the environment and in modern life No resource provides a better introduction than Robert Krebs s The History and Use of Our Earth s Chemical Elements In this thoroughly revised edition with extensive new and updated examples on the use of the chemical elements the elements are examined within their groups enabling students to make connections between elements of similar structure In addition the discovery and history of each element from those known from ancient times to those created in the modern laboratory is explained clearly and concisely In addition to the handy Guide to the Chemical Elements that comprises the bulk of the work The History and Use of Our Earth s Chemical Elements includes other useful features Introductory material on the basics of chemistry and the Periodic Table Appendices on the discoverers of the chemical elements A glossary of words

commonly used in chemistry and chemical engineering A complete bibliography of useful resources including websites All of this information makes The History and Use of Our Earth s Chemical Elements the ideal one volume resource for understanding the importance of the chemical elements New Coordinated Science: Chemistry Students' Book RoseMarie Gallagher,R. Gallagher,Paul Ingram,2001-07-19 Provides information in manageable chunks which is reinforced by questions and activities that encourage students to consider the practical application of science to everyday life This work is useful for Higher Tier GCSE students Parallel Curriculum Units for Science, Grades 6-12 Jann H. Leppien,Jeanne H. Purcell,2011-02-15 Based on the best selling book The Parallel Curriculum this resource deepens teachers understanding of how to use the Parallel Curriculum Model PCM to provide rigorous learning opportunities for students in science grades 6 12 This collection of sample units and lessons within each unit were developed by experienced teachers and demonstrate what high quality curriculum looks like within a PCM framework Ideal for use with high ability students the units revolve around genetics the convergence of science and society the integration of English and Biology and the Periodic Table Lessons include pre and post assessments **Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education** Alam, Firoz,2014-01-31 Many can now conclude that utilizing educational technologies can be considered the primary tools to inspire students to learn Combining these technologies with the best teaching and learning practices can engage in creativity and imagination in the engineering field Using Technology Tools to Innovate Assessment Reporting and Teaching Practices in Engineering Education highlights the lack of understanding of teaching and learning with technology in higher education engineering programs while emphasizing the important use of this technology This book aims to be essential for professors graduate and undergraduate students in the engineering programs interested learning the appropriate use of technological tools **Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2015-04-30 Educational pedagogy is a diverse field of study one that all educators should be aware of and fluent in so that their classrooms may succeed Curriculum Design and Classroom Management Concepts Methodologies Tools and Applications presents cutting edge research on the development and implementation of various tools used to maintain the learning environment and present information to pupils as effectively as possible In addition to educators and students of education this multi volume reference is intended for educational theorists administrators and industry professionals at all levels 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

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Periodic Trends Lab Question Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Periodic Trends Lab Question Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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