

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 :)

Graphing Periodic Relationships Lab Answers

Yi-Tong Ma

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.

Graphing Periodic Relationships Lab Answers:

Laboratory Manual Jo A. Beran,1990 General, Organic, and Biological Chemistry Study Guide and Selected Solutions Karen C. Timberlake,2001-11 Keyed to the learning goals in the text this guide is designed to promote active learning through a variety of exercises with answers and mastery exams The guide also contains complete solutions to odd numbered problems Mathematical Foundations and Applications of Graph Entropy Matthias Dehmer, Frank Emmert-Streib, Zengqiang Chen, Xueliang Li, Yongtang Shi, 2017-09-12 This latest addition to the successful Network Biology series presents current methods for determining the entropy of networks making it the first to cover the recently established Quantitative Graph Theory An excellent international team of editors and contributors provides an up to date outlook for the field covering a broad range of graph entropy related concepts and methods The topics range from analyzing mathematical properties of methods right up to applying them in real life areas Filling a gap in the contemporary literature this is an invaluable reference for a number of disciplines including mathematicians computer scientists computational biologists and structural chemists Chemistry Frank Jenkins,1992 **Technical Reports Awareness Circular : TRAC.** ,1987-08

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 The Zinc and Iodine Book Stephen DeMeo,2019-05-15 This book is for chemistry teachers who are thinking about reinventing their laboratory experiments that they provide to their students More than a collection of experiments it is an example of using a chemical theme to teach chemistry Instead of introducing many different chemicals per experiment as is the norm in most lab manuals this novel resource focuses on two commonly found elements Zinc and Iodine So what is so special about these elements At the heart of this resource is a colorful cyclic reaction between zinc and iodine one that produces a compound that can decompose back to its original elements This unique phenomenon demonstrates that matter not only changes but is also conserved through a chemical reaction Knowing that a compound can be the same but different than the reactants that formed it is to understand the essence of chemical change Complementing this reaction this book contains experimental activities that utilize the zinc and iodine theme to scaffold new concepts such as the properties of matter solid and gas stoichiometry equilibrium kinetics acid base chemistry and electrochemistry This teacher tested resource focuses on a set of safe substances that are appropriate for high school teachers who provide an advanced chemistry placement course and for college instructors teaching a first year chemistry

laboratory sequence *Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Chemistry** Karen Timberlake, 1999 Suitable for one or two term lab courses covering general organic and biological chemistry this new edition written by Karen Timberlake features many improvements to the insightful experiments that have made it the leading lab manual Each experiment encourages critical thinking with laboratory goals discussion of related concepts clear instructions new pre lab questions and comprehensive report pages Forty one experiments illustrate the basic principles of chemistry

Scientific and Technical Aerospace Reports ,1994-05 **Nuclear Science Abstracts** ,1961 *Do Not Erase* Jessica Wynne, 2021-06-22 A photographic exploration of mathematicians chalkboards A mathematician like a painter or poet is a maker of patterns wrote the British mathematician G H Hardy In *Do Not Erase* photographer Jessica Wynne presents remarkable examples of this idea through images of mathematicians chalkboards While other fields have replaced chalkboards with whiteboards and digital presentations mathematicians remain loyal to chalk for puzzling out their ideas and communicating their research Wynne offers more than one hundred stunning photographs of these chalkboards gathered from a diverse group of mathematicians around the world The photographs are accompanied by essays from each mathematician reflecting on their work and processes Together pictures and words provide an illuminating meditation on the unique relationships among mathematics art and creativity The mathematicians featured in this collection comprise exciting new voices alongside established figures including Sun Yung Alice Chang Alain Connes Misha Gromov Andre Neves Kasso Okoudjou Peter Shor Christina Sormani Terence Tao Claire Voisin and many others The companion essays give insights into how the chalkboard serves as a special medium for mathematical expression The volume also includes an introduction by the author an afterword by New Yorker writer Alec Wilkinson and biographical information for each contributor *Do Not Erase* is a testament to the myriad ways that mathematicians use their chalkboards to reveal the conceptual and visual beauty of their discipline shapes figures formulas and conjectures created through imagination argument and speculation **Calculus Laboratories Using DERIVE** L. Carl Leinbach, 1991 *U.S. Government Research Reports* ,1962 Technical Abstract Bulletin Defense Documentation Center (U.S.), 1962 *Selected Water Resources Abstracts* ,1990 **Discovering Biomolecular Mechanisms with Computational Biology** Frank Eisenhaber, 2007-03-20 This anthology presents critical reviews of methods and high impact applications in computational biology that lead to results that non bioinformaticians must also know to design efficient experimental research plans *Discovering Biomolecular Mechanisms with Computational Biology* explores the methodology of translating sequence strings into biological knowledge and considers exemplary groundbreaking results such as unexpected enzyme discoveries This book also summarizes non trivial theoretical predictions for regulatory and metabolic networks that have received experimental confirmation **Big Data Analytics in Chemoinformatics and Bioinformatics** Subhash C. Basak, Marjan Vračko, 2022-12-06 *Big Data Analytics in Chemoinformatics and Bioinformatics With Applications to Computer Aided Drug Design Cancer Biology Emerging*

Pathogens and Computational Toxicology provides an up to date presentation of big data analytics methods and their applications in diverse fields The proper management of big data for decision making in scientific and social issues is of paramount importance This book gives researchers the tools they need to solve big data problems in these fields It begins with a section on general topics that all readers will find useful and continues with specific sections covering a range of interdisciplinary applications Here an international team of leading experts review their respective fields and present their latest research findings with case studies used throughout to analyze and present key information Brings together the current knowledge on the most important aspects of big data including analysis using deep learning and fuzzy logic transparency and data protection disparate data analytics and scalability of the big data domain Covers many applications of big data analysis in diverse fields such as chemistry chemoinformatics bioinformatics computer assisted drug vaccine design characterization of emerging pathogens and environmental protection Highlights the considerable benefits offered by big data analytics to science in biomedical fields and in industry

Energy Research Abstracts ,1993 Big Data Analytics

Vasudha Bhatnagar,Srinath Srinivasa,2013-12-06 This book constitutes the thoroughly refereed conference proceedings of the Second International Conference on Big Data Analytics BDA 2013 held in Mysore India in December 2013 The 13 revised full papers were carefully reviewed and selected from 49 submissions and cover topics on mining social media data perspectives on big data analysis graph analysis big data in practice

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