

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	264	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 Properties Graphing Lab Answer Key

**Thirumalaisamy P.
Velavancorresponding**



Periodic Properties Graphing Lab Answer Key:

EPIE Materials Report, 1978 EPIE Materials Report EPIE Institute, 1978 **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 **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 *Chemistry: Molecules, Matter, and Change Media Activities Book* Loretta Jones, Carl Hoeger, Peter William Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begin with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs *Analytical Chemistry* Bryan M. Ham, Aihui MaHam, 2024-02-28 ANALYTICAL CHEMISTRY Detailed reference covering all aspects of working in laboratories including safety fundamentals of analytical techniques lab instrumentation and more A comprehensive study of analytical chemistry as it pertains to the laboratory analyst and chemist Analytical Chemistry begins with an introduction to the laboratory environment including safety glassware common apparatuses and lab basics and continues on to guide readers through the fundamentals of analytical techniques such as spectroscopy and chromatography and introduce examples of laboratory programs such as Laboratory Information Management Systems LIMS This newly updated and revised Second Edition of Analytical Chemistry offers expanded chapters with new figures and the latest developments in the field Included alongside this new edition is an updated companion teaching reference and toolkit program called ChemTech Conveniently available via either app or browser the ChemTech program contains exercises that highlight and review topics covered in the book and features useful calculators and programs including solution makers graphing tools and more To aid in reader comprehension the program also includes an interactive periodic table and chapter summaries Written by two highly qualified authors with significant experience in both practice and academia Analytical Chemistry covers sample topics such as Basic mathematics in the laboratory including different units the metric system significant figures scientific calculators and ChemTech conversion tools Analytical data treatment including errors in the laboratory precision versus accuracy normal distribution curves and determining errors in methodology Plotting and graphing including graph construction curve fitting graphs of specific equations least squares method and computer

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Prentice Hall Science Explorer Michael J. Padilla,2002 *Visualization: Theory and Practice in Science Education*

John K. Gilbert,Miriam Reiner,Mary Nakhleh,2007-12-05 External representations pictures diagrams graphs concrete models have always been valuable tools for the science teacher This book brings together the insights of practicing scientists science education researchers computer specialists and cognitive scientists to produce a coherent overview It links presentations about cognitive theory its implications for science curriculum design and for learning and teaching in classrooms and laboratories

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Prentice Hall Chemistry ,2000 **Energy Research Abstracts** ,1991-10 *U.S. Government Research Reports*

,1958 *AETS Yearbook* ,1988 *Laboratory Manual* Jo A. Beran,1990 **The Crestfallen Rose** Michael

Martin,2011-08-31 The Crestfallen Rose merges the journey of a child born blind with that of two women whose lives are devastated in pre World War II Germany into an exciting tale of love and death Samantha Talbot is born blind Her mother Ally searches for the cause She finds a mysterious link to a pesticide and Worldwide Chemical No lawyer will touch her case until a former District Attorney David King agrees to fight for she and Sam Decades before Samanthas birth Amalia Hecht and her uncle Karl perfect a miracle pesticide that is sought by the Gestapo They pass it secretly to an American agent Hunted by the police they flee Germany Amalia befriends Rachel Wisemann a young girl at the Swiss border Ally Samantha

and David face Worldwide Chemical in Federal Court in Miami their quest frustrated by an ambitious judge unscrupulous lawyers and a callous opponent Deftly drawn protagonists Ally David Amalia and Rachel become one with the reader in a thrilling tale 5 Star reviews Amazon and Barnes Noble www.thecrestfallenrose.com **Activity report** Brookhaven National Laboratory. National Synchrotron Light Source,2005 **Nuclear Science Abstracts** ,1973 Technical Abstract Bulletin ,
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