

Graphing Periodic Trends Activity

Name: _____ Period: _____

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

Symbol	Atomic Radius (Picometers)	First Ionization energy (kJoules/mole)	Electronegativity (4-point scale)
H	31	1312	2.1
Li	128	520	1.0
Na	166	496	0.9
K	203	410	0.8
Rb	220	403	0.8
Cs	244	376	0.7

Symbol	Atomic Radius (Picometers)	First Ionization energy (kJoules/mole)	Electronegativity (4-point scale)
Na	166	496	0.9
Mg	141	738	1.2
Al	121	578	1.5
Si	111	787	1.8
P	107	1012	2.1
S	105	1000	2.5
Cl	102	1251	3.0
Ar	106	1521	---

1. Using colored pencils or pen, list under the symbol (in this order!) the Atomic Radius, First Ionization Energy, and Electronegativity.
2. 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)

H	<p>Across a period (→) atomic radius tends to _____.</p> <p>Across a period (→) first ionization energy tends to _____.</p> <p>Across a period (→) electronegativity tends to _____.</p>						
Li							
Na 166 496 0.9	Mg	Al	Si	P	S	Cl	Ar
K	<p>Down a Group (↓) atomic radius tends to _____.</p> <p>Down a Group (↓) first ionization energy tends to _____.</p> <p>Down a Group (↓) electronegativity tends to _____.</p>						
Rb							
Cs							

Periodic Trends Graphing Lab Answers

Karen Timberlake



Periodic Trends Graphing Lab Answers:

Computer Based Projects for a Chemistry Curriculum Thomas J. Manning, Aurora P. Gramatges, 2013-04-04 This e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level. The e book contains 24 chapters each containing various activities employing applications such as MS excel spreadsheets and Spartan computational modeling. Each project is explained in a simple easy to understand manner. The content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises. Computer Based Projects for a Chemistry Curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom.

The Science Teachers Bulletin, 1989

EPIE Materials Report, 1978

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.

Laboratory Manual Jo A. Beran, 1990

Analytical Chemistry Bryan M. Ham, Aihui Ma, 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

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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

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Chemistry John S. Phillips, Cheryl Wistrom, 2000 Prentice Hall Chemistry, 2000 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

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Comprehensive Chemistry XI , 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

Chemistry McGraw-Hill Staff, 2001-07 **Scientific and Technical Aerospace Reports** , 1990 **Advanced Engineering Mathematics** Dennis Zill, Warren S. Wright, 2011 Accompanying CD ROM contains a chapter on engineering statistics and probability by N Bali M Goyal and C Watkins CD ROM label AETS Yearbook , 1988

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