

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

Graphing Lab Periodic Trends Answer Key

Jo A. Beran



Graphing Lab Periodic Trends Answer Key:

Laboratory Manual Jo A. Beran,1990 *The Science Teachers Bulletin* ,1989 Comprehensive Chemistry XI ,
Microscale General Chemistry Laboratory Zvi Szafran,Ronald M. Pike,Judith C. Foster,2012-04-13 In the past two decades microscale techniques have soared in popularity because these techniques minimize exposure to potentially dangerous chemicals in the lab drastically cut the amount of chemical waste lower costs and reduce risks of chemical fires and explosions The result is a safer and healthier laboratory environment Now with Microscale General Chemistry Laboratory with Selected Macroscale Experiments Second Edition you can bring these techniques into your own chemistry lab Thoroughly revised with updated experiments the new Second Edition continues to offer a large variety of well designed easy to follow experiments as well as thorough background information and an outstanding selection of questions and problems *Prentice Hall Science Explorer* Michael J. Padilla,2002 *Prentice Hall Chemistry* ,2000 **The Software Encyclopedia 2001** ,2001 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1976 *Selected Water Resources Abstracts* ,1980 **Metaheuristics for Vehicle Routing Problems** Nacima Labadie,Christian Prins,Caroline Prodhon,2016-02-23 This book is dedicated to metaheuristics as applied to vehicle routing problems Several implementations are given as illustrative examples along with applications to several typical vehicle routing problems As a first step a general presentation intends to make the reader more familiar with the related field of logistics and combinatorial optimization This preamble is completed with a description of significant heuristic methods classically used to provide feasible solutions quickly and local improvement moves widely used to search for enhanced solutions The overview of these fundamentals allows appreciating the core of the work devoted to an analysis of metaheuristic methods for vehicle routing problems Those methods are exposed according to their feature of working either on a sequence of single solutions or on a set of solutions or even by hybridizing metaheuristic approaches with others kind of methods

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