

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 :)

Graphing Periodic Relationships Lab Answer Key

Jicheng Xie



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Chemistry Frank Jenkins,1992 *Scientific and Technical Aerospace Reports* ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Energy Research Abstracts** ,1993 **Selected Water Resources Abstracts** ,1980 **Environment Abstracts** ,1983 Current Index to Journals in Education ,1998-07
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Congressional Record United States. Congress,1976 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 Government Reports Announcements ,1972-04 **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 **Mathematics & Science in the Real World** ,2000 *Land Use Planning Abstracts* ,1978 **U.S. Government Research & Development Reports** ,1971 **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1962 **Operational Radiation Safety** ,1999 **Congressional Record** United States. Congress,1976 *Journal of Engineering Education* ,1996 *Bibliography of Scientific and Industrial Reports* ,1971

Unveiling the Magic of Words: A Overview of "**Graphing Periodic Relationships Lab Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Graphing Periodic Relationships Lab Answer Key**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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