

## 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 (A-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 (A-point scale)
Na	190	496	0.9
Mg	141	738	1.2
Al	121	578	1.5
Si	111	787	1.8
P	107	1012	2.1
S	104	1000	2.0
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

**JE Gale**



## **Graphing Periodic Relationships Lab Answers:**

## Adopting the Track of Phrase: An Mental Symphony within **Graphing Periodic Relationships Lab Answers**

In a world consumed by screens and the ceaseless chatter of instant interaction, the melodic elegance and psychological symphony created by the published word often disappear into the backdrop, eclipsed by the relentless noise and distractions that permeate our lives. However, situated within the pages of **Graphing Periodic Relationships Lab Answers** a stunning fictional value full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this interesting masterpiece conducts readers on a psychological journey, well unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of the moving examination, we will discover the book is main harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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