

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 (kilojoules/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 (kilojoules/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 Answers Key

Xiang Xie



Periodic Trends Answers Key:

The Enigmatic Realm of **Periodic Trends Answers Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Periodic Trends Answers Key** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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