

Periodic Trends Worksheet

Directions: Use your notes to answer the following questions.

1. Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

Oxygen < Carbon < Aluminum < Potassium

2. Rank the following elements by increasing electronegativity: sulfur, oxygen, neon, aluminum.

Neon < Aluminum < Sulfur < Oxygen

3. Why does fluorine have a higher ionization energy than iodine?

Fluorine has nine protons attracting 9 electrons which are much closer to the nucleus compared to Iodine. This results in smaller size of Fluorine than Iodine making it difficult to remove an electron from the atom.

4. Why do elements in the same family generally have similar properties?

Because they have same number of electrons in the outer shell (valence electrons) which take part in chemical reaction.

5. Indicate whether the following properties increase or decrease from left to right across the periodic table.

- | | |
|--|-----------|
| a. atomic radius (excluding noble gases) | Decreases |
| b. first ionization energy | Increases |
| c. electronegativity | Increases |

6. What trend in atomic radius occurs down a group on the periodic table? What causes this trend?

Atomic radius **increases** down the group on the periodic table. As we compare the elements down the group, the effective nuclear charge increases, but at the same time the outermost electrons are found in the shell that is farther away from the nucleus. Also the number of screening electrons increases. This results in reduced attraction between the nucleus and the outermost electrons.

7. What trend in ionization energy occurs across a period on the periodic table? What causes this trend?

Ionization energy **increases** from left to right across the period. The atomic size becomes smaller from left to right. So it becomes harder to remove electron from the atom. Hence the energy required to do so (Ionization Energy) increases.

Periodic Trends And Atomic Properties Pogil Worksheet

Answer Key

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Periodic Trends And Atomic Properties Pogil Worksheet Answer Key:

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Periodic Trends And Atomic Properties Pogil Worksheet Answer Key**

In some sort of inundated with screens and the cacophony of fast connection, the profound power and emotional resonance of verbal beauty frequently fade into obscurity, eclipsed by the constant onslaught of noise and distractions. However, set within the lyrical pages of **Periodic Trends And Atomic Properties Pogil Worksheet Answer Key**, a captivating perform of fictional splendor that pulses with natural emotions, lies an unforgettable journey waiting to be embarked upon. Published with a virtuoso wordsmith, that mesmerizing opus books viewers on a psychological odyssey, lightly exposing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect their interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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some info on who or where they are sold. My best guess is K- ... K-Gro PowerPro Repair The K-Gro PowerPro is a riding lawnmower with a 12 or 18 HP engine option. This rideable lawnmower was produced by MTD and Murray for K-Mart in 1997. The 12 HP ... Pro Power - Professional Power Products Pro Power is family owned and operated with 3 active ... Lawn Mowers · Spartan Mowers · Parts · Service · Articles · Contact Us · Promotions · Pro Power © Go Pro ... PowerPro Riding Mowers Parts with Diagrams All models of PowerPro Riding Mowers. Fix it fast with OEM parts list and diagrams. Free Power Pro Riding Mower Part 1 - YouTube PowerPro Lawn Mower, Quantum 5 HP E... PowerPro Lawn Mower, Quantum 5 HP Engine, Model# RBSP225QAM, Serial# 051696M 002111. Details; Terms; Directions; Shipping. Please call Mike at 612-432-1321 with ...