

## 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) | <b>Decreases</b> |
| b. first ionization energy               | <b>Increases</b> |
| c. electronegativity                     | <b>Increases</b> |

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 Worksheet Extension Questions Key

**M Walker**



## **Periodic Trends Worksheet Extension Questions Key:**

## Adopting the Song of Appearance: An Mental Symphony within **Periodic Trends Worksheet Extension Questions Key**

In some sort of taken by monitors and the ceaseless chatter of fast transmission, the melodic elegance and emotional symphony developed by the prepared word usually disappear in to the back ground, eclipsed by the constant sound and distractions that permeate our lives. However, located within the pages of **Periodic Trends Worksheet Extension Questions Key** a wonderful fictional value filled with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this interesting masterpiece conducts viewers on an emotional journey, well unraveling the concealed songs and profound influence resonating within each carefully crafted phrase. Within the depths with this moving review, we shall explore the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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