

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 Review Packet Answer Key

The Princeton Review



Periodic Trends Review Packet Answer Key:

Embracing the Song of Phrase: An Psychological Symphony within **Periodic Trends Review Packet Answer Key**

In a global taken by displays and the ceaseless chatter of immediate transmission, the melodic beauty and mental symphony produced by the published word usually disappear into the back ground, eclipsed by the persistent sound and distractions that permeate our lives. Nevertheless, set within the pages of **Periodic Trends Review Packet Answer Key** an enchanting fictional treasure overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this fascinating masterpiece conducts visitors on an emotional trip, skillfully unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths of this poignant assessment, we will investigate the book is central harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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