

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.

Answers To Periodic Trends Packet

M Woodhall



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transformation have occurred the book places these changes in the context of the political social and economic dynamics of the global telecommunications industry Drawing on 25 years of participative experience in the mobile phone and telecommunications industry the author closely analyses the materials components and devices that have had a transformative impact By presenting detailed case studies of materials innovation such as those shown at success story Apple the book shows how the collaboration of technological imagination with business knowledge will shape the industry s future Makes a link between the technical aspects and the business practice of the telecoms industry highlighting the commercial and economic significance of new developments Gives a historical analysis of past successes and failures in order to identify future competitive advantage opportunities Supplies detailed case studies of supply chain disconnects and the impact these have on industry risk and profitability Brings together technological detail with analysis of what is and is not commercially important from the implications of energy and environmental networks to the technical details of wireless network hardware

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