

Periodic Trends Practice



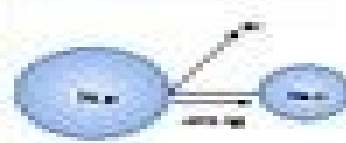
Atomic Radius

The distance from the nucleus of one bonded atom.



Electronegativity

How much an atom "wants" electrons or the atom's tendency to attract electrons.



Ionization Energy

The amount of energy required to remove electrons from an atom.



Electron Affinity

The amount of energy released when a neutral gaseous atom gains an electron.



Driving Question

How can the periodic table be used to predict atomic characteristics such as atomic radius, electronegativity, ionization energy, and electron affinity?

Describe what causes this trend...

As you move from left to right across a period, the number of protons increases, which increases the pull on the electrons, causing the atomic radius to decrease.

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Shielding?

What is shielding? What effect does it have on the periodic trends defined above?

Shielding occurs when inner electrons block out the positive pull of the nucleus, making it harder for the outer electrons to feel the pull of the nucleus. This causes the atomic radius to increase, electronegativity to decrease, ionization energy to decrease, and electron affinity to also decrease.

Add arrows to each of the following periodic tables to indicate the direction of the trend as it increases or decreases from left to right and top to bottom. If two trends use a different color for each of the periodic tables so you can easily remember them.



Practice Identifying Periodic Trends

**Lewis A. Hassell, Michael L.
Talbert, Jane Pine Wood**



Practice Identifying Periodic Trends:

Practice Identifying Periodic Trends Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Practice Identifying Periodic Trends**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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