

1.4: Periodic Properties of the Elements

Learning objectives for this unit are to:

- Define the following atomic properties: ionization energy, electron affinity, electronegativity, atomic size
 - Recall the general trends in atomic properties
 - Rationalize or predict periodic trends in atomic radii, ionization energies, and electron affinities using the concepts of effective nuclear charge, electron shielding, electron penetration, and the lanthanide contraction.
 - Identify and utilize other periodic trends such as the “diagonal relationship” and the “uniqueness principle”
-

1.4: Periodic Properties of the Elements is shared under a [CC BY-SA](#) license and was authored, remixed, and/or curated by LibreTexts.