

Periodic Table Trend Activities:



Purpose: The Periodic Table is a useful tool that helps us predict properties of various elements. In this activity, we will look at 3 properties:

1. **Atomic radius:** The distance from the atomic nucleus to the outmost occupied orbital in a atom
2. **Electronegativity:** The ability of an atom to attract a bonded pair of electrons from another atom
3. **Ionization Energy:** The energy needed to remove an electron from a neutral gaseous atom
4. **Electron Affinity:** The energy released when an electron is added to a neutral gaseous atom

Procedure: Click on the [Cool Periodic Table link](#) (click on the element symbol). Record the atomic radius, electronegativity, and first ionization energy for each element in the table below:

<http://www.lyncsburg.net/hhs/chemistry/trends/>

Data:

Element	Atomic Radius	Electronegativity	1 st Ionization Energy
Li			
Be			
B			
Na			
Mg			
Al			
C			
Si			
N			
P			

Discussion:

1. What appears to be the trend in atomic radius as you move from left to right in a row?
2. What appears to be the trend in atomic radius as you move down a column?

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