

## PERIODIC TRENDS

Periodic trends are patterns in elements on the periodic table. Major trends are electronegativity, ionization energy, electron affinity, atomic radius, and metallic character. The existence of these trends is due to the similarity in atomic structure of the elements in their group families or periods and because of the periodic nature of elements. These trends are readily mapped to the periodic table; however, there are numerous exceptions that exist for all the trends. This will focus on the trends alone.

### **Electronegativity:**

Electronegativity is a measure of attraction an atom has for bonding electrons or how b

## Electron affinity:

Electron affinity is the ability of an atom to accept an electron. This is a quantitative measurement of the energy change occurring when an electron is added to a neutral gas atom.

Like ionization energy, there is an electron affinity measured for an atom for each successive electron added.

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