

Periodic Trend Definitions

Atomic Radius, Electronegativity, and Ionization
Energy

Periodic Trends

Definition: a pattern of behavior on the periodic table

- Defined for a group



- Defined for a period

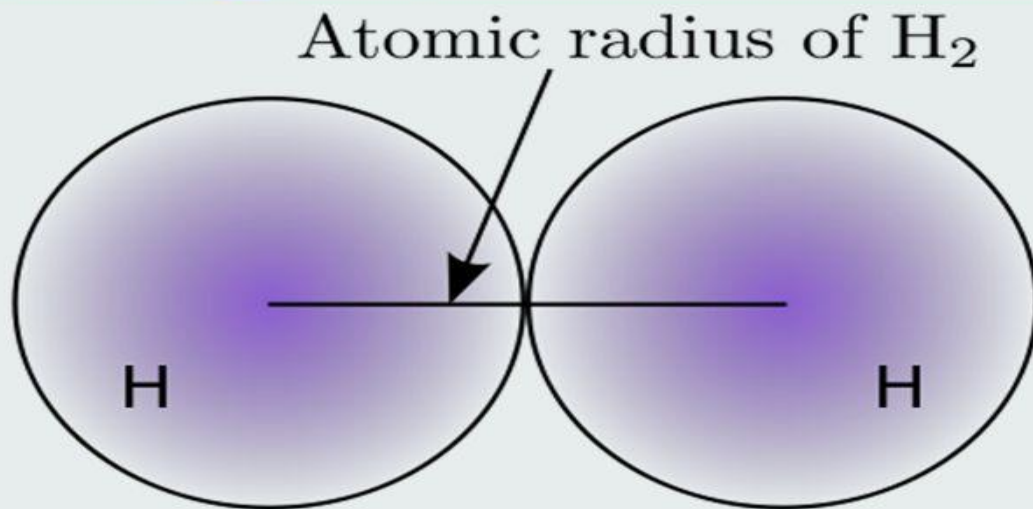


Some Examples:

- **Atomic Size:**
- **Electronegativity:**
- **Ionization Energy:**

ATOMIC RADIUS

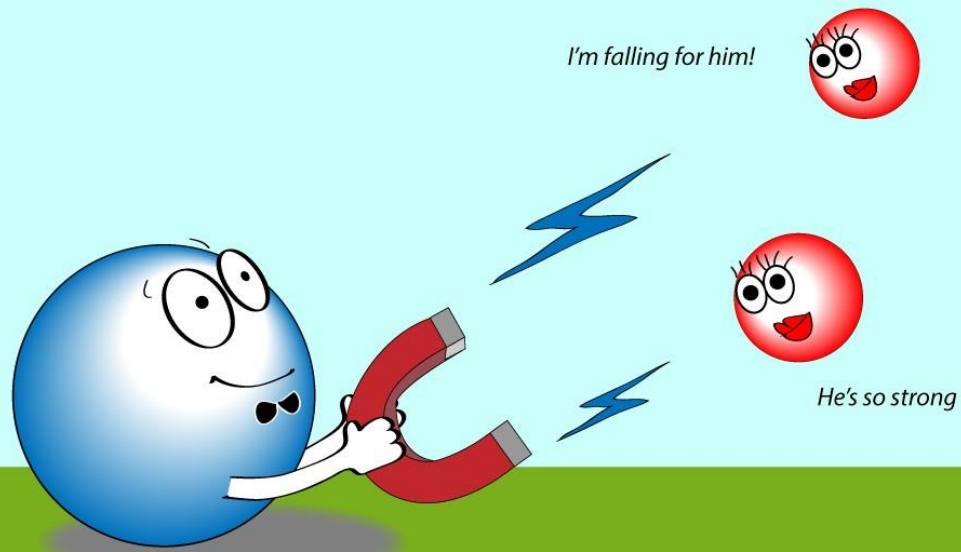
Definition: $\frac{1}{2}$ the distance between the nuclei of two identical touching atoms



Electronegativity

- “Atom’s” ability to attract electrons
- Think about what in an atom attracts electrons

ADAM’S TENDENCY TO ATTRACT A BONDING PAIR OF ELECTRONS



ELECTRONEGATIVITY



Ionization Energy

- Ionization Energy is defined as the amount of energy required to remove an electron from an atom or ion.

