

## Unit #1: Matter and Bonding

### The Learning Goals For This Unit

#### 1. The Atom

- models (Dalton, Thomson, Rutherford, Bohr)
- #p,n,e
- isotopes, ions
- average atomic mass

#### 2. Periodic Trends

- AR,IE,EA,EN, metal/nonmetal reactivity
- ionic radius

#### 3. Bonding

- ionic bonding (Lewis structures)
- covalent bonding (Lewis structures) - pure, polar, coordinate, metallic
- properties (see lab)
- inter/intramolecular forces - predict mp/bp