Review Test 2  
CHM 1032C

*memorize the names and symbols of the first 36 elements.

1) Bonds
   • COVALENT VS IONIC
   • Ionic (charges on various atoms)
     a) Polyatomic ions
        *memorize the names, formulas and charges for the polyatomic ions*
     b) Naming Ionic compounds

   • Covalent bonds
     a) naming binary covalent compounds
     b) sharing electrons
     c) Lewis Structures
        • Polyatomic ions (Be able to draw Lewis structures for all 10)
     d) Formal Charges
     e) Single double and triple bonds
     f) Molecular Geometry/Shape
        1) Bond angles
        2) electron pair geometry
     g) non polar vs. polar bonds
        1) electronegativity & Dipoles

2) Organic chemistry
   a) Writing organic structures
      i) Be able to inter-convert line segment, condensed and complete structural formulas. Know how to find the molecular formula.
   b) Identify functional groups (No chart will be provided)
      1) carboxylic acids
      2) ketones
      3) aldehydes
      4) amines
      5) alcohols
      6) esters
      7) alkene, alkynes, aromatics
   ii) Naming hydrocarbons