

Chapter 6 – Study Guide

Test Date: Friday, December 19, 2014

Use the following to study:

Textbook – Ch. 6

Ch. 6 homework packet

Chemical Bonding:

- **Four types of bonds:**
 - *Nonpolar Covalent Bond* (ΔEN (difference in electronegativity) = < 0.3)
 - EQUAL SHARING of electrons between the 2 bonding nonmetal atoms
 - *Polar Covalent Bond* ($\Delta EN = 0.4-1.7$)
 - UNEQUAL SHARING of electrons between the 2 bonding nonmetal atoms (because EN is much higher in one atom, the electrons are pulled closer to the atom in the bond with the higher EN value – like an uneven tug of war)
 - *Ionic Bond* ($\Delta EN = > 1.7$)
 - Difference in the EN values for the 2 bonding atoms (metal & nonmetal) is so large that the atom with the lower EN value ends up completely GIVING UP/TRANSFERRING ELECTRONS to the atom with the greater EN value
 - Ionic bond results due to the attraction between the POSITIVE cation (formed by losing electrons) and the NEGATIVE anion (formed by gaining electrons)
 - *Metallic Bond*
 - Bonding between two metallic atoms which occurs due to the attraction between a "sea of electrons" and the nuclei of bonded metal atoms
- * Must memorize/know the difference in electronegativity ranges for each type of bond
 - ** Note: you should still know the definition of electronegativity (EN)
- **Properties of the Four Types of Chemical Bonds**
 - See the table at the bottom of Packet pg.5
 - You MUST be able to compare all four examples – NaCl (ionic), Sucrose (Polar), Stearic Acid/Wax (nonpolar), and Aluminum & Mercury (metallic) – in terms of melting point, conductivity of solid, solubility in water, conductivity in water (when applicable), solubility in hexane, hardness (ease with which it is scratched), and brittleness
- **Why & How do chemical bonds form?**
 - Why → because all atoms want to be at their LOWEST POTENTIAL ENERGY; for nearly all atoms (except the noble gases) this happens only when an atom chemically bonds to other atoms!!!
 - How → ATTRACTIVE and REPULSIVE forces
 - *Attractive forces* – positively charged nucleus of one atom is attracted to electrons in another atom nearby (because they have opposite charges)
 - *Repulsive forces* – 2 nuclei or 2 sets of electron clouds from nearby atoms repel one another (because they have the same charge)
 - **Bond Length**
 - ideal distance between 2 atoms that gives the lowest potential energy of the atoms by balancing out attractive & repulsive forces)
 - **Bond Energy**
 - Energy required to break apart a chemical bond (the higher the bond energy, the stronger the bond)

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C. Dennison



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