

## Biology Study Guide

### Chapter 2 – The Chemistry of Life

1. Study any Quizlets made for chapter 2.
2. Be able to state how many atoms are in certain compounds.
3. Compare and contrast the types of bonding.
4. Give examples of chemical and physical changes.
5. Give examples of some lipids.
6. How do you know if a compound is a carbohydrate?
7. What are clues that a chemical change has taken place?
8. What are the characteristics of enzymes?
9. What are the differences between diffusion and osmosis?
10. What are the four groups of organic compounds and their functions?
11. What is contained in a nucleotide?
12. What is the difference between a chemical and physical change?
13. Know/Apply the following terms:
  - Acid
  - Activation energy
  - Amino acids
  - Bases
  - Biosynthesis
  - Buffers
  - Catalysts
  - Cellulose
  - Coenzymes
  - Colloid
  - Covalent bonding
  - Diffusion
  - DNA
  - Double helix
  - Element
  - Endothermic
  - Energy
  - Enzymes
  - Equilibrium
  - Homogenous mixture
  - Hydrogen bonds
  - Hydrolysis
  - Hydrophilic
  - Hydrophobic
  - Ion
  - Ionic bonding
  - Isotopes
  - Kinetic energy
  - Lipid
  - Matter
  - Molecule
  - Neutralize
  - Neutrons
  - Nucleic acids
  - Nucleotides
  - Oils
  - Osmosis
  - Phospholipids
  - Physical change
  - Polysaccharides
  - Potential energy
  - Proton
  - Semipermeable
  - Solvent
  - Steroid
  - Suspension
  - Transcription
  - Triglycerides
  - Universal solvent