College Prep Biology Study Guide for Finals, Semester 1

Chapter 1: The Chemistry of Life

- 1. Atoms, Elements, Compounds, Molecules
 - * Definitions
 - Level of Complexity
- 2. Structure of an Atom
 - Location/Charge of the three subatomic particles
- 3. Chemical Formulas
 - * Subscripts, Coefficients, Reactants, Products
- 4. Chemical Bonds
 - * Ionic Bonds: How do they form?
 - * Covalent Bonds: How do they form?
- 5. pH Scale
 - *Acids (pH Range, concentration of ions)
 - * Bases (pH Range, concentration of ions)
- 6. Organic Compounds
 - * 4 organic compounds
 - * Know the structure of each and types of bonds holding them together
 - * What determines the 3 dimensional shape of a protein
- 7. Genetic Code
 - * Know the people who contributed to the development of the DNA model
 - * How do DNA strands pair?
 - * Where is DNA and RNA found in the cell?

Chapter 2: Energy, Life and the Biosphere

- 1. Characteristics of Living Things
- 2. Autotrophs vs. Heterotrophs
- 3. Food Webs
 - * Levels
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 - * Role of decomposers
- Laws of Thermodynamics: Role of energy in maintaining organization of a system.
- 5. Role of Enzymes in a chemical reaction.
- 6. Oxidation vs. Reduction reactions
- 7. Digestion
 - * Role of Surface Area
 - * Role of individual organs, enzymes in the digestive system.

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