Loving's A&P I – Chapter 2 – Terms

Highlighted terms are introduced during lab

Non-highlighted terms are emphasized during lecture

Matter
Energy
- Kinetic Energy
- Potential Energy
- Forms of energy; chemical, electrical, mechanical, etc.

Elements
Atoms
Atomic Symbol

Atomic Structure:
- Nucleus
  - Protons, neutrons
- Electrons
- Electron orbitals
- Atomic Mass Unit
- Atomic Number
- Mass Number
- Isotopes
- Radioisotopes
- Atomic Weight

Molecules & Compounds

Solutions
- Solute
- Solvent
- Percent (solution)
- Molarity

- Colloids
- Suspensions

Chemical bonds
- Energy level
- Inert

- Ions
  - Ionic bond
  - Anion
  - Cation

These are Vocabulary Terms only.
Students are also responsible for concepts!

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- Covalent bonds
  - Single, double & triple covalent bonds
  - Polar molecules
  - Nonpolar molecules
- Hydrogen Bonds
- Chemical reactions
  - Chemical equations
  - Reactants
  - Products
  - Synthesis, or combination reactions, anabolic
  - Decomposition reactions, catabolic
  - Exchange or displacement reactions
  - Oxidation-reduction reactions, or redox rxn's.
- Exergonic reactions
- Endogonic reactions
- Chemical equilibrium
- Catalysts
  - Enzymes
- Organic compounds
- Inorganic compounds
- Salts
- Electrolytes
- Acids
- Bases
- Bicarbonate ion, HCO_3-
- Ammonia ion, NH_3+
- PH
- Buffers
- Carbonic acid – bicarbonate system
- Monomers & polymers
- Carbohydrates
  - Monosaccharides, or simple sugars
  - Disaccharides, or double sugars
  - Dehydration synthesis
  - Polysaccharides
- Lipids
- Triglycerides
  - Fatty acids
  - Glycerol

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- Saturated
- Unsaturated
  - Monounsaturated
  - Polyunsaturated
- Steroids
- Protein
- Amino acids
- Peptide bonds
  - Primary structure
  - Secondary structure
  - Tertiary structure
  - Quaternary structure
  - Macromolecules
  - Fibrous and globular proteins
  - Enzymes
    - Substrate

Nucleic Acids
- Nucleotides
  - Adenine, guanine, cytosine, thymine and urasil
- Adenosine triphosphate
  - ATP, ADP