Unit 1 Review

Chapter 1 The Human Body and Orientation

- Define anatomy and physiology.
- Explain the principle of complementarity.
- Name the different levels of structural organization and explain their relationships.
- List the 11 organ systems of the body, identify their components, and briefly explain the major function(s) of each system.
- List and define the 8 Life functions. Which two functions do you have to absolutely have to show life?
- List and define the survival needs of the body.
- Define homeostasis and explain its significance. Be able to label and define all of the parts.
 Figure 1.4.
- Describe how negative and positive feedback mechanisms maintain body homeostasis.
 Figure 1.5, 1.6.
- Define homeostatic imbalance.
- Describe anatomical position.
- Use correct anatomical terms to describe body directions, regions, and planes. Table 1.1, Figure 1.7, Figure 1.8, Figure 1.9, Figure 1.11.

Chapter 2 Chemistry Comes Alive

- Def: matter, energy, element.
- What are the 4 forms of energy?
- What are the 3 parts of the atom and their charge?
- Identify the common elements of the human body.
- Table 2.1, know them by atomic symbol.
- Define Atomic number, mass number, isotopes, atomic weight, radioisotopes.
- Compare solutions, colloids, and suspensions. Define solute and solvent.
- Differentiate among ionic, covalent, and hydrogen bonds. Compare polar and nonpolar bonds.
- Be able to recognize the 3 types of chemical reactions by letters and definition.
- Describe factors that affect chemical reaction rates. Define catalysts.
- Know the inorganic compounds, salt, acid, base, and water by definitions and special properties
- What is the pH scale? What does it measure? What do the numbers corresponds to? Which acid or base would be stronger?
- Know each organic compound by definition, type and function (4 building blocks/macromolecules).
 Carbohydrates, Lipids, Proteins, Nucleic Acids
- Se able to describe enzymes. Know the three steps of enzyme action.

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