

## 9<sup>th</sup> Grade Honors Biology Semester 1 Exam study guide

### CHAPTER 1 Biology in the 21<sup>st</sup> Century

#### Section 1: The Study of Life

- Biosphere
- Biodiversity
- Biology
- Cell
- Metabolism
- The seven properties of life

#### Section 2: Unifying Themes of Biology

- Structure and Function
- Homeostasis

#### Section 3: Scientific Thinking and Processes

- Hypothesis and know how to write hypothesis in *If, then, because* format
- Independent variable
- Dependent variable
- Constants
- Control group

#### Section 4: Biologists' Tools and Technology

- Microscope
- Scanning microscope
- Transmission microscope

### CHAPTER 2 Chemistry of Life

#### Section 1: Atoms, Ions, and Molecules

- Atom
- Element
- Compound
- Ion
- Ionic bond
- Covalent bond
- Polar vs. nonpolar molecules
- Molecule

#### Section 2: Properties of Water

- Hydrogen bonds
- Properties of water:
  - High Specific heat
  - Cohesion
  - Adhesion
- Solution
- Solvent
- Solute

- Acid
- Base
- pH

#### Section 3: Carbon-Based Molecules

- Monomer
- Polymer
- Carbohydrates
  - Properties
  - Monomer and polymer
- Lipids
  - Properties
  - Monomer and polymer
- Proteins
  - Properties
  - Monomer and polymer
- Nucleic acids
  - Properties
  - Monomer and polymer

#### Section 4: Chemical Reactions

- Chemical reaction
- Reactants
- Products
- Activation energy
- Endothermic reactions
- Exothermic reaction
- Energy diagrams (pg.50)

#### Section 5: Enzymes

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- Enzymes
- Substrate
- Lock-and-key model
- Catabolic and Anabolic enzymes
- Effects of pH and temperature on enzymes

### CHAPTER 3 Cell Structure and Function

#### Section 1: Cell Theory

- Hooke
- Leeuwenhoek
- Schleiden
- Schwann
- Virchow
- Cell Theory principles (3)

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**G Thomas**



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