

# AP Biology Midterm Review Study Guide



- **Midterm exam date:** period 1: January 22, 2016, 8:00am – 10:00am  
period 3: January 25, 2016, 8:00am – 10:00am
- **Format:** 40 Multiple Choice Questions, math questions, and free response questions
- This midterm will count as your midterm exam grade and your final exam grade. These 2 grades will be averaged with your 5<sup>th</sup> marking period project grade to determine your 5<sup>th</sup> marking period grade.
- Use this review sheet to help guide you during your preparation for this exam. **NOTE:** This list is not all-inclusive.

## 2 - Biochemistry

- What are the life processes?
- What determines the different types of bonds (Nonpolar Covalent, Polar Covalent, Ionic, Hydrogen)?
- Mass # , atomic #, isotopes, ions, electron configuration
- Protons (mass, +1, nucleus), neutron (mass, +0, nucleus), electron (no mass, -1, orbitals, valence e- involved in bonds)

## 2 – Water

- What types of bonds do you find within a water molecule? \* \* \* between water molecules?
- What atom in water is very electronegative?
- Properties: excellent solvent, high heat capacity—moderating influence on temperature, evaporative cooling, ice floats - insulation, strong cohesion & surface tension, strong adhesion
- PH scale 0-14      acid = 0-(7) high [H<sup>+</sup>], low [OH<sup>-</sup>]      neutral = 7      base (7)-14, low [H<sup>+</sup>], high [OH<sup>-</sup>]
- What are buffers? Why are they necessary?

## 3 – Carbon / Organic Molecules

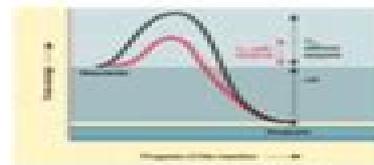
- What are some properties of the carbon (organic) atom?
- Functional Groups: structural formulas, properties, and examples of molecules they are found in:
  - Amino, central carbonyl, terminal carbonyl, carboxyl, hydroxyl, methyl, phosphate, sulfhydryl
- Isomers = same number of atoms, different properties

## 3- Macromolecules

- What is the difference between dehydration synthesis and hydrolysis?
  - $C_6H_{12}O_6 + C_6H_{12}O_6 = C_{12}H_{22}O_{11} \text{ (disaccharide)} + H_2O$
- Know macromolecule monomers vs. polymers, bonds, and examples:
  - Carbohydrates: monosaccharides, disaccharides, polysaccharides, sugars, starch, glycogen, cellulose, chitin, glycosidic linkage bonds
  - Proteins - structure, transport, defense, enzymes, amino acids, dipeptides, polypeptides, proteins, peptide bonds, 1<sup>o</sup>, 2<sup>o</sup>, 3<sup>o</sup>, 4<sup>o</sup> levels of structure
  - Lipids - energy storage, structure, hormones, groups: triglycerides (fats, saturated C-C, unsaturated/kinky C=C), phospholipids, steroids, (cholesterol, sex hormones), ester linkage bonds.
  - Nucleic acids- genetic information storage, structure: nucleotides (pentose sugar, nitrogenous base (A, T, C, G, U), negatively charged phosphate groups, DNA, RNA, hydrogen bonds between bases, covalent bonds in backbone)

## 6 - Enzymes/ Metabolism

- What do the first and second laws of thermodynamics state?
- What is the structure and purpose of ATP?
- What happens when high-energy phosphate bonds are broken in ATP?
- $\Delta G_{\text{reaction}}$  (Change in Energy of Reaction) =  $G_{\text{products}}$  (Energy of Products) –  $G_{\text{reactants}}$  (Energy of Reactants)
- Define: Catabolism, Hydrolysis, Exergonic, Negative Delta G
- What macromolecule are enzymes made of? What do they do to a substrate? Can they be reused? What do enzymes do to the activation energy of a reaction?
- Function: metabolic catalysts, lock & key model, induced fit model, "-ase", substrate specific
- Factors affecting enzyme action: pH, temperature, coenzymes, cofactors, substrate concentration, enzyme concentration
- Activators (ex: allosteric) vs. inhibitors (ex: competitive or non-competitive)
- Allosteric site vs. active site
- Negative feedback loop / feedback inhibition
- Be able to label & interpret a Rates of Reaction Diagram ->



# Ap Bio Midterm Study Guide

**Arturo Cuomo**



## **Ap Bio Midterm Study Guide:**

## Adopting the Tune of Appearance: An Psychological Symphony within **Ap Bio Midterm Study Guide**

In some sort of consumed by displays and the ceaseless chatter of quick communication, the melodic splendor and psychological symphony produced by the prepared word usually fade in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. However, located within the pages of **Ap Bio Midterm Study Guide** a charming literary value filled with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this captivating masterpiece conducts readers on a psychological journey, skillfully unraveling the concealed songs and profound impact resonating within each carefully crafted phrase. Within the depths of the moving examination, we will discover the book is main harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Ap Bio Midterm Study Guide**

1. Understanding the eBook Ap Bio Midterm Study Guide
  - The Rise of Digital Reading Ap Bio Midterm Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Bio Midterm Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Bio Midterm Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Bio Midterm Study Guide
  - Personalized Recommendations

- Ap Bio Midterm Study Guide User Reviews and Ratings
- Ap Bio Midterm Study Guide and Bestseller Lists
- 5. Accessing Ap Bio Midterm Study Guide Free and Paid eBooks
  - Ap Bio Midterm Study Guide Public Domain eBooks
  - Ap Bio Midterm Study Guide eBook Subscription Services
  - Ap Bio Midterm Study Guide Budget-Friendly Options
- 6. Navigating Ap Bio Midterm Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Ap Bio Midterm Study Guide Compatibility with Devices
  - Ap Bio Midterm Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Bio Midterm Study Guide
  - Highlighting and Note-Taking Ap Bio Midterm Study Guide
  - Interactive Elements Ap Bio Midterm Study Guide
- 8. Staying Engaged with Ap Bio Midterm Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Bio Midterm Study Guide
- 9. Balancing eBooks and Physical Books Ap Bio Midterm Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Bio Midterm Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Bio Midterm Study Guide
  - Setting Reading Goals Ap Bio Midterm Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Bio Midterm Study Guide
  - Fact-Checking eBook Content of Ap Bio Midterm Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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