

2012/2013 AP Biology Midterm Review Sheet

- **In-Class Midterm Date: Wednesday, January 24, 2013 – in the LIBRARY – 11:45-1:45**
- **Format: 45-50 Multiple Choice Questions, two essays (one lab related, one content related) – 2 hours**
 - Be prepared to work at this fast pace... which is actually slower than the AP Exam pace!!
 - Some questions will require calculations (as on the AP test)
- **Bring # 2 pencils & a blue or black pen. 4-function calculator. No reference materials may be used.**
- The midterm will count under Criterion C.
- Use this review sheet to help guide you during your preparation for this exam.
- Use prior quizzes and tests, as well as in class activities and labs to help you review

Unit 1: Chemistry of Life

Chapter 3 – 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, evaporative cooling, ice floats, strong cohesion & surface tension, strong adhesion
- pH scale 0-14 acid = 0-(7) high $[H^+]$, low $[OH^-]$ neutral = 7 base (7)-14, low $[H^+]$, high $[OH^-]$
- Buffers
- Water Lab

Chapter 4/5 – 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
- What is the difference between dehydration/condensation synthesis and hydrolysis?
 - $C_6H_{12}O_6 + C_6H_{12}O_6 \rightarrow C_{12}H_{22}O_{11} + H_2O$ (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°, 2°, 3°, 4° 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
- Organic molecules lab

Chapter 8 - 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_{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
- Enzyme Lab- Catecholase – What factors affect the activity of catecholase?

Honors Biology Midterm Review Answers 2013

K Morrison



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