

Biology Final Exam Study Guide Spring 2009

Major Concepts Studied in Biology Spring Semester 2009

- Life is formed from a few common molecules.
- Life is based on cells.
- Life cycles matter and transfers energy within cells.
- Life conserves and transfers information from generation to generation (genetics).
- Life changes over time (evolution)
- Life is interdependent

Major Topics	% of Exam	Supporting Details—These can be reworded as great practice questions. Quiz yourself or a friend, and review the questions that stumped you.	Key Vocabulary—Know the meaning and be able to provide examples (if relevant) for each word
Molecules of Life	5%	• What are the four molecules of life? • What are the function(s) of each of the molecules? • Identify images of each type of molecule.	Monosaccharide Disaccharide Polysaccharide Nucleic Acid Lipid Protein Amino acid
Properties of Water	2%	• Know the properties of water and their importance to life.	Surface tension Adhesion Cohesion Density Polarity
Osmosis and Diffusion	5%	• Explain how molecules move in and out of cells through osmosis and diffusion • Explain the differences and similarities between these two processes	Osmosis Diffusion Concentration gradient
Cell Structure & Function	5%	• Explain how the structures in a cell relate to their function • Know the structure and function of the following cell structures: cell membrane, nucleus, cytosol, mitochondria, chloroplast & ribosome • Know the differences between prokaryotic and eukaryotic cells	Mitochondria Chloroplast Cell membrane Cytosol Ribosome Prokaryotic Cell Eukaryotic Cell
Photosynthesis Photosynthesis continued	7%	• Define and provide examples of matter and energy • Write the formula for photosynthesis. Know the reactants and products of photosynthesis. • Name three distinct types of organisms that conduct photosynthesis (bacteria, algae and plants) • Name the site of photosynthesis in eukaryotic cells • Identify the different parts that make up a chloroplast • Explain how the reactants relate to the products	Photosynthesis Chloroplast

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Keep It Real With PBL, Secondary Jennifer Pieratt, 2019-12-19 Let's Get Real About PBL The book's companion website features an updated guide to help teachers integrate technology into PBL experiences for online and blended learning instruction Does project based learning PBL feel just out of reach in your secondary classroom Is project planning an overwhelming project in and of itself Dr Jennifer Pieratt a consultant and former teacher knows firsthand how challenging designing projects can be especially for secondary teachers with large caseloads and short class periods to engage in meaningful teaching and learning In this hands on interactive guide Pieratt supports secondary teachers through the iterative process of planning authentic project based learning experiences Using backward design she gives teachers ready to use strategies for identifying the best concepts to tackle in PBL experiences brainstorming realistic projects facilitating meaningful learning and creating formative and summative assessments The book is visually accessible in style and features reallife soundbites that tackle the challenges to implementing PBL Tips and resources to support the project planning process Planning forms to guide you through planning your projects Key terminology and acronyms in PBL Exercises to help you reflect and process throughout your project plans Master PBL planning with this clear efficient and easy to use guide to creating enriching experiences for your students

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