

BIO101 TEST GUIDE (#1)

LO1 - Life Science

- LO: Describe elements of research design and how they impact conclusions
 - sample size, randomization, double blind, strengths & weaknesses
 - caveation @ causation
- LO: Formulate testable hypothesis & design controlled exp
- LO: Distinguish science from unjustified claims

LO2 - Macromolecules

- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
 - 4 major macromolecules (biological polymers) in cell:
 - Carbohydrates (monosaccharide + monosaccharide $\rightarrow$ polysaccharide + H_2O)
 - Lipids
 - Proteins
 - Nucleic Acids



- | 4 polysaccharides |
|-----------------------------------|
| 1. Starch: Storage in plants |
| 2. Glycogen: Storage in animals |
| 3. Cellulose: Structure in plants |
| 4. Chitin: Structure in animals |

Hydrolysis & Dehydration Reactions

- Hydrolysis: breaks polymers into monomers by adding H_2O
- Dehydration reaction: links monomers together, H_2O released



- LO: define lipids & explain their functions & properties in polar/nonpolar

Lipids = nonpolar & hydrophobic

4 important types of lipids: fats, phospholipids, cholesterol, and steroids

1. Fats (monomer = glycerol & fatty acids) (aka. a triglyceride = "3" & "glycerol")

unsaturated fats/triglycerides: hydrocarbon chain has 1+ double bond (can't pack tight $\therefore$ liquid)

saturated fats/triglycerides: no double bonds (can pack easily $\therefore$ solid)

2. Phospholipids (hydrophilic head (glycerol + phosphate mol) + 2 hydrophobic tails)

"amphiphilic" molecule



form phospholipid bilayer



hydrocarbon fatty acids

- LO: draw protein structure & depict the consequence of mutations on normal structure & function

Proteins' monomers are amino acids. Amino acid + amino acid = dipeptide

1. Primary structure in proteins = just the sequence of the amino acids in order



amino acid

peptide bonds b/w amino group of 1 amino acid & carboxyl of another

2. Secondary structure in proteins = H-bonds b/w amino group of 1 amino acid & carboxyl of another



alpha helix



beta strand

3. Tertiary structure in proteins = overall 3-D shape of polypeptide due to R-group interactions b/w amino acids

4. Quaternary structure = (NOT ALL HAVE) $\rightarrow$ R-group interactions b/w multiple polypeptide chains



(interactions b/w R-groups cause fold)



see mutated amino acid can affect/ruin the entire polypeptide structure & $\therefore$ function

one incorrect/misplaced amino acid can make protein defective bc specific R-groups & orders cause each protein's unique folds & functions

- LO: identify how human body uses macromolecules from food

Eat for 2 reasons:

- Raw organic macromolecular materials for building our own macromolecules
- Energy for cellular work

Study Guide For Biology Keystone Test

Lewis Morris



Study Guide For Biology Keystone Test:

Keystone Biology Eoc Success Strategies Study Guide Keystone Eoc Exam Secrets Test Prep Team, 2014-08-22 Keystone Biology EOC Success Strategies helps you ace the Pennsylvania Keystone End of Course Assessments without weeks and months of endless studying Our comprehensive Keystone Biology EOC Success Strategies study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined Keystone Biology EOC Success Strategies includes The 5 Secret Keys to Keystone EOC Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don't Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don't Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific Keystone EOC exam and much more **Life: The Science of Biology Study Guide**

William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Keystone Biology Vocabulary**

Workbook Lewis Morris, Learn the Secret to Success on the Pennsylvania Keystone Biology Exam Ever wonder why learning comes so easily to some people This remarkable workbook reveals a system that shows you how to learn faster easier and without frustration By mastering the hidden language of the subject and exams you will be poised to tackle the toughest of questions with ease We've discovered that the key to success on the Pennsylvania Keystone Biology Exam lies with mastering the Insider's Language of the subject People who score high on their exams have a strong working vocabulary in the subject tested They know how to decode the vocabulary of the subject and use this as a model for test success People with a strong Insider's Language consistently Perform better on their Exams Learn faster and retain more information Feel more confident in their courses Perform better in upper level courses Gain more satisfaction in learning The Pennsylvania Keystone Biology Exam Vocabulary Workbook is different from traditional review books because it focuses on the exam's Insider's Language It is an outstanding supplement to a traditional review program It helps your preparation for the exam become easier and more

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Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation *Educational Screen and Audiovisual Guide* ,1934 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1970 **Keystone Biology EOC Questions & Explanations**

Sterling Education,2024-05-09 Thousands of students use Sterling to achieve academic success Master PA Keystone Biology with questions and detailed explanations The high yield practice questions in this book cover topics tested on Keystone Biology EOC test Instructors with years of teaching experience prepared these questions by analyzing the exam content and developing practice material that builds your knowledge and skills crucial for success on the test Our editorial team of standardized test experts reviewed and systematized the content to match the current Pennsylvania state requirements The detailed explanations in this book describe why an answer is correct and more important for your learning why another attractive choice is wrong They teach the scientific foundations and details of essential topics needed to answer test questions Read the explanations carefully to understand how they apply to the question and learn important biology principles and the relationships between them With the practice material contained in this book you will significantly improve your score Passing the Keystone end of course assessment tests is essential for earning a high school diploma in Pennsylvania This book helps you develop and apply knowledge to quickly choose the correct answer on Keystone Biology

exam Solving targeted practice questions builds your understanding of fundamental biological concepts and is a more effective strategy than merely memorizing terms

Science Teaching Essentials Cynthia J. Brame, 2019-02-06 Science Teaching Essentials Short Guides to Good Practice serves as a reference manual for science faculty as they set up a new course consider how to teach the course figure out how to assess their students fairly and efficiently and review and revise course materials This book consists of a series of short chapters that instructors can use as resources to address common teaching problems and adopt evidence based pedagogies By providing individual chapters that can be used independently as needed this book provides faculty with a just in time teaching resource they can use to draft a new syllabus This is a must have resource for science health science and engineering faculty as well as graduate students and post docs preparing for future faculty careers Provides easily digested practical research based information on how to teach Allows faculty to efficiently get up to speed on a given pedagogy or assessment method Addresses the full range of faculty experiences as they being to teach for the first time or want to reinvent how they teach

Resources in Education ,1996 *The College Board Guide to High Schools* College Entrance Examination Board,1990 The standard reference for current accurate information collected directly from the high schools about the schools themselves and the students who attend them Includes graduation requirements academic programs SAT score ranges minority enrollment and more

El-Hi Textbooks in Print ,1981

Biology Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

The College Board Guide to High Schools ,1990

The Educational Screen ,1934 *Medical and Health Care Books and Serials in Print* ,1997

You Can Win a Scholarship Samuel C. Brownstein, Mitchel Weiner, 1964

Educational Screen ,1934

Catalog of Copyright Entries. Fourth Series Library of Congress. Copyright Office, 1967

The Cumulative Book Index ,1989 A world list of books in the English language

Biology and Conservation of Musteloids David Whyte Macdonald, Chris Newman, Lauren A. Harrington, 2017 This is the first specific coverage of musteloid conservation biology written and edited by world renowned specialists in the field

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Study Guide For Biology Keystone Test**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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