

Biology 1AL Midterm Study Guide

Spectroscopy

- **Absorbance:** spectrometer records the amount of light absorbed or light that passes through the solution, less light passes through a higher concentrated solution
 - Equation: $-\log(I/I_0) = CLZ = \text{Absorbance}$
 - Explanation:
 - I = intensity of light emerging from sample
 - I_0 = intensity of incident light
 - C = concentration of solution (M = moles/L)
 - L = length of light path (cm)
 - Z = molar extinction coefficient
 - $I/I_0 = \text{\% transmittance} = \text{Optical Density (O.D.)}$
 - blank: everything except key color you want to measure

Microscope

- **shorter wavelength = better resolution**
- ocular lens: 10x – total magnification equals 10x times lens
- image: inverted image – upside down and backwards
- **field of view:** smaller equals higher magnification
- **depth of field:** smaller equals higher magnification
- **ruler calibration:** less mm for higher magnification
- inverse relationship

Cells

- Domains: **Prokarya (Eubacteria, Archaea), Eukarya (Eukaryotes)**
- prototroph – can make all cellular compounds from inorganic (from minimal), photoautotrophic (sunlight to make energy), chemoautotrophic (make energy and compounds from inorganic), chemoheterotrophic (use preformed foods to make energy)
- Prokaryotes – live in hypotonic
 - plasma membrane and cell envelope
 - **cell envelope:** glycocalyx (adhesion, prevent dessication, resist phagocytosis), cell wall (passage, pressure), flagella (long, move, rotate), pili (short, more, adhesion)
 - Archaea
 - **introns, 16sRNA different, different phospholipids, different cell wall**
 - Bacteria (Eubacteria) – reproduce 10 rounds equal 1×10^3 bacteria
 - Categorizing by:
 - morphology (shape)
 - **cocci:** spherical
 - **bacilli:** rod shaped
 - **spirilli:** spiral shaped
 - cell wall composition (gram +/-)
 - **gram positive:** stain with violet, thick cell wall retains iodine violet
 - **gram negative:** stain red, thin wall with complex outer, impermeable to hydrophobic, barrier to antibiotics and enzymes
 - oxygenic photosynthesis (release O_2)
 - symbiosis (obligate parasitism)
 - Cyanobacteria: gram negative eubacter that release oxygen during photosynthesis, some do nitrogen fixation

Biology Midterm Exam Study Guide Key Answer

AN Whitehead



Biology Midterm Exam Study Guide Key Answer:

Psychology Study Guide Cornelius Rea, 2005-06-10 For every chapter the Study Guide will include a Preview and At A Glance sections both provide an overview of and objectives for the chapter Each major topic includes a progress test comprised of multiple choice matching and or true false questions The Guide also contains Graphic Organizers which encourage students to complete graphs charts and flow diagrams that ultimately provide a visual synopsis of text material End of chapter material includes Something To Think About sections which contain thought provoking questions designed to encourage critical thinking and application of the material

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Introduction to Biology Alan Axelrod, 1999 A complete guide with questions answers and practice tests in the field of biology

Taking the Anxiety Out of Taking Tests Susan Johnson, 1997 Although the thought of taking a test makes most students a little nervous this beneficial guide shows how to overcome anxiety study effectively and take tests with more confidence and success Susan Johnson applies recent breakthroughs in the treatment of full fledged anxiety disorders to test taking phobias and presents

here numerous systematic and supportive suggestions Charts and tables Scientific Teaching Jo Handelsman, Sarah Miller, Christine Pfund, 2007 Seasoned classroom veterans pre tenured faculty and neophyte teaching assistants alike will find this book invaluable HHMI Professor Jo Handelsman and her colleagues at the Wisconsin Program for Scientific Teaching WPST have distilled key findings from education learning and cognitive psychology and translated them into six chapters of digestible research points and practical classroom examples The recommendations have been tried and tested in the National Academies Summer Institute on Undergraduate Education in Biology and through the WPST Scientific Teaching is not a prescription for better teaching Rather it encourages the reader to approach teaching in a way that captures the spirit and rigor of scientific research and to contribute to transforming how students learn science **Psychology Catalog 2005** Neil Thomson, 2004-09 Psychology Michael S. Werthman, Carole Wade, Carol Tavis, 1997-04 *The Publishers' Trade List Annual* , 1962 **Teaching with a Purpose** Lolly Ockerstrom, 1998

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. Problem of the Month - Double Down Using the same two numbers, subtract the smaller from the larger number. If the two answers are the same, we will call that a perfect pair. Can you find two ... Problem of the Month: Perfect Pair - inside If the two answers are the same, we will call that a Perfect pair. Can you find two numbers that are a Perfect pair? If you think it is impossible, explain ... Perfect Pair Project - If the two answers are the same, that ... If the two answers are the same, that is a perfect pair. Perfect pairs are problems that get you the same answer when you do the opposite or different ... Problem of the Month: Perfect Pair - Inside Mathematics 10 Level D In this Problem , a Perfect pair is defined as two numbers whose sum is equal to their product. Explore these Perfect pairs. If you cannot find any ... Algebra 1 Answer Key Algebra 1 Answer Key. ITEM 242. Use the two-way frequency table to answer the question. Janice asked students in her school to identify their preferred ... Pair Products - NRICH - Millennium Mathematics Project Pair Products printable worksheet. Choose four consecutive whole numbers. Multiply the first and last numbers together. Multiply the middle pair together. Common Core State Standards for Mathematics Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. 3. Decompose numbers ... Japan by Rail: Includes Rail Route Guide and 30 City ... Use this comprehensive guide in conjunction with a rail pass to get the most out of a trip to Japan. • Practical information - planning your trip; when to go; ... Japan by Rail: Includes Rail Route Guide And 30 City ... Using this guide and a Japan Rail Pass, you can travel almost anywhere across all four main islands - cheaply and efficiently. Includes Rail Route Guide and 27 City G... by Ramsey Zarifeh ... Japan by Rail, 3rd: Includes Rail Route Guide and 27 City G... by Ramsey Zarifeh ; Item Number. 382448242513 ; ISBN. 9781905864393 ; EAN.

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