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Ap biology textbook online pdf

Introducing AP Biology, an introductory college-level course that delves into the world of biology through inquiry-based investigations. Students explore fundamental concepts like evolution, energy, information storage and transfer, and system interactions, developing their understanding of these topics. The framework provides a clear outline of what students should know, be able to do, and understand, focusing on core principles, theories, and processes. The AP Biology course is structured around eight units of study that offer one possible sequence for the course. However, instructors have the flexibility to organize content as they see fit. Each unit carries a unique weightage, with topics like chemistry of life, cell structure and function, cellular energetics, and more. Beyond academic content, AP Biology emphasizes science practices that students should master throughout the year. These skills include explaining biological concepts, analyzing visual representations, determining scientific questions, representing data, performing statistical tests, and developing arguments using evidence. The AP program relies heavily on Development Committees, composed of college faculty and experienced secondary teachers, to prepare course curricula and exams. James Morris, a professor of biology at Brandeis University, is an expert in the field, with research focused on epigenetics and experience teaching introductory biology courses. As a reader for the AP Biology exam, Dr. Morris brings valuable insight and expertise to the table. With his background in genetics and genomics, he provides students with opportunities to engage in genuine laboratory-based research early in their scientific careers. Professor Castignetti, emeritus at Loyola University Chicago, spent 37 years teaching various biology courses. He received awards for Master Teacher and Faculty/Staff Member of the Year. With an MS from Colorado State University and PhD in microbial ecology and physiology from the University of Massachusetts-Amherst, he focused on soil microorganisms' microbiology and biochemistry. Since 2003, he has been involved with the AP Biology program, serving as a reader, table leader, and Development Committee member. Professor John Lepri at the University of North Carolina at Greensboro teaches introductory biology, biological clocks, and animal physiology. His research on mammalian reproduction coordination and teacher preparation programs for high school science teachers earned him recognition. He has worked with College Board and ETS for over 25 years as a reader, including five years as AP Biology exam chief reader. Dr. Rick Relyea at Rensselaer Polytechnic Institute is the David Darrin Senior '40 Endowed Chair in Biological Sciences and director of the Darrin Freshwater Institute. He received degrees from SUNY College of Environmental Science and Forestry, Texas Tech University, and the University of Michigan. With over 200 scientific articles and book chapters authored and presented research seminars worldwide, he was named Chancellor's Distinguished Researcher and received the Tina and David Bellet Teaching Excellence Award. Rick is interested in high school education and has co-authored "Environmental Science for the AP Course." He directs The Jefferson Project, a technologically advanced freshwater lake study initiative. When sharing this digital book or parts of it, you must display the following credit on every page: "Access for free at Also, please note that OpenStax is a licensed trademark and cannot be reproduced without permission from Rice University."