

# Biology Exam 1 Study Guide

## Lecture 1 → Introduction to Biological Science

### Tree of Life

- Domains
  - Eukarya → visible life
    - Split into animals and plants
    - Very small portion
  - Bacteria → single cell
    - Make up most of life's branches
    - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
  - Archaea → original domain of life
    - More closely related to eukaryotes than eubacteria, first branch of life
    - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches

### Destruction and Mass Extinction

- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

### Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once, wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
  - fossil record shows conservation of homologous structures
  - Molecular proof: same DNA and RNA protein in cells
  - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
  - Scopes taught evolution illegally; resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
  - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

### Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower the temps "compatible" with life



# **Biology Study Guide Answers The Fossil Record**

**Peter Raven, George Johnson, Kenneth  
Mason, Jonathan Losos, Susan Singer**

## **Biology Study Guide Answers The Fossil Record:**

**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 *College Biology II* James Hall Zimmerman, 1963 *Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Student Study Guide for Biology [by] Campbell/Reece/Mitchell** Martha R. Taylor, 1999 *College Biology Learning Exercises & Answers* Textbook Equity, 2014-08-22 This textbook is designed as a quick reference for College Biology volumes one through three It contains each Chapter Summary Art Connection Review and Critical Thinking Exercises found in each of the three volumes It also contains the COMPLETE alphabetical listing of the key terms black white version College Biology intended for capable college students is adapted from OpenStax College s open CC BY textbook Biology It is Textbook Equity s derivative to ensure continued free and open access and to provide low cost print formats For manageability and economy Textbook Equity created three volumes from the original that closely match typical semester or quarter biology curriculum No academic content was changed from the original See [textbookequity.org/tbq\\_biology](http://textbookequity.org/tbq_biology) This supplement covers all 47 chapters **Introduction to Paleobiology and the Fossil Record** Michael J. Benton, David A. T. Harper, 2020-06-02 This book presents a comprehensive overview of the science of the history of life Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest techniques from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls and from homeobox genes to cladistics All the well known fossil groups are included including microfossils and invertebrates but an important feature is the thorough coverage of plants vertebrates and trace fossils together with discussion of the origins of both life and the metazoans All key related subjects are introduced such as systematics ecology evolution and development stratigraphy and their roles in understanding where life came from and how it evolved and diversified Unique features of the book are the numerous case studies from current research that lead students to the primary literature analytical and mathematical explanations and tools

together with associated problem sets and practical schedules for instructors and students New to this edition The text and figures have been updated throughout to reflect current opinion on all aspects New case studies illustrate the chapters drawn from a broad distribution internationally Chapters on Macroevolution Form and Function Mass extinctions Origin of Life and Origin of Metazoans have been entirely rewritten to reflect substantial advances in these topics There is a new focus on careers in paleobiology

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**Evolution Education and the Rise of the Creationist Movement in Brazil** Kristin Cook, Alandeom W. Oliveira, 2019-09-15 Evolution Education and the Rise of the Creationist Movement in Brazil examines how larger societal forces such as religion media and politics have shaped Brazil's educational landscape and impacted the teaching and learning of evolution within an increasingly polarized discourse in recent years To this end Alandeom W Oliveira and Kristin Cook have assembled a number of educational scholars and practitioners many of whom are based in Brazil to provide up close and in depth accounts of classroom based evolution instruction teacher preparation programs current educational policies and commonly used school curricula Contributors also present information on Brazilian teachers and students attitudes toward and understanding of evolution emergent misconceptions of evolution and international comparisons of evolution acceptance and understanding in Brazil compared to other countries Across the three sections of this book readers see a nation navigating the complexity of multiple spheres of thought about evolution and its role in the K 12 and postsecondary curriculum Suggesting the rise of an influential creationist movement in Brazil this book illuminates the dynamic sociological processes at play in the educational sphere of Latin America in a globalized era that allows for rapid worldwide travel of competing ideologies Scholars of Latin American studies religion education sociology and political science will find this book especially useful

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