

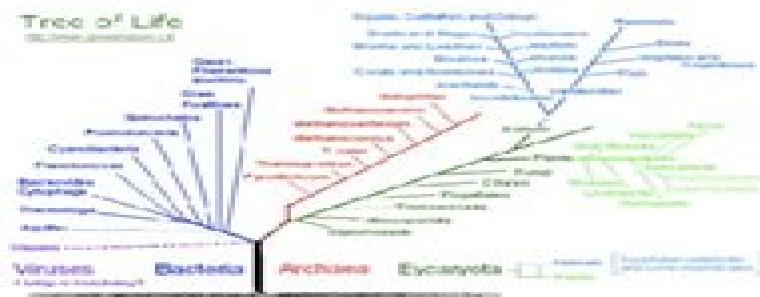
# Biology Exam 1 Study Guide

## 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 temps "compatible" with life

# 172 Biology Study Guide

**B Lingard**

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**Resources in Education** ,1979-10    **Science Indiana Standards Manager Grade 6** McDougal Littell,2004  
**Guide to the Literature of the Zoological Sciences** Roger C. Smith,Reginald Henry Painter,1967    **Willing's Press Guide** ,1998 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A    **El-Hi textbooks in print** R. R. Bowker LLC,1983    **Graduate Programs and Admissions Manual** ,1981    **Recording for the Blind & Dyslexic, ... Catalog of Books** ,1996    *The Academy* ,1895    **The Cumulative Book Index** ,1989 A world list of books in the English language    **Reader's Guide to Periodical Literature Supplement** ,1954    **The Publishers' Trade List Annual** ,1886    **Resources in Education** ,1981    **Annual Report of the State Superintendent of Public Instruction** New York (State). Department of Public Instruction,1898    Annual Report of the Superintendent of Common Schools New York (State). Superintendent of Common Schools,1898  
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Report of the Committee of Twelve on Rural Schools Appointed at the Meeting of the National Educational Association, July 9, 1895 National Educational Association (U.S.). Committee of Twelve on Rural Schools,1897    Academy; a Weekly Review of Literature, Learning, Science and Art ,1875 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910    **Teaching Kids with Learning Difficulties in the Regular Classroom** Susan Winebrenner,2006 Includes more than fifty reproducible forms and handouts Provides forms in Microsoft Word and PDF formats    Australian Books in Print 1996 Thorpe, D. W., Staff,1996-04 This unique reference provides detailed bibliographic information on in print books published in or about Australia or written by Australian authors There are also details on publishers distributors whose titles are represented as well as information on all trade associations literary awards more

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## **Table of Contents 172 Biology Study Guide**

1. Understanding the eBook 172 Biology Study Guide
  - The Rise of Digital Reading 172 Biology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying 172 Biology Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 172 Biology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from 172 Biology Study Guide
  - Personalized Recommendations
  - 172 Biology Study Guide User Reviews and Ratings
  - 172 Biology Study Guide and Bestseller Lists
5. Accessing 172 Biology Study Guide Free and Paid eBooks
  - 172 Biology Study Guide Public Domain eBooks
  - 172 Biology Study Guide eBook Subscription Services
  - 172 Biology Study Guide Budget-Friendly Options
6. Navigating 172 Biology Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- 172 Biology Study Guide Compatibility with Devices
- 172 Biology Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 172 Biology Study Guide
- Highlighting and Note-Taking 172 Biology Study Guide
- Interactive Elements 172 Biology Study Guide

8. Staying Engaged with 172 Biology Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 172 Biology Study Guide

9. Balancing eBooks and Physical Books 172 Biology Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 172 Biology Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 172 Biology Study Guide

- Setting Reading Goals 172 Biology Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 172 Biology Study Guide

- Fact-Checking eBook Content of 172 Biology Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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