

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

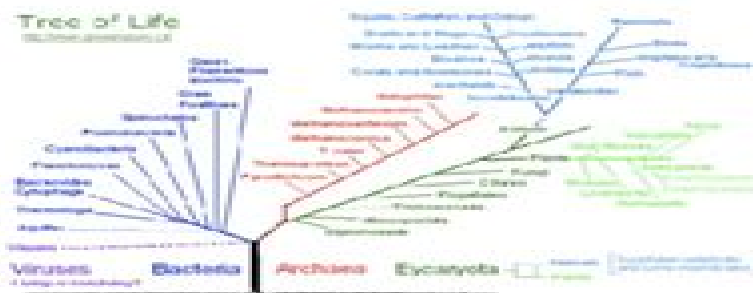
- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

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



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Jicheng Xie



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Resources in Education ,2001-10 *Research in Education* ,1974 *The Undergraduate Catalog* Eastern Michigan University,1915 Annual Catalog of the Michigan State Normal College for ... Eastern Michigan University,Michigan State Normal College,1917 Sterling's College Admission Survival Guide Junior Year Stephen Charles Sterling,Dorothy Roman Sterling,2006-05 Sterling's College Admission Guide is the college and university guide for understanding the entire college admission process **Register** Cornell University,1908 *Cornell University Register and Catalogue* Cornell University,1908 **The University Records** Cornell University,1907 The Ultimate Guide to College Transfer , Lucia D. Tyler,Susan E. Henninger,2017-05-19 The Ultimate Guide to College Transfer is a comprehensive guide designed to make college transfer between four year schools as successful as possible Chapters outline the steps to take from the moment a student finds him herself considering college transfer to the first semester at his her next college The book contains vignettes based on real student stories and excerpts from interviews with transfer students parents and higher education professionals The information and advice they share will be helpful informative and reassuring to families going through a college transfer and enlightening to high school and college personnel College transfer when done for the right reasons and in the right way can be an extremely positive experience for students This is especially true when the student goes from merely surviving in their old environment to thriving in their new one *Learning Strategies in Second Language Acquisition* J. Michael O'Malley,Anna Uhl Chamot,1990-02-23 A review of the literature on learning strategies describing and classifying learning strategies in second language learning The North Carolina Teacher ,1924 The American Biology Teacher ,1938 Includes section Books *The Manhattan Family Guide to Private Schools and Selective Public Schools* Victoria Goldman,2010-06 The only comprehensive guide to New York City private schools on the market **Practical English Writing Skills - Student Guide** Mona Scheraga,2001-02-09 Practical English writing Skills This two part series helps students develop basic writing skills they need to succeed in school on the job or at home Practical English Writing Skills include job applications cover letters requesting an interview essays bibliographies r sum s college applications outlines note taking and research papers Cornell Rural School Leaflet ,1927 *Comparative Guide to American Colleges* ,1989 *College Access and Opportunity Guide 2011* , **The Insider's Guide to the Colleges, 2015** Staff of the Yale Daily News,2014-07-01 With this new edition The Insider's Guide to the Colleges has been for 41 years the most relied upon resource for high school students looking for honest reports on colleges straight from the college students themselves Having interviewed hundreds of their peers on more than 330 campuses and by getting the inside scoop on everything from the nightlife and professors to the newest dorms and wildest student organizations the reporters at the Yale Daily News have created the most candid college guide ever In addition to the in depth profiles this edition has been updated to include Essential statistics for every school from acceptance rates to popular majors A College Finder to help students zero in on the

perfect school All new FYI sections with student opinions and outrageous advice The Insider s Guide to the Colleges cuts through the glossy Web sites and brochures to uncover the things that matter most to students and by staying on top of trends it gives both students and their parents the straightforward information they need to choose the school that s right for them *The Unofficial, Unbiased Guide to the 331 Most Interesting Colleges 2005* Kaplan, Inc,2004-06-22 Engaging and informative The Unofficial Unbiased Guide to the 331 Most Interesting Colleges 2005 is a must read reference for every college bound student **ERIC Educational Documents Index, 1966-69: Minor descriptors and author index** ,1970

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Table of Contents Spring Semester Study Guide High School Biology

1. Understanding the eBook Spring Semester Study Guide High School Biology
 - The Rise of Digital Reading Spring Semester Study Guide High School Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Spring Semester Study Guide High School Biology
 - 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 Spring Semester Study Guide High School Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Spring Semester Study Guide High School Biology
 - Personalized Recommendations
 - Spring Semester Study Guide High School Biology User Reviews and Ratings

- Spring Semester Study Guide High School Biology and Bestseller Lists
- 5. Accessing Spring Semester Study Guide High School Biology Free and Paid eBooks
 - Spring Semester Study Guide High School Biology Public Domain eBooks
 - Spring Semester Study Guide High School Biology eBook Subscription Services
 - Spring Semester Study Guide High School Biology Budget-Friendly Options
- 6. Navigating Spring Semester Study Guide High School Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Spring Semester Study Guide High School Biology Compatibility with Devices
 - Spring Semester Study Guide High School Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Spring Semester Study Guide High School Biology
 - Highlighting and Note-Taking Spring Semester Study Guide High School Biology
 - Interactive Elements Spring Semester Study Guide High School Biology
- 8. Staying Engaged with Spring Semester Study Guide High School Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Spring Semester Study Guide High School Biology
- 9. Balancing eBooks and Physical Books Spring Semester Study Guide High School Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Spring Semester Study Guide High School Biology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Spring Semester Study Guide High School Biology
 - Setting Reading Goals Spring Semester Study Guide High School Biology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Spring Semester Study Guide High School Biology
 - Fact-Checking eBook Content of Spring Semester Study Guide High School Biology
 - 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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