

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



High School Biology Study Guide

JL Elias



High School Biology Study Guide:

California High School Biology Castle Rock Research Corporation, 2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in the California High School Biology study guide is 100 percent curriculum aligned and serves as an excellent source of material for review and practice Each Class Focus includes the following sections Cell Biology Genetic Variation Phenotypes and Genotypes Genes and DNA the Genetic Composition of Cells Ecology Evolution Evolution and Changing Environments Physiology and the Immune System To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying digital version of SOLARO which may be accessed through the web or on mobile devices *The High School Biology Tutor* Max Fogiel, 1993 A study guide for high school students in biology including detailed explanations about the practice problems Texas High School Biology Castle Rock Research Corp, 2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in Texas High School Biology is specifically aligned to the Texas state standards for those who intend to have students complete biology by the end of high school Each Class Focus includes the following sections Structure and Function of Living Things Genetics Evolution and Classification Biological Macromolecules and Metabolism Biological Systems and Ecosystems To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying online version of SOLARO which may be accessed through the web or on mobile devices General Biology Fast Facts: Evolution E Staff, Learn and review on the go Use Quick Review General Biology Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school college health sciences premed medical and nursing students Biology Quick Review: DNA E Staff, Learn and review on the go Use Quick Review Biology and Genetics Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Quickly review everything you need to know about DNA Perfect study notes for all high school

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