

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 For College

On Target Publishing



Biology Study Guide For College:

The Complete Idiot's Guide to College Biology Emily Jane Willingham Ph.D., 2010-06-01 Biology is the study of life the structure function growth origin and evolution of living things Biology and chemistry work together to create what many people think of as science And passing Biology 101 in college is the entryway to further study in the sciences if you can't do well in it you aren't moving ahead The Complete Idiot's Guide to College Biology follows the curriculum to Biology 101 so closely that it serves as a perfect study guide to it and it's also great for the AP Biology and SAT Subject Biology exams that high school students are taking in droves Students can turn to it when their textbooks are unclear or as an additional aid throughout the semester The guide covers Complicated processes such as photosynthesis and cellular respiration Explanations of complex biology from DNA to ecosystems Offers online extras including a chapter on microbes and an extended glossary Suitable for the new learner or as a refresher for former students The Complete Idiot's Guide to College Biology brings biology to the reader in a relaxed accessible way [The Complete Idiot's Guide to College Biology](#) Emily Jane Willingham, 2010 **CLEP Biology Study Guide** Inc. Accepted, 2020-11-09 Updated for 2021 Accepted Inc's unofficial CLEP Biology Study Guide Comprehensive Review with Practice Test Questions for the CLEP Biology Exam isn't like other study guides Because we know you value your time our unofficial study guide includes a quick yet full review of everything on the test with real examples graphics and information Accepted Inc's NEW CLEP Biology Study Guide gives you the edge you need to score higher and pass the first time The College Board was not involved in the creation or production of this product is not in any way affiliated with Accepted Inc and does not sponsor or endorse this product Accepted Inc's CLEP Biology Study Guide offers A full review of what you need to know for the CLEP Biology exam Practice questions for you to practice and improve Test tips and strategies to help you score higher Accepted Inc's CLEP Biology Study Guide covers Molecular and Cellular Biology Genetics and Evolution Biological Classification Animals Plants Ecology Technology and Social Perspectives and also includes 2 FULL practice tests About Accepted Inc Accepted Inc is an independent test prep study guide company that produces and prints all of our books right here in the USA Our dedicated professionals know how people think and learn and have created our study materials based on what research has shown to be the fastest easiest and most effective way to prepare for the exam Unlike other study guides that are stamped out in a generic fashion our study guide is specifically tailored for your exact needs Our goal here at Accepted Inc is to help you Study Smarter We've eliminated the filler and fluff you see in a lot of mass market guides allowing you to have more effective study time Score Higher We exclusively work with tutors teachers and field experts to write our books This ensures you get the tips takeaways and test secrets that a one on one tutoring experience provides Unlike a tutoring session however our books enable you to prepare for your exam on your own schedule at a fraction of the cost and Get Accepted We offer a comprehensive set of guides guaranteed to raise your score for exams from every step of your education from high school to college or the military

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