

Biology Dna And Rna Study Guide

Praxis Biology (5236) Study Guide 2026-2027 Marcus P. Foxworth 2026-04-30 Preparing to sit for the Praxis Biology: Content Knowledge (5236) exam? Whether you're a recent biology graduate entering the teaching profession, a career changer seeking secondary school certification, or an experienced educator adding a new state certification, this is the most thorough and exam-aligned Praxis Biology study guide available for 2026 and 2027. The Praxis Biology (5236) Study Guide 2026-2027 by Marcus P. Foxworth covers all five major content domains tested on the ETS Praxis Biology exam — from scientific inquiry and biochemistry to genetics, evolution, plant and animal biology, and ecology — all 150 testable concepts covered in one expertly organized, exam-focused resource. Inside this comprehensive guide, you will find: Scientific methods, inquiry, and laboratory safety — the scientific method and hypothesis testing, experimental design, data collection and analysis, interpreting graphs and statistical data, laboratory safety protocols, laboratory equipment, engineering design process, applications of science and technology, and ethical considerations in scientific research Biochemistry: atoms, molecules, and chemical principles — atomic structure and elements, chemical bonding, properties of water and pH, organic molecules including carbohydrates, lipids, proteins and nucleic acids, enzymes, reaction kinetics and energy, and chemical reactions in living systems Cell structure and function — cell theory, prokaryotic vs. eukaryotic cells, cell organelles and their functions, cell membrane structure and transport, passive transport including diffusion and osmosis, active transport and bulk transport, and cell communication and signaling Cellular processes: energy metabolism and cell division — ATP and cellular respiration including glycolysis, Krebs cycle and electron transport chain, anaerobic respiration and fermentation, photosynthesis including light-dependent and light-independent reactions, chemosynthesis, the cell cycle, mitosis and cytokinesis, and meiosis and sexual reproduction DNA, RNA, and protein synthesis — DNA structure and organization, DNA replication, RNA structure and types, transcription, translation, gene expression and regulation, and mutations including types and effects Genetics: classical and molecular — Mendel's Laws of Inheritance, monohybrid and dihybrid crosses, Punnett squares and probability, dominant, recessive and codominant traits, incomplete dominance and multiple alleles, sex-linked traits, polygenic inheritance, chromosomal abnormalities and genetic disorders, biotechnology including PCR and gel electrophoresis, genetic engineering and CRISPR, and cloning Evolution and population genetics — Darwin's theory of evolution by natural selection, evidence for evolution, types of natural selection, adaptation and fitness, Hardy-Weinberg equilibrium, mechanisms of evolution including genetic drift, gene flow and mutation, speciation and reproductive isolation, and phylogenetic trees and cladograms Classification and diversity of life — taxonomy and binomial nomenclature, the three domains and six kingdoms, phylogenetic classification, viruses, bacteria and archaea, protists, and fungi Plant biology: structure, function, and reproduction — plant tissue and organ types, vascular vs. non-vascular plants, water and nutrient transport, transpiration and stomata, phototropism and plant responses, alternation of generations, flower structure and pollination, fertilization and seed development, and plant hormones including auxins, gibberellins, cytokinins, ethylene and ABA Animal biology: systems, behavior, and reproduction — animal tissue types, cell differentiation and specialization, major animal organ systems, and homeostasis and feedback mechanisms 5 full-length practice tests with 750+ questions and detailed answer explanations covering all five Praxis Biology content domains and every major testable concept Structured 6-week and 12-week study plans, exam registration guidance, scoring and passing requirements, and proven test-taking strategies for selected-response questions Every chapter ends with focused practice questions that mirror the format and difficulty of the actual Praxis Biology exam. The full-length practice tests are built to replicate the real exam experience — so you walk into the testing center prepared, confident, and ready to demonstrate your mastery. Your Praxis Biology certification is the gateway to the classroom. This guide gives you the content knowledge, exam strategy, and confidence to earn it. Master the content. Pass the exam. Start teaching.

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