Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
PreAP Biology Unit 13 - Chordates	9	6th Cycle	11 days

TEKS/Student Expectations	Examples/Specifications:
1A Students will demonstrate safe practices during field and laboratory investigation 1B Students will make wise choices in the use and conservation of resources and the disposal or recycling of materials. 2A Students will plan and implement investigative procedures 2B Students will collect data and make measurements with precision; 2C Students will organize, analyze, evaluate, make inferences, and predict trends from data; 2D Students will communicate valid conclusions. 3C Students will evaluate the impact of research on scientific thought, society, and the environment 5A Students will compare cells from different parts of plants and animals including roots, stems, leaves, epithelia, muscles and bones to show specialization of structure and function 7A Students will identify evidence of change in species using fossils, DNA sequences, anatomical similarities, physiological similarities, and embryology 8B Students will analyze relationships among organisms and develop a model of a hierarchical classification system based on similarities and differences using taxonomic nomenclature 10A Students will interpret the functions of systems in organisms including circulatory, digestive, nervous, endocrine, reproductive, integumentary, skeletal, respiratory, muscular, excretory and immune 10B Students will compare the interrelationships of organ systems to each other and to the body as a whole 11A Students will identify and describe the relationships between internal feedback mechanisms in the maintenance of homeostasis 12C Students will compare variations, tolerances, and adaptations of plants and animals in different biomes	. Students will: -Gather data, graph data, interpret data, distinguish observations from inferences, using laboratory equipment properly. -Study the evolutionary trends in animal development -Compare the feeding, respiration, circulation, excretion, response, movement, and reproduction of nonvertebrate chordates, fishes, amphibians, reptiles, birds, and mammals -Compare invertebrates to vertebrates -Perform laboratory dissections -Relate the importance of chordates to their environments, to humans, to society -Research Animal Phyla Survey Project -Research current scientific thinking about hominid evolution -Explain how environment and genetics produce animal behavior and learning

<table>
<tr><th>Language of Instruction:</th><th>Instructional Resources/Textbook Correlations:</th></tr>
<tr><td rowspan="3">Chordate, notochord, pharyngeal pouch, vertebra, cartilage, atrium, ventricle, cerebrum, cerebellum, medulla oblongata, lateral line system, swim bladder, oviparous, ovoviviparous, viviparous, cloaca, nictitating membrane, tympanic membrane, ectotherm, amniotic egg, carapace, plastron, feather, endotherm, crop gizzard, air sac, mammary gland, subcutaneous fat, rumen, diaphragm, cerebral cortex, monotreme, marsupial, placenta, binocular vision, prosimian, anthropoid, prehensile, hominoid, hominid, bipedal, opposable thumb, behavior, stimulus, response, innate behavior, learning, habituation, classical conditioning, operant conditioning, insight learning, imprinting, migration, circadian rhythm, courtship, territory, aggression, communication, language</td><td>Prentice-Hall Biology – Chapters 30-34

Laboratory Investigations:

Survey of Animal Phyla Project
Bullfrog Dissection Lab
Fish Animal Behavior Lab</td></tr>
<tr><th>Weblinks/Other Resources:</th></tr>
<tr><td>TAKS Workbook
www.unitedstreaming.com
National Geographic Videos
Discovery Videos</td></tr>
<tr><th>Evaluation/External Assessment/Local Assessment:</th><th>Best Instruction Timeline:</th></tr>
<tr><td>TAKS Bell Warmers and Workbook
Key Terms and Reading Quiz Chapters 30 -34
Chapter Worksheets
Laboratory reports and performance in lab
Chordate Unit Test</td><td>2 days - Nonvertebrate Chordates, Fishes and Amphibians
2 days - Reptile and Birds
2 days - Mammals
1 day - Comparing Chordates
2 days - Animal Behavior
2 days - Assessment</td></tr>
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