Honors Biology I



Evolution

Honors Biology Curriculum

Power Objectives	P.O. #2: Explain the mechanisms responsible for the evolution of life. (P.O. #2 Proficiency Rubric) P.O. #5: Design and conduct science investigations. (P.O. #5/6 Proficiency Rubric) P.O. #6: Appraise emerging scientific issues associated with the biological sciences. (P.O. #5/6 Proficiency Rubric)		
Academic Vocabulary	☐ gene flow ☐ allele frequency ☐ Hardy-Weinberg ☐ natural selection ☐ homology ☐ cladistics	□ clade □ monophyletic □ paraphyletic □ synapomorphy □ derived character □ sexual dimorphism	 □ Occam's razor □ homologous structures □ convergent evolution □ divergent evolution □ vestigial structures
Enduring Understanding Students understand that	The theory of evolution is the unifying principle in biology and explains the vast diversity and relatedness of all life.		
Essential Questions	 How can the environment influence which organisms survive in population? What role does mate selection play in evolution? How can scientists determine if evolution is taking place? What types of factors influence what phenotypes persist in a population? 		