AP Biology – Evolution Unit

Chapter 22 – Darwin – Descent with modification

* Natural Selection and adaptations
* Homologous, analogous, vestigial structures, convergent evolution

Chapter 23 – The Evolution of Populations

* Genetic variation allows for evolution
* Hardy-Weinberg equation and conditions that would cause equilibrium
* Genetic drift, founders effect, bottleneck effect, gene flow
* Directional, Disruptive, and Stabilizing Selection

Chapter 24 – The Origin of the Species

* Prezygotic and postzygotic barriers
* Allopatric and sympatric speciation

Chapter 25 – History of the Earth

* General timeline of history of the earth
* Consequences of Oxygen in the atmosphere
* Formation of early cells and scientific evidence

Chapter 26 – Phylogeny and the Tree of Life

* Binomial nomenclature, hierarchical classification
* Phylogenetic trees and cladograms