

- Antibiotic resistance:** Bacteria have high rates of mutation, so they are mutating to be resistant to antibiotic drugs. This poses a serious health concern.
- Artificial Selection:** Selective breeding to produce a desired outcome
- Balancing Selection:** Synonym of "Diversifying Selection"; natural selection that maintains stable frequencies of two or more phenotypic forms in a population (balanced polymorphism)
- Biogeography:** the study of past and present distribution of species
- Blue-footed boobies and their webbed feet (Intro):**



- Bottleneck Effect:** Genetic drift caused by a natural disaster or human involvement (poaching) that unselectively kills off individuals. The resulting reduction of a population is no longer genetically representative of the original population.
- Charles Darwin:** 1809-1882 English naturalist/scientist. Voyaged around the world on the HMS Beagle, documenting/collecting his findings. By studying his findings in later years, developed the theory of evolution through natural selection. Published "On The Origin of the Species" in 1859, which turned out to be extremely popular. His theories have been extensively expanded and tested.
- Cline:** A graded change in a character along a geographic axis. Example: north american bird/mammal size tends to increase with increasing latitude.
- Comparative Anatomy (Homology):** the study of the body structures in different organisms (homology is anatomical similarity due to common ancestry)
- Comparative Embryology:** the study of the formation, early growth, and development of different organisms
- Darwinian Fitness:** the success of an organism's (survival and) reproduction. The fittest individuals produce the most offspring because they survive better.
- DDT:** A pesticide. Kills almost every living thing that happens to come across it. Made mutant alleles advantageous, thus the pests evolved to be resistant to it.
- Descent with Modification:** concept of "evolution"; principle that each living species has descended, with changes, from other species over time

- Directional Selection:** Favors individuals at one of the phenotypic extremes
- Diversifying Selection:** Favors individuals at two (or more?) of the phenotypic extremes
- Entire Organism Fossilized:** only happens if the individual is buried in a medium that prevents bacteria/fungi from decomposing it (frozen in ice, acid bogs, amber).
- Evolution:** inherited change in organisms over time
- Evolutionary Adaptations:** inherited traits that enhance an organism's ability to survive and reproduce in its environment
- Fossil Record:** ordered array in which fossils appear within strata of sedimentary rocks
- Fossils:** imprints/remnants of organisms that lived in the past
- Founder Effect:** Genetic drift that occurs when a few individuals become isolated from a larger population and form a new population whose gene pool composition is not reflective of that of the original population.
- Galapagos Islands:** Islands that demonstrate Darwin's theory of evolution particularly well.
- Gene Flow:** Movement of alleles into or out of a population due to the migration of individuals to or from the population
- Gene pool:** total collection of genes in a population at any given time
- Genetic Drift:** A change in the allele frequency of a population as a result of chance events rather than natural selection.
- Hardy-Weinberg Equilibrium:** 1). No mutations. 2). Random mating. 3). No natural selection. 4). The population size must be extremely large, no genetic drift. 5). No gene flow.

Predicts genotype frequencies

- Heterozygote Advantage:** greater reproductive success of heterozygous individuals compared to homozygotes, tends to preserve variation in gene pools
- Homologous Features:** features that are similar in different species of common ancestry
- J.B. Lamarck:** believed in the false idea that evolution was the passing on of acquired characteristics, that individual animals and plants could acquire transmittable traits within a single lifetime.
- Microevolution:** Change in allele frequencies in a population over generations.
- Modern Synthesis:** a comprehensive theory of evolution that incorporates genetics and includes most of Darwin's ideas, focusing on populations as the fundamental units of evolution.
- Mutation:** A random change in an organism's DNA (that may create a new allele). Mutations are mostly harmful, but can be beneficial. Vital to evolution because it's the only force that generates new alleles

# Biology Population Study Guide

**SJ Ball**



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