

## Population Evolution Study Guide

### Key Concepts

- **Population:** A group of individuals of the same species that live in the same area and interbreed.
- **Gene Pool:** The total collection of genes in a population at any one time.
- **Allele Frequency:** The proportion of a particular allele in a population.
- **Genetic Variation:** Differences in the genetic makeup of individuals within a population.
  - Sources: Mutation, Gene Flow, Sexual Reproduction
- **Hardy-Weinberg Principle:** Allele and genotype frequencies in a population will remain constant from generation to generation in the absence<sup>1</sup> of evolutionary influences.<sup>2</sup>
  - **Conditions for Equilibrium:** No mutation, random mating, no gene flow, no natural selection, very large population size.
- **Mechanisms of Evolution:**
  - **Natural Selection:** Individuals with advantageous traits survive and reproduce more successfully, leading to adaptation.
    - Types: Directional, Stabilizing, Disruptive
  - **Genetic Drift:** Random changes in allele frequencies, especially in small populations (Bottleneck effect, Founder effect).
  - **Gene Flow:** Movement of genes between populations.
- **Sexual Selection:** Selection for traits that increase mating success. Can lead to sexual dimorphism.

### Important Terms

- Adaptation
- Fitness
- Genetic Drift
- Bottleneck effect
- Founder effect
- Gene Flow
- Mutation
- Natural Selection
- Phenotype

# Evolution Of Populations Study Guide

**Tyler L. Jackson**



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