

Study Guide: Ecology – Speciation

Species: A group of organisms that can interbreed and produce fertile offspring.

Models of Evolution

1) **Graduated model**, a species acquires small adaptations to its environment over millions of years
“Slow and Steady”

2) **Punctuated equilibrium model**, there are periods of stasis with occasional bursts of speciation.
“Fast Bursts”

Speciation: the formation of new and distinct species in the course of evolution.

Types of Speciation

1) **Allopatric**: Occurs when a physical barrier isolates pop.
“Apart”

2) **Sympatric** (Same Location) due to large-scale genetic changes.
“Same Location”