AP Bio Ch.24 Key Vocabulary and Concepts

Vocabulary:

**speciation**

**macroevolution**

**biological species concept**

**reproductive isolation**

**hybrids**

**prezygotic barriers**

**habitat isolation**

**temporal isolation**

**behavioral isolation**

**mechanical isolation**

**gametic isolation**

**postzygotic barriers**

**reduced hybrid viability**

**reduced hybrid fertility**

**hybrid breakdown**

**morphological species concept**

**ecological species concept**

**allopatric speciation**

**sympatric speciation**

**hybrid zone**

**reinforcement**

**fusion**

**stability**

**punctuated equilibria**

**gradualism**

Ch.24 Key concepts:

**Populations evolve over time, individuals do not evolve.**

**Diversity is good in a population (hybrid vigor).**

**Selection →evolution→adaptation**

**Speciation is when new species arise from a common ancestor and the rate at which this occurs can vary greatly due to differences in Genetics, Behavior, and Environment.**

**In punctuated equilibrium, long periods of very little evolutionary change are offset by what appears to be relatively fast evolutionary change. This may be true or it may simply look this way because of gaps in the fossil record.**

**In gradualism, speciation and evolution occurs at a steady rate over time.**

**Until recently speciation mostly relied on the fossil record, morphology, and behavior, but now we can add genetics to the study.**