

Vocab word	Definition	Picture
Prezygotic barriers	Blocks fertilization	
Habitat Isolation	occur in same geographic area, but occupy different habitats	
Temporal Isolation	species that breed during different seasons/years/day times	
Behavioral Isolation	different courtship rituals attracting mates unique to the species	
Mechanical Isolation	morphological differences prevent successful mating	
Gametic Isolation	sperm of one species can't fertilize eggs of another species (may not survive in reproductive tract)	
Post zygotic barrier	Blocks development after fertilization	
Hybrid inviability	genes of different parent species interact in ways that impair hybrid's development and survival	
Hybrid Sterility	different structure/number of chromosomes from parents may fail to produce normal gametes in hybrid	
Hybrid Breakdown	first-generation hybrids are fertile, but when they mate w/ another hybrid or parent species, the next generation is feeble or sterile	
Allopatric Speciation	gene flow is interrupted when a population is divided into geographically isolated sub-populations	
Sympatric Speciation	speciation in populations living in the same area	
Polyploidy	accident during cell division causes extra sets of chromosomes	
Autopolyploidy	more than two chromosome sets that are all derived from a single species	$2n \rightarrow 4n$ (mistake) $4n + 4n = \text{sad face}$ $2n + 4n = \text{sad face}$
Allopolyploidy	allopolyploid: fertile polyploid if they mate w/ each other but can't interbreed w/ either parent species (new species)	$A + B = \text{hybrid (H)}$ $A + H = \text{new species!}$
Hybrid Zone	region in which members of different species meet + mate (offspring w/ mixed ancestry)	
Punctuated Equilibrium	periods of apparent stasis (little change) punctuated by sudden change	
Gradualism	species evolve gradually over time	