**Evolutionary Processes and Outcomes**

**Natural Selection**

Genotype

Phenotype

**Factors that affect trait passage**

1. Heritability

2. Fecundity

3. Fertility

4. Survivorship

**Types of natural selection**

Stabilizing selection

Directional selection

Disruptive selection

**Heritability vs. Plasticity**

Heritability

Plasticity

VP = VG + VE

Examples

**Ecotypic Differences**

Ecotype

Example

**Convergent Evolution**

**Speciation**

Allopatrically

Parapatrically

Sympatrically

**Polyploidy**

Autopolyploidy

Allopolyploidy

Benefits of polyploidy

**Interesting Evolution examples**