#### Biology Evolution

Name:	

**Natural Selection** - Draw a graph that represents the change that occurs in the population before and after each type of selection process.



What is a Species?

Time

## Causes of Evolution:

- 1. Genetic Mutations (sudden genetic changes)
- 2. Gene Recombination (mixing different genes)
- 3. Genetic Drift (very small number of genes in a population)
- 4. Migration (moving in and out of a region)

#### How can you prove evolution is taking place today?

Hardy – Weinberg Law

A group of organisms will have NO evolution if you have:

- 1. Large populations
- 2. NO mutations
- 3. NO migration
- 4. Random mating

Is this possible in a natural environment?

### Types of Speciation -

- 1. Geographic isolation
- 2. Reproductive isolation
- 3. Adaptive radiation
- 4. Convergent evolution
  - A. Camouflage
  - B. Mimicry

# 5. Temporal isolation





This chart shows the process of Adaptive Radiation.