4-?-14

- All organisms come from a common ancestor
- Decendants spread into divers habitats
- History of life resembles a tree
- closer related shares characteristics

2 things are needed for evolution
1. Time
2. Population vargation
   variation is extensive in most populations
   sexually reproducing has variation from meiosis
   Evolution definition
1) change in allele frequency
2) in a given population
3) Over time

✗✗✗✗ Mechanisms 4 ways
1. Natural Selection - No perfect organism
2. Non-random mating - selecting for a characteristic of a mate
3. Genetic drift - Isolate part of populations. both become dif.
   1. founder effect - one island with one person and the pop starts
      from that one.
   2. bottleneck - reduce pop and small pop starts new pop.
4. Gene flow - take 2 pops & combine - Gene flow