

Monday, Feb 13, 2017

Pick up: none



Today you will:

- Mechanisms of Evolution Notes
- [Sexual Selection Video clip](#)
- [Dance!](#)

Homework/Planner:

Complete all pages up to ISN pg 153

❖ So... we've said that ADAPTATIONS just don't happen because of need → they are GENETIC...

❖ **What is the source of these variations?**

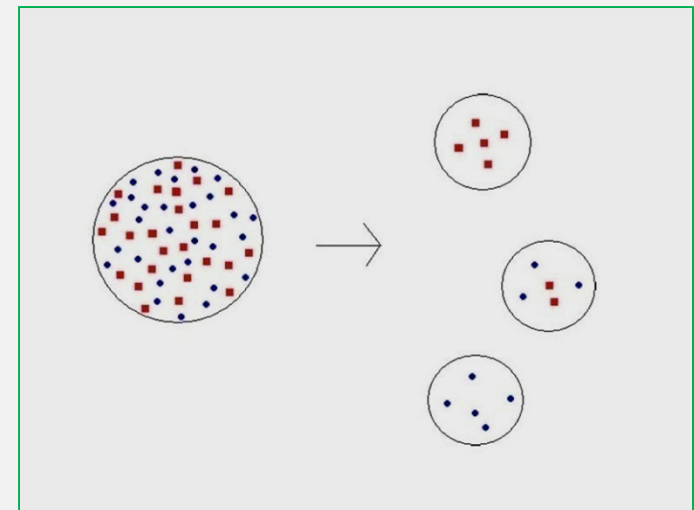
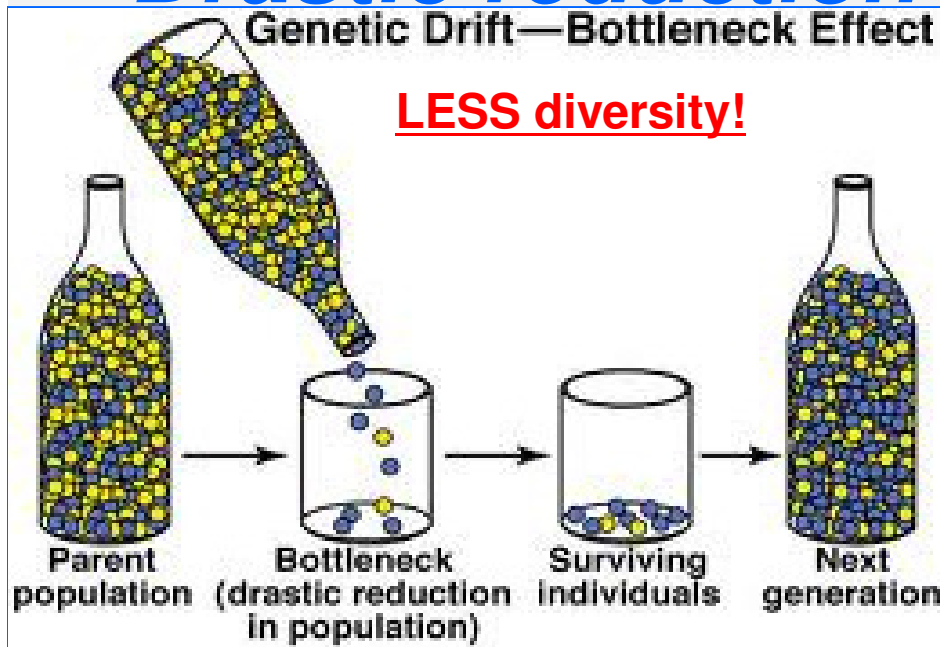
1. Random Mutations
2. Normal Recombination of alleles/genes through Crossing over (& Sexual Reproduction #5)
3. Natural Selection
4. Gene Flow
5. Genetic Drift
6. Sexual Selection

Genetic Drift

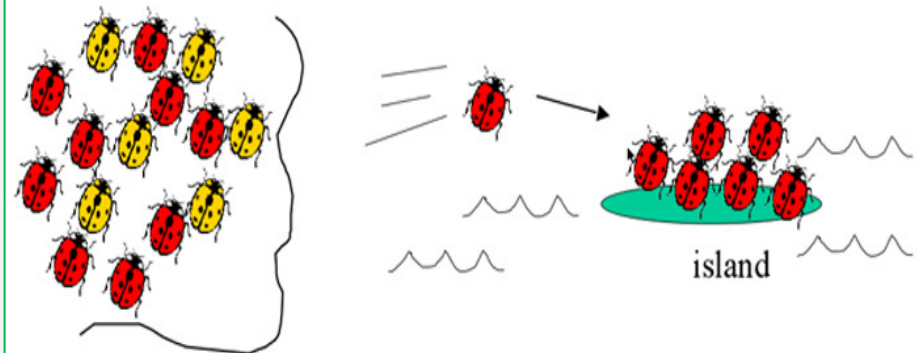
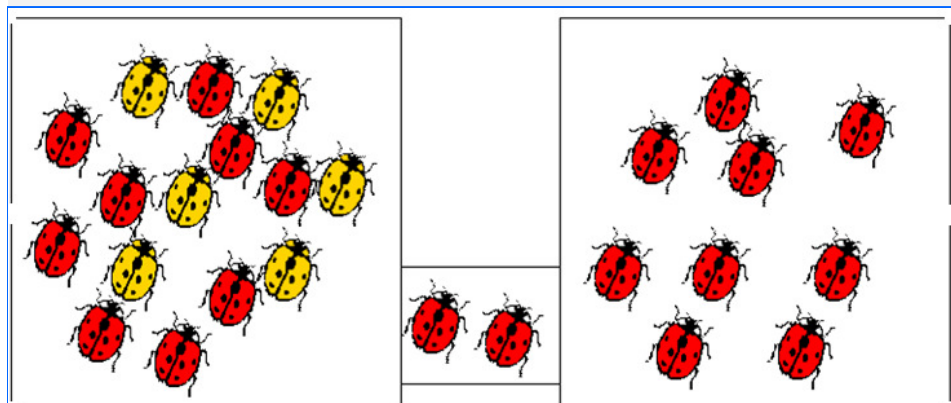
- It means → changes in allele/gene freq. due to CHANCE
- Works on → small pop. → they are more affected by chance changes in genes
- Results in LOSS of genetic diversity!!

Genetic Drift

- **Bottleneck Effect** vs **Founder Effect**
- **Drastic reduction** vs **Less reduction**



- founder effect: a few individuals from a population start a new population with a different allele frequency than the original population



Gene Flow

- It means → Movement (migration) from one population to another
- Works because → Mov.of genes = new traits in the receiving population
- Increased flow results in = more similarities between the two pop.
- Limited flow results in = more genetically different pop. → can become their own species!

Sexual Selection

InTRAsexual



InTERsexual



<https://www.youtube.com/watch?v=RxHdzw7E0wU>

- It means → Certain traits improve mating success
- Works because → those traits will increase the more they mate!
- InTRAsexual = competition among males – winner takes all!!
- InTERsexual = when males display their traits to try to attract female