

## V. Struggle for Existence (Driving Force # 3)

- A. The organisms in a population are those that have the
- B. The more offspring an organism leaves in the next generation, the it is.

## VI. Differential Survival & Reproduction (Driving Force # 4)

- A. Individuals with a that is to the have a greater chance of survival.
- B. Survival allows for the to .
- C. Individuals with advantageous variations will in each new generation.
- D. Individuals with disadvantageous variations will or be eliminated.
- E. Over generations species change; evolution occurs.

## VII. What other factors affect Evolution?

- A. Evolution occur as a result of natural selection.
- B. and events can influence the evolutionary process.

### C. Mutations

- a. Caused by or
- b. Change DNA producing

### D. Migration

- a. = individuals move a population
- b. = individuals move population
- c. = movement of genes from one population to another; causes a population to

- E. = Change of alleles in due to random events (EX: Bottleneck and Founder Effect)

### F. Nonrandom Mating

- a. Geographic proximity can cause
- b. - individuals with similar genes mate (humans mate with the same religion, racial group, physical type, etc.)

## VIII. Evidence Shows that Populations Continue to Evolve

- A. Humans variation changes in species
- B. Over use of antibiotics and pesticides cause
- C. = the intentional reproduction of individuals in a population that have desirable traits.