Name: \_\_\_\_\_\_\_\_\_\_\_

**Main Ideas Title: 5 Fingers of Evolution** Period: \_\_\_ Seat:\_\_

Change Any changes in a gene pool, in allele or genotype frequencies, is evolution of a population

(species)

5 Causes of 1) Genetic drift occurs in small populations

Change 2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when certain traits increase an individual’s success at mating

 3) Mutations- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4) Gene flow- genes move in and out of the population due to immigration and emigration

 5) Natural Selection (3 types…see next note section)

Genetic Drift Genetic Drift

 2 Types:

 Bottle neck-A random event such as a fire or flood that causes change.

 It \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ —any one can die or be

 lucky enough to survive

 Founder Effect- Individuals leave a large population to establish a new population. \_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Sexual Selection Explain how sexual selection leads to change in your own words:

 Why do you think sexual selection does not act on females in most species?

Mutations Explain how mutations lead to change in your own words:

Gene Flow Movement of fertile individuals between populations (immigration and emigration

 -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 - Reduce genetic differences between populations

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