

Name _____

Date ___/___/___

GENETICS

Population Genetics

Based on the tutorial: [The Gene Pool and Population Genetics](#)

Matching Type: Match the term with its proper definition/description. Write the letter of your answer on the blank before each number. Note: some answers are repeated.

Terms:

- | | |
|---------------------------|-----------------------|
| A. Population Genetics | F. Genetic drift |
| B. Adaptive radiation | G. Selective breeding |
| C. Natural selection | H. Speciation |
| D. Mutation | I. Gene pool |
| E. Reproductive isolation | |

- _____ 1. the formation of a new species
- _____ 2. a random change in the allele frequencies in a small population
- _____ 3. a new genetic variation in the gene pool
- _____ 4. when two groups of a species become separated and therefore cannot reproduce
- _____ 5. may lead to inbreeding depression and decreased genetic diversity
- _____ 6. also referred to as non-random mating
- _____ 7. studies evolution within populations
- _____ 8. a permanent, heritable change in the genome of an organism
- _____ 9. when one species evolves into a new species to fill an available niche
- _____ 10. defined as the stock of different genes in an interbreeding population
- _____ 11. results when differences in gene pool among species become so great that they cannot reproduce through interbreeding
- _____ 12. the drifting of the change in an allelic frequency due to a random event
- _____ 13. the species diversifies more and more from its ancestor over time
- _____ 14. the sum of genetic material of a population at a given time
- _____ 15. the process by which genes that make the species more suited to its environment are favored over those that are less beneficial to its survival and reproduction