

# EVOLUTION STUDY GUIDE

## Part 1: Vocabulary Review: Match each term to its definition.

1. \_\_\_\_\_ a change in a species over time and the process by which evolution occurs
2. \_\_\_\_\_ mechanism by which individuals have inherited beneficial adaptations and can produce more offspring
3. \_\_\_\_\_ all of the individuals of a species that live in the same area
4. \_\_\_\_\_ differences in physical traits of an individual within a population
5. \_\_\_\_\_ a body part that is similar in structure on different organisms but performs different functions
6. \_\_\_\_\_ the branch of biology that studies the early development of a species; evidence of evolution
7. \_\_\_\_\_ a diagram that displays proposed evolutionary relationships among a group of species
8. \_\_\_\_\_ evolution of two or more species from one ancestral species
9. \_\_\_\_\_ an inherited trait that allows an organism to better survive in its environment
10. \_\_\_\_\_ remains of an organism that lived in the past
11. \_\_\_\_\_ a structure that has no apparent function; evidence of evolution
12. \_\_\_\_\_ a model of evolution that speciation occurs slowly, over long periods of time
13. \_\_\_\_\_ a body part that is similar in function to a body part of another organism but is structurally different; not the same evolutionary origin
14. \_\_\_\_\_ group of organisms that can breed and produce fertile offspring
15. \_\_\_\_\_ physical movement of alleles from one population to another
16. \_\_\_\_\_ theory that states that speciation occurs suddenly and rapidly followed by long periods of little evolutionary change
17. \_\_\_\_\_ pattern of evolution of one or more closely related species into different species; resulting from adaptations to different environmental conditions
18. \_\_\_\_\_ the process where distantly related organisms evolve similar traits
19. \_\_\_\_\_ change in allele frequencies due to chance occurrences
20. \_\_\_\_\_ the state in which the frequency of alleles in a population stays constant
21. \_\_\_\_\_ states that genetic equilibrium will be reached when certain conditions are met

- A. cladogram
- B. variation
- C. speciation
- D. adaptation
- E. evolution
- F. fossil
- G. vestigial
- H. homologous structure
- I. analogous structure
- J. population
- K. species
- L. embryology
- M. gene flow
- N. natural selection
- O. gradualism
- P. punctuated equilibrium
- Q. convergent evolution
- R. genetic drift
- S. Hardy Weinberg Principle
- T. genetic equilibrium
- U. divergent evolution

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