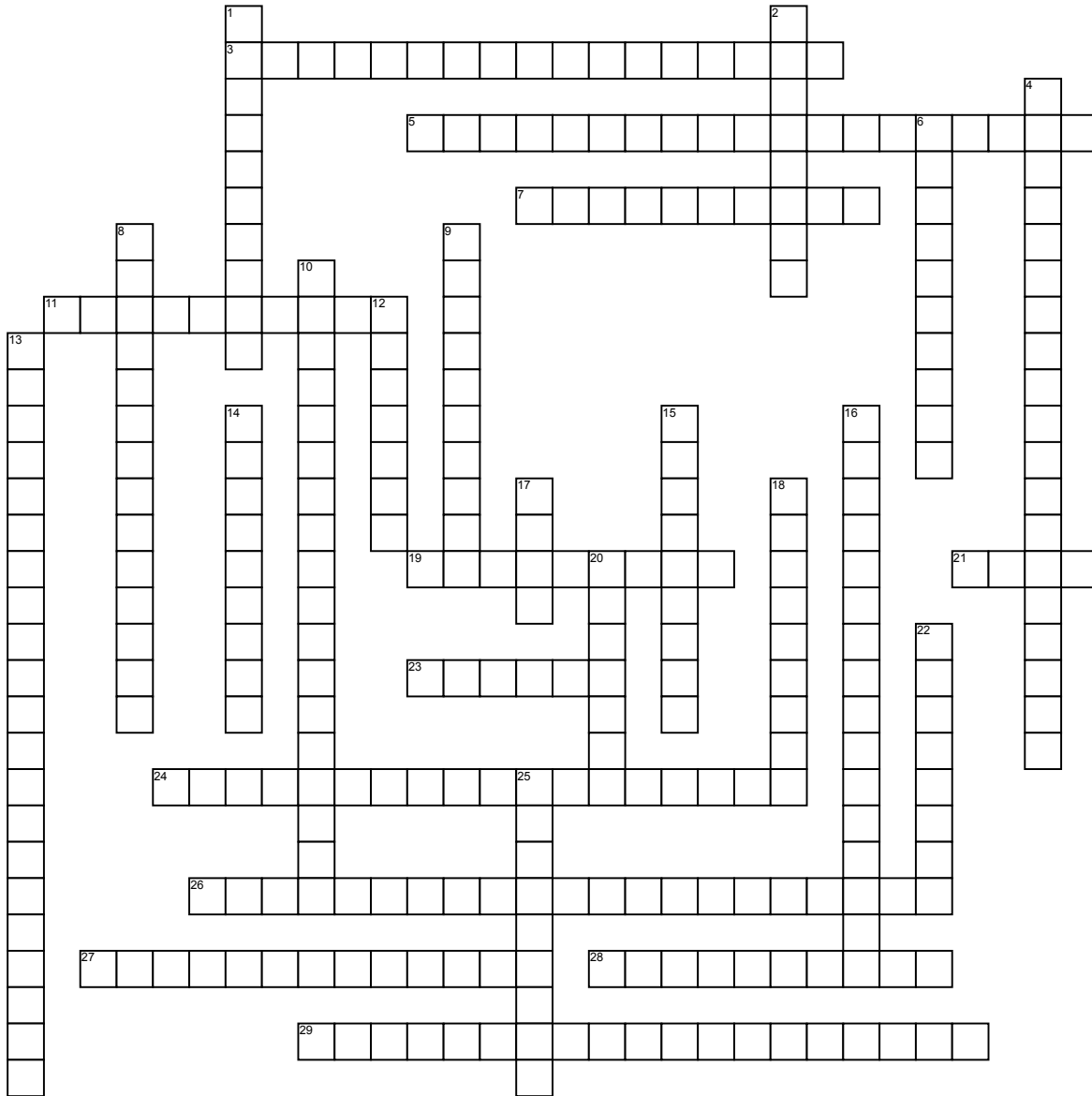


# Evolution and the Origin of Species



**Across**

- 3. reproductive isolation mechanism that occurs before zygote formation
- 5. speciation that occurs in the same geographic space
- 7. \_\_\_\_\_ speciation- speciation that occurs via geographic situation
- 11. \_\_\_\_\_ structures- parallel structures in diverse organisms that have a common ancestor
- 19. \_\_\_\_\_ structure- physical structure present in an organism but that has no apparent function and appears to be from functional structure in a distant ancestor
- 21. \_\_\_\_\_ polyploid- polyploidy formed between two related, but separate species
- 23. offspring of two closely related individuals, not of the same species
- 24. process by which groups of organisms evolve in diverse directions from a common point
- 26. situation that occurs when a species is reproductively independent from other species; behavior, location, or reproductive barriers may cause this to happen
- 27. continued speciation divergence between two related species due to low fitness of hybrids between them

28. allopatric speciation that occurs when something in the environment separates organisms of the same species into separate groups

29. type of reproductive isolation that occurs when a specific behavior or lack of one prevents reproduction from taking place

**Down**

- 1. formation of a new species
- 2. \_\_\_\_\_ isolation- differences in breeding schedules that can act as a form of prezygotic barrier leading to reproductive isolation
- 4. process by which groups of organisms independently evolve to similar forms
- 6. condition of a cell having an extra chromosome or missing a chromosome for its species
- 8. prezygotic barrier occurring when closely related individuals of different species mate, but differences in their gamete cells prevent fertilization from taking place
- 9. area where two closely related species continue to interact and reproduce, forming hybrids
- 10. reproductive isolation mechanism that occurs after zygote formation

12. group of populations that interbreed and produce fertile offspring

13. model for rapid speciation that can occur when an event causes a small portion of a population to be cut off from the rest of the population

14. allopatric speciation that occurs when a few members of a species move to a new geographical area

15. adaptive \_\_\_\_\_ - speciation when one species radiates to form several other species

16. reproduction of individuals with favorable genetic traits that survive environmental change because of those traits, leading to evolutionary change

17. \_\_\_\_\_ polyploid- polyploidy formed within a single species

18. habitat \_\_\_\_\_ - reproductive isolation resulting when species' populations move or are moved to a new habitat, taking up residence in a place that no longer overlaps with the same species' other populations

20. \_\_\_\_\_ speciation model- model that shows how species diverge gradually over time in small steps

22. heritable trait or behavior in an organism that aids in its survival and reproduction in its present environment

25. genetic differences among individuals in a population