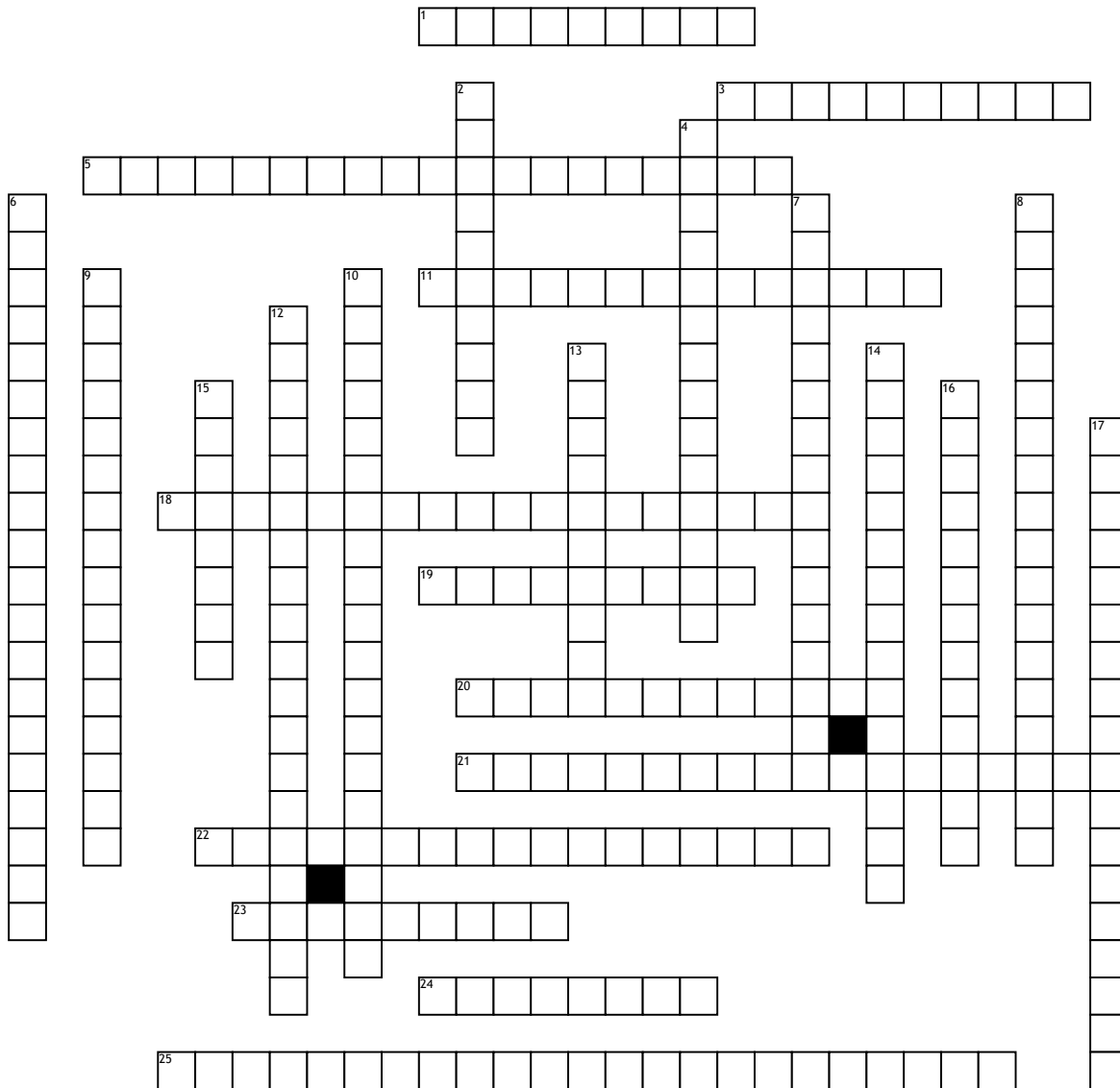


Chapter 11: Evolution and Its Processes



Across

1. allopatric speciation that occurs when a few members of a species move to a new geographical area
3. heritable trait or behavior in organism that aids in survival in present environment
5. evolution that results in similar forms on different species
11. broader scale of evolutionary changes seen over paleontological time
18. physical structure present in organism but has no apparent function and appears to be from functional structure in a distant ancestor
19. variety of alleles in a population
20. the effect of chance on a population's gene pool
21. study of how selective forces change allele frequencies in population over time
22. speciation when 1 species radiates out to form several other species

23. movement of individuals of a population to a new location; in population genetics, movement of individuals and their alleles from 1 population to another, potentially changing allele frequencies in both old and new population
24. flow of alleles in and out of a population due to the migration of individuals or gametes
25. Lamarck's theory where modifications caused by environment/ use or disuse of a structure could be inherited causing evolutionary change

Down

2. formation of new species
4. changes in population's genetic structure (allele frequency)
6. speciation that occurs via geographic separation
7. greater relative survival and reproduction of individuals in a population that have favorable heritable traits, leading to evolutionary change
8. evolution that results in different forms in 2 species with a common ancestor

9. magnification of genetic drift as a result of natural events or catastrophes

10. structure that's similar because of descent from a common ancestor

12. speciation that occurs in same geographic space

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

14. overarching evolutionary model that took shape by the 1940s and is generally accepted today

15. all of the alleles carried by all of the individuals in the population

16. magnification of genetic drift in a small population that migrates away from a large parent population carrying an unrepresentative set of alleles

17. structure that's similar because of evolution in response to similar selection pressures resulting in convergent evolution, not similar because of descent from a common ancestor