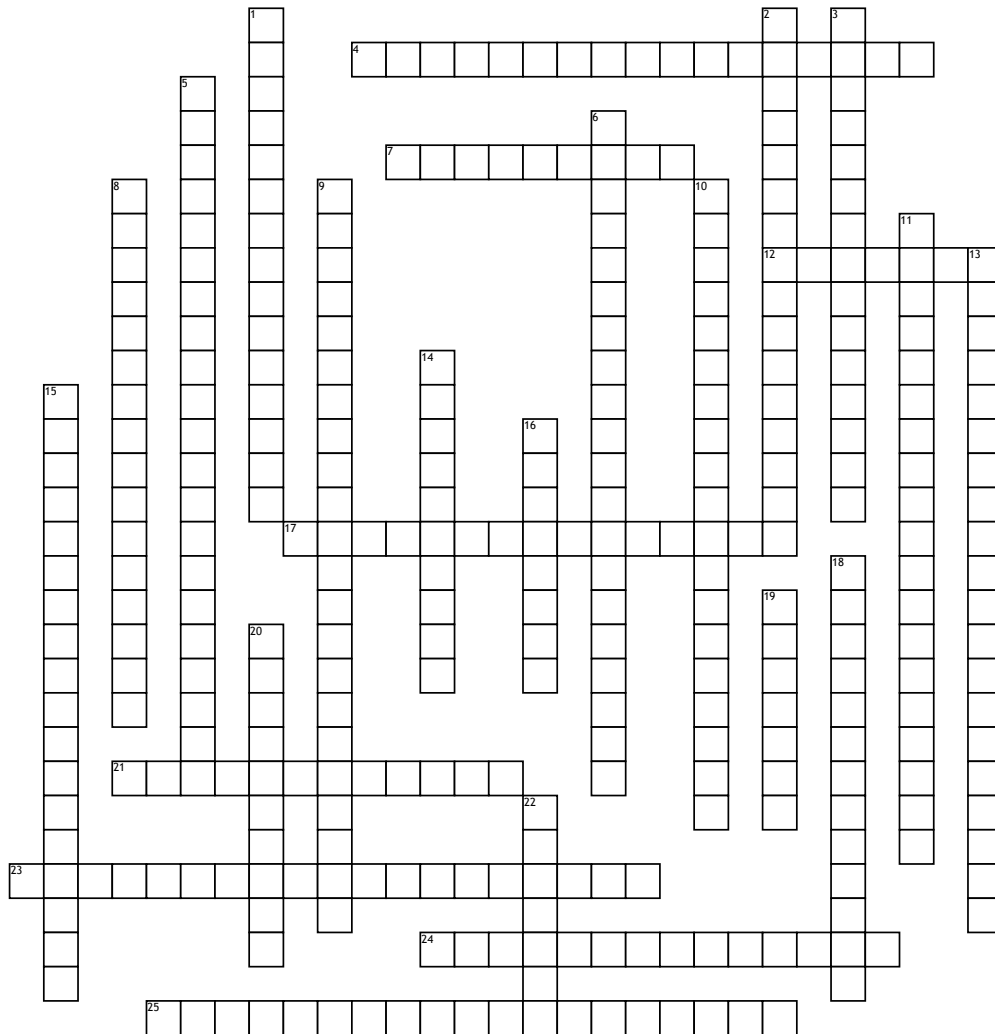


Name: \_\_\_\_\_

# Chapter 16 & 17 Vocab



## Across

4. When two or more species reproduce at different times  
7. The process of change over time  
12. group of population whose members can interbreed and produce fertile offspring  
17. Individuals select mates based on heritable traits  
21. random change in allele frequency  
23. Nature provides the variations, and humans select those they find useful  
24. uses mutation rates in DNA to estimate the time that two species have been evolving independently  
25. capable of interbreeding develop differences in courtship rituals

## Down

1. Many traits are controlled by two or more genes  
2. Occurs in any situation in which more individuals are born than can survive  
3. A trait controlled by only one gene  
5. When populations become re productively isolated  
6. When individuals at one end of the curve have higher fitness than individuals in the middle or at the other end  
8. Is a change in allele frequency following a dramatic reduction in the size of a population  
9. states that allele frequencies in a population should remain constant  
10. When two populations are separated by geographic barriers

11. When individuals at the outer ends of the curve have higher fitness than individuals near the middle of the curve  
13. When individuals near the center of the curve have higher fitness than individuals at either end  
14. formation of new species  
15. Allele frequencies in its gene pool do not change  
16. Consists of all the genes  
18. Allele frequencies change as a result of the migration of a small subgroup of a population  
19. Addition to collecting specimens of living species  
20. Any heritable characteristic that increases an organism's ability to survive and reproduce in its environment  
22. Describes how well an organism can survive and reproduce in its environment

## Word Bank

|                       |                         |                    |                        |                      |
|-----------------------|-------------------------|--------------------|------------------------|----------------------|
| Bottleneck Effect     | Natural Selection       | Temporal Isolation | Fossils                | Behavioral Isolation |
| Molecular Clock       | HardyWeinberg Principle | Adaptation         | Geographic Isolation   | Speciation           |
| Species               | Fitness                 | Genetic Drift      | Singlegene trait       | Disruptive Selection |
| Stabilizing Selection | Directional Selection   | Founder Effect     | Sexual Selection       | Artificial Selection |
| Genetic Equilibrium   | Evolution               | Gene Pool          | Reproductive Isolation | Polygenic traits     |