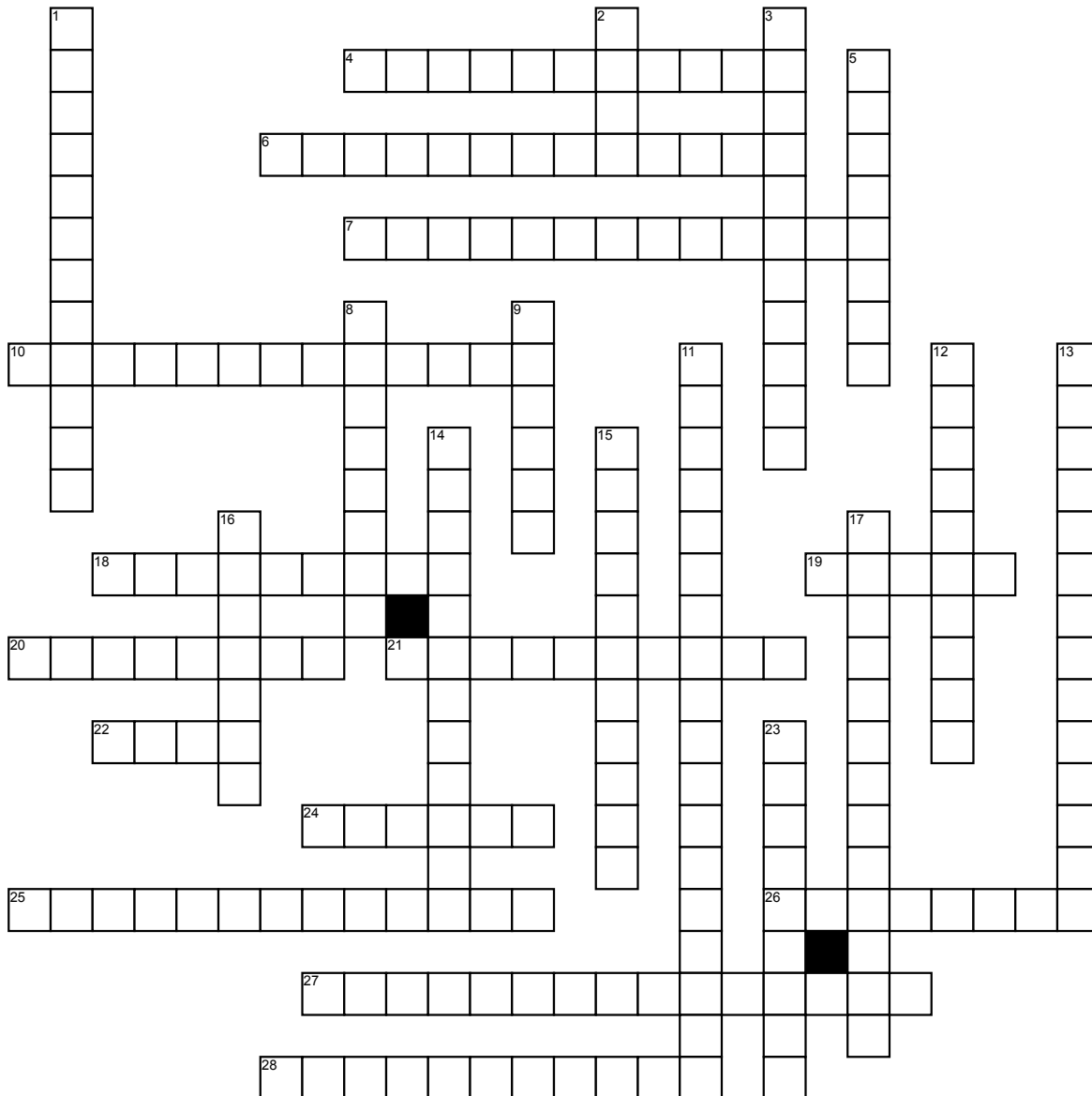


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Chapter 12 Vocabulary



Across

4. RNA molecule that transfers amino acids to ribosomes
 6. Enzyme that "proofreads" new DNA strands
 7. Binds to DNA and separates the strands
 10. DNA is copied into a complementary sequence in RNA
 18. Group of three bases on the tRNA molecule
 19. Three-nucleotide sequence on messenger RNA
 20. Region of DNA that indicate to an enzyme where to bind to make DNA
 21. Condition which an organism have extra chromosomes
 22. Expressed sequence of DNA
 24. Group of genes operating together

25. Virus that affects bacteria

26. Change in DNA sequence

27. Cells become specialized in structure

28. Copying process by which a cell duplicates its DNA

Down

1. RNA molecule that carries copies of instructions for the assembly of amino acid

2. Sequence of DNA that codes for a protein

3. Principle that bonds with DNA

5. Series of genes that control organs and tissues

8. Region of chromosome in an operon to which the repressor binds when the operon is off

9. Intervening sequence of DNA

11. Mutation that shifts the "reading" frame of the genetic message

12. Monomer of nucleic acid made up of 5-carbon sugar, a phosphate group, and a nitrogenous base

13. One strain of bacteria is changed by a gene or genes from another strain of bacteria

14. Type of RNA that makes up a major part of ribosomes

15. Decoding of a RNA message

16. Globular protein molecule around with DNA is tightly coiled in chromatin

17. Mutation that affects a single nucleotide

23. Granular material visible within the nucleus