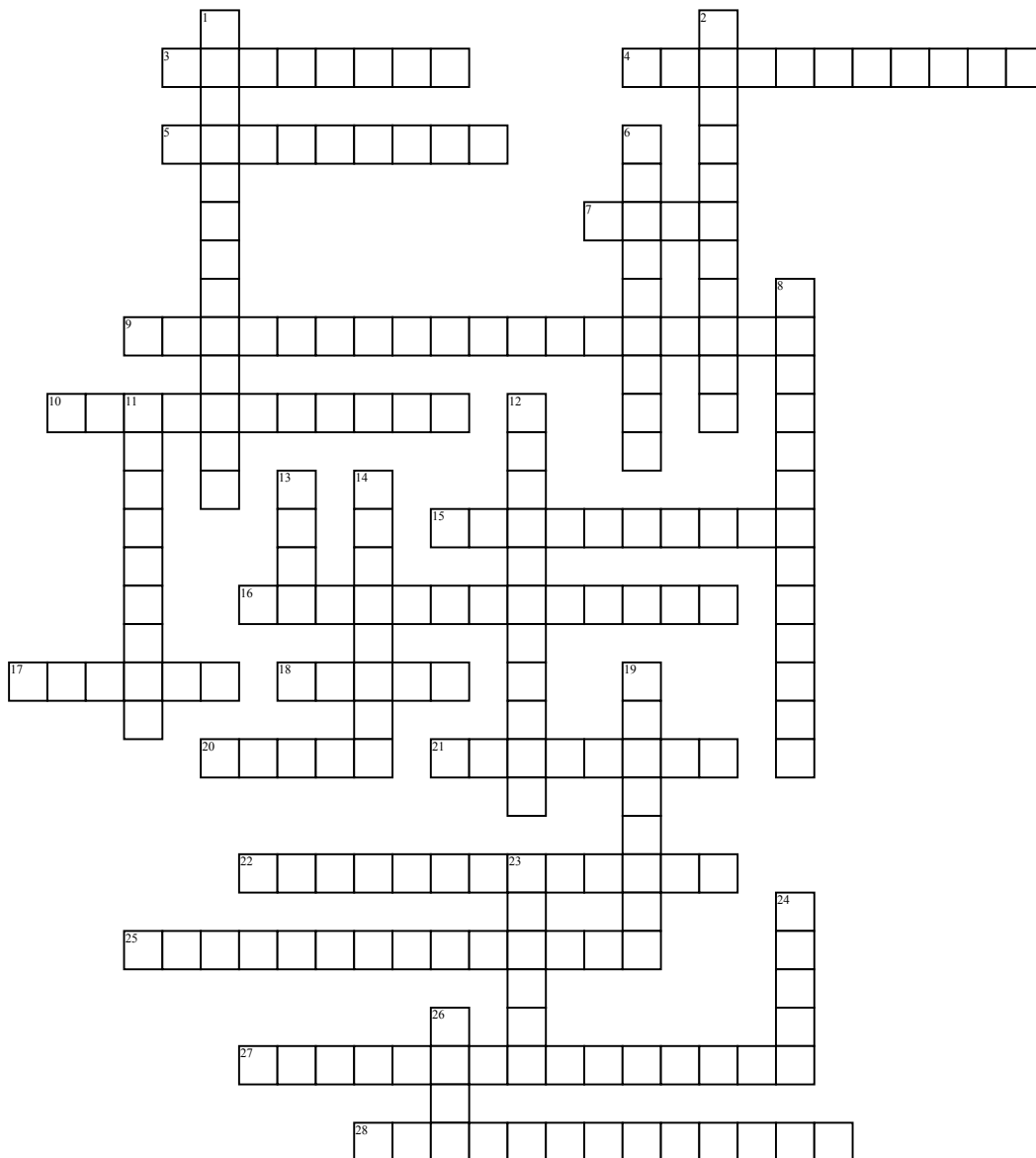


Unit 5 performance assessment



Across

3. Genes that control the differentiation of cells and tissues in the embryo
 4. Decoding of an mRNA message into a polypeptide chain
 5. Three unpaired bases in tRNA that are complementary to one mRNA codon
 7. RNA that transfers amino acids to the ribosome
 9. Changes that alter the reading frame of codons
 10. Process by which a cell duplicates its DNA
 15. condition in which an organism has extra sets of chromosomes
 16. "Bacteria Eater"
 17. group of genes that operate together
 18. coded DNA instructions

20. DNA sequences that code for proteins
 21. other region in an operons regulatory regions
 22. process by which RNA is produced by copying part of DNA into complementary RNA
 25. changing one strain of bacteria into another
 27. process cells go under during embryonic development
 28. Transcription requires this enzyme
Down

1. Mutations involving changes in one or a few nucleotides
 2. this explained Chargaff's rules
 6. DNA + Protein
 8. Principal enzyme in DNA replication

11. RNA polymerase can only bind to these regions of DNA
 12. Units that make up DNA
 13. RNA molecules that carry instructions for amino acids
 14. Proteins that wrap themselves around DNA
 19. changes in genetic material
 23. sequences of nucleotides not involved in coding for proteins
 24. three consecutive nucleotides
 26. RNA that helps make up ribosomes