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- Chapter 14 - DNA \_\_\_\_\_ Proteins \_\_\_\_\_ Name \_\_\_\_\_
1. Name the 3 main levels of DNA and their main purpose.
  2. Name three differences between mRNA and DNA.
  3. The process where the DNA message is copied into mRNA is called \_\_\_\_\_.
  4. What enzyme is responsible for adding RNA nucleotides to the growing strand?
  5. What is the purpose of a promoter?
  6. Describe how DNA is edited after being copied from the DNA. Use and explain the terms *error* and *edit*.
  7. Define codon.
  8. # of amino acids \_\_\_\_\_ # of different codons \_\_\_\_\_.
  9. The codon \_\_\_\_\_ is called a START codon. List all codons code for amino acids, some list the protein chain to \_\_\_\_\_.
  10. Define anti-codon.
  11. Describe translation.
  12. Where does translation occur?
  13. Refer to Figure 14.8 and use the genetic code to translate the mRNA sequence:  
UAUGCCACCCAGAAACUAG
  14. Transcribe then translate the following DNA sequence:  
GAAGCTCCCGCTAAGCCTATC
  15. Some mutations occur when a small amount of DNA is changed. Describe a mutation that is a base pair substitution.
  16. Describe the two ways there can be a "translatable" mutation.
  17. Which is probably more harmful – substitution or frameshift – and why?
  18. What are "transposable elements" and why are they problematic?
  19. What agent's cause an increase in mutations?

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