

Chapter 12 DNA and RNA

Vocabulary Review

Matching *In the space provided, write the letter of the definition that best matches each term.*

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|---------------------------|---|
| _____ 1. base pairing | a. making a protein using messenger RNA |
| _____ 2. nucleotide | b. having extra sets of chromosomes |
| _____ 3. histone | c. hydrogen bonding between adenine and thymine |
| _____ 4. transcription | d. sequence in messenger RNA that is cut out |
| _____ 5. intron | e. cells specializing in structure and function |
| _____ 6. translation | f. carries amino acids to the ribosome during protein synthesis |
| _____ 7. transfer RNA | g. unit of DNA |
| _____ 8. promoter | h. copying part of DNA into RNA |
| _____ 9. mutation | i. change in the genetic material |
| _____ 10. polyploidy | j. group of genes that work together |
| _____ 11. operon | k. DNA sequence that binds RNA polymerase |
| _____ 12. differentiation | l. protein that binds DNA into tight coils |

Labeling Diagrams *The diagrams below show the steps of DNA replication. Place the numbers 1 to 3 on the lines above the diagrams to show the order in which the steps occur.*

13. _____ 14. _____ 15. _____

