Chapter 8 "From DNA to Protein" Study Guide

- 1. What is a nucleotide?
- 2. What are the nitrogenous bases and how do they pair up.
- 3. Draw a DNA molecule and label the sugar, phosphate and nitrogen base molecules.
- 4. What is the name of the DNA structure?
- 5. Explain the structure of the DNA molecule.
- 6. What is DNA replication and where does it take place?
- 7. What enzyme is involved in DNA replication?
- 8. Explain what the central dogma is.
- 9. What are the three differences between a DNA molecule and an RNA molecule?
- 10. Explain what transcription is and what it produces?
- 11. What are the three types of RNA molecules and the function of each?
- 12. Explain what translation is and what it produces?
- 13. What is a codon?
- 14. What is the anitcodon?
- 15. How many letters correspond for an amino acid?
- 16. Why is engineering possible?
- 17. Define a clone.
- 18. What does the "blueprint of life" refer to?
- 19. Where are proteins made?
- 20. What is a genome?
- 21. What are the steps of DNA replication?
- 22. What is the function of transcription?
- 23. What is the function of translation?
- 24. What are the 4 types of mutations?