Protein Synthesis Review

1. Fill in the table below.

	DNA	RNA
Sugar		
Nitrogen Bases		
How many strands		

- 2. Describe DNA replication (include the words: DNA polymerase, nucleotides, and semiconservative).
- 3. What does semiconservative mean?
- 4. Describe the process of transcription (include the words: RNA polymerase, RNA nucleotides, nuclear pore, nucleus).
- 5. Describe the process of translation (include the words: mRNA, tRNA, ribosome, polypeptide, codon).
- 6. In RNA, what bases pair up?
- 7. What type of RNA do you use to find the amino acid?
- 8. What is the function:
 - a. mRNA
 - b. tRNA
- 9. What is being produced during transcription?
- 10. What is being produced during translation?
- 11. What is a codon? Give an example.
- 12. If a strand of DNA is CTGAATCCG, what would be the complementary strand of mRNA?
- 13. If an mRNA codon is GUA, what would the tRNA anticodon be?
- 14. For the mRNA codon GUA, what would the corresponding amino acid be?
- 15. For the mRNA codon CCG, what would the corresponding amino acid be?
- 16. How many codons code for "stop"?
- 17. What do "stop" codons do?
- 18. What is the codon for the amino acid tryptophan?
- 19. What are the building blocks of proteins?
- 20. What are the three parts of a nucleotide?

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