Name ____________ Date ______ Class ______

Reinforcement and Study Guide

Chapter 11 DNA and Genes, *continued*

Section 11.2 From DNA to Protein

In your textbook, read about genes and proteins and RNA.

Complete the chart on the three chemical differences between DNA and RNA.

Structure	DNA	RNA
1. strands of nucleotides		
2. sugar		
3. nitrogenous base		

In your textbook, read about the genetic code.

Complete each statement.

4. Proteins are made up of amino acids.
5. There are twenty different types of ____________.
6. The message of the DNA code is information for building ____________.
7. Each set of three nitrogenous bases that codes for an amino acid is known as a codon.
8. The amino acid ____________ is represented by the mRNA codon GCA.
9. ____________ and ____________ are mRNA codons for phenylalanine.
10. There can be more than one ____________ for the same amino acid.
11. For any one codon, there can be only one ____________.
12. The genetic code is said to be universal because a codon represents the same ____________ in almost all organisms.
13. UAA, UAG, and UGA are stop codons.
14. ____________ and ____________ are amino acids that are each represented by only one codon.