Date

### Chapter **1** DNA and Genes, continued

# **Reinforcement and Study Guide**

Class

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. strand of nucleotides	а.	b.
2. sugar	a.	b.
3. nitrogenous base	а.	b.

#### In your textbook, read about the genetic code.

#### Complete each statement.

4. Proteins are made up of	<u></u>
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

8. The amino acid \_\_\_\_\_\_\_ is represented by the mRNA codon ACA.

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		, and	are stop codons.
14	and		are amino acids that are each
represented by o	nly one codon.		

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Name	Date	Class
Chapter <b>DNA and Genes,</b> continued	Reinforc	ement and Study Guide 11.2. From DNA to Protei
In your textbook, read about transcription from DNA to m	RNA.	
Complete each statement.		
<b>15.</b> Proteins are made in the cytoplasm of a cell, whereas I	ONA is found only i	n the
<b>16.</b> The process of making RNA from DNA is called		
<b>17.</b> The process of transcription is similar to the process of	f DNA	•
18 carries information fro	m the DNA in the n	nucleus out into the cyto-
plasm of the cell.		
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