

Name: _____

Pd: _____

Date: _____

Part One: DNA Transcription Review

Home work: Due 12/3!

1. Complete the following chart.

DNA Nucleotide Base	Complementary RNA Base
Guanine	
Adenine	
Thymine	
Cytosine	

2. What are 3 ways in which the structure of RNA differs from that of DNA? (Use your Class Notes to help you answer this question.)

3. Where in the cell does transcription take place?

4. What is the end product of transcription?

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Part Two: Protein Synthesis Review

Match each term with the correct description by writing the letters on the lines provided.

- | | |
|--|---------------|
| 1. _____ group of 3 bases on tRNA | a. Ribosome |
| 2. _____ group of 3 bases on mRNA | b. Anticodon |
| 3. _____ building block of proteins | c. Nucleus |
| 4. _____ site where DNA is transcribed | d. Codon |
| 5. _____ organelle used in translation | e. Amino acid |
| 6. _____ product of translation | f. mRNA |
| 7. _____ product of transcription | g. protein |

8. Complete the following chart.

Codon	Matching Anticodon
GCA	
UUU	
ACC	

9. Describe the role of tRNA in translation (What does tRNA do?)

Name: _____ Per. _____ Date: _____

CODING THE CODONS

Use the Universal Codon Chart to solve the following problems.

1. For each codon listed below, write the name of the amino acid that it matches.

ACA: _____

AAA: _____

CGU: _____

UAU: _____

GCU: _____

GUA: _____

AUG: _____

CUC: _____

UUA: _____

CAA: _____

CCG: _____

UGC: _____

GGA: _____

UCC: _____

GAC: _____

AGC: _____

2. List the three stop codons: _____

3. List the codon(s) for tryptophan: _____

4. List the codon(s) for isoleucine: _____

5. List the codon(s) for arginine: _____