		5
Name	Date	Period
	RNA, and Protein GY: Chapter 6-9	Synthesis
Directions : Use your notes and book to Transcription, and Protein Synthesis.	o answer the following question	s concerning Replication
1. Define the following terms:		
a. Replication -		
b. Transcription -		
c. Translation -		
2. Break the following DNA sequence in	nto triplets . (Draw a line to sep	arate triplets)
CCGATACGCGGT	ATCCCAGGGC	TAATTUAA
3. If the above code showed the bases strand read?	on one strand of DNA, what wo	ould the complementary
4. What would the code in problem #2 be?)	pe transcribed into (What woul	d the mRNA sequence
5. How many codons are there in the a	above problem?	

6. What is the three letter sequence on a **tRNA** molecule called?

8. How many different **codons** are there?

7. How many different **amino acids** are there that make up all of the proteins in our body?

9. What would the **amino acid sequence** be translated from the mRNA sequence in problem #4? (Use the Genetic Code table below to translate)

Codons Found in Messenger RNA

Second Base U С G Tyr Cys Phe Ser U Phe Ser Tyr Cys С Α Stop Leu Ser Stop G Leu Ser Stop Trp U Pro His Arg Leu С Pro His Leu Arg Third Base First Base Pro Gln Leu Arg Pro Gln Arg Leu U Thr Asn Ser lle Thr Ser lle Asn Α Thr Lys Arg lle G Thr Met Lys Arg U Val Ala Asp Gly Asp С Val Ala Gly G Α Val Ala Glu Gly

Glu

G

Gly

10. Complete the table below. Use the following DNA sequence.

CGGCTATTCGACCCTTACGGTATTGGG

Val

Ala

DNA triplets	mRNA codon	tRNA anticodon
CGG	GCC	CGG