

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

# Worksheet: DNA, RNA, and Protein Synthesis

## BIOLOGY: Chapter 6-9

**Directions:** Use your notes and book to answer the following questions concerning Replication, Transcription, and Protein Synthesis.

1. Define the following terms:

a. **Replication-**

b. **Transcription-**

c. **Translation-**

2. Break the following DNA sequence into **triplets**. (Draw a line to separate triplets)

CCGATACGCGGTATCCAGGGCTAATTUAA

3. If the above code showed the bases on one strand of DNA, what would the **complementary strand** read?

4. What would the code in problem #2 be **transcribed** into (What would the mRNA sequence be?)

5. How many **codons** are there in the above problem?

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

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

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

