

### Protein Synthesis Worksheet

1. Write all of the possible codons that could make the following amino acid.

Start    Leucine        Proline        Alanine        Stop        Start        Glycine        Stop

2. How many amino acids are there in the above sequence? \_\_\_\_\_

3. How many proteins are there in the above sequence? \_\_\_\_\_

4. How many codons are there for the above sequence (not 23)? \_\_\_\_\_

5. Write the nucleotides for DNA and for RNA.

DNA -

RNA-

6. Complete this sequence to demonstrate replication.

G    T    T    A    G    C    C    C    T    G    A    A    T    G    C

7. How many codons are there in the above sequence? \_\_\_\_\_

8. Complete this sequence to demonstrate transcription.

A    T    T    A    C    G    A    A    G    C    T    A    A    T    C

9. How many codons are there in the above sequence? \_\_\_\_\_

Where does each of these processes occur in the cell?

10. Replication -

11. Transcription -

12. Translation -