

# REPLICATION, TRANSCRIPTION, & TRANSLATION

Name \_\_\_\_\_ Date \_\_\_\_\_ Hr. \_\_\_\_\_

1. What are the differences between... (Use complete sentences!)

a. Replication -

\_\_\_\_\_

b. Transcription -

\_\_\_\_\_

c. Translation -

\_\_\_\_\_

2. **Replicate** the following DNA strand...

DNA - ATGCATGCATGCATATATTTTCAGCATACGAT

DNA2 -

Use your genetic chart to **transcribe** & **translate** the following strands.  
Remember to look for the start codon before you translate!

3. mRNA - AUGAGCGUGCUCGUACGACGCUACGAU

Amino Acid Sequence

\_\_\_\_\_

4. DNA - TACCATGGTACGTACGGATCAGCCAATCGC

mRNA -

Amino Acid Sequence

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\_\_\_\_\_

5. DNA - GTTACATAAAGTAACCTAATAGTCAGCTA  
mRNA –

Amino Acid Sequence

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6. DNA - TTACATGCATGCGCGGCCTAGCATCTTA  
mRNA –

Amino Acid Sequence

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7. **Replicate** the given DNA, then **Transcribe** the complimentary DNA strand, and finally **translate** that new RNA into the appropriate amino acid sequence...

DNA1 - ATGCATGCAGCGCATAGCTATGCGTAA

DNA2 –

mRNA –

Amino Acid Sequence

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