DNA Transcription and Translation

Name ____________________

Date _________ Period ______

Directions:
1. Transcribe the DNA sequences below into mRNA.
2. Use the codon table on the back to translate it to an amino acid sequence.
3. Use the decoding chart to decode the message in the amino acid sequence.

Read the top strand in this direction →

5' G T A T C C C T T G A C T T C A A A G G G C C C A T G A A G G G T 3'

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3' C A T A G G G A A C T G A A G T T T C C C G G G T A C T T C C C A 5'

← Read the bottom strand in this direction

Top Strand

DNA code: **G T A T C C C T T G A C T T C A A A G G G C C C A T G A A G G G T**

mRNA sequence: ____

Amino acid sequence: ____

Bottom Strand

DNA code: **A C C C T T C A T G G G C C C T T T G A A G T C A A G G G A T A C**

mRNA sequence: ____

Amino acid sequence: ____

Message:

___ ___ ___   ___ ___ ___ ___ ___ ___ ___ ___ ___   ___ ___ ___   ___ ___ ___ ___ ___ ___ ___!