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:**

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