

**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: **GTATCCCTTGACTTCAAAGGGCCCATGAAGGGT**

mRNA sequence: \_\_\_\_\_

Amino acid sequence: \_\_\_\_\_

**Bottom Strand**

DNA code: **ACCCTTCATGGGGCCCTTTGAAGTCAAGGGATAC**

mRNA sequence: \_\_\_\_\_

Amino acid sequence: \_\_\_\_\_

**Message:**

\_\_\_\_\_ !