

Name \_\_\_\_\_

Date \_\_\_\_\_

## Protein Synthesis

1. Using the amino acid chart, fill in the amino acid that corresponds to the given mRNA codon.

mRNA codon	Amino Acid
UGG	
GUA	
UGA	
CAC	

2. Given the DNA code, fill in the complementary mRNA codon and the corresponding amino acid.

DNA code	mRNA codon	Amino Acid
CGT		
AAC		
ACT		

- All codons are \_\_\_\_\_ bases long.
- What is the base sequence for the mRNA “start codon”? \_\_\_\_\_
- All proteins begin with which amino acid? \_\_\_\_\_
- Where in the cell does translation take place? \_\_\_\_\_
- tRNA has an \_\_\_\_\_ at one end that complements the mRNA codon and an \_\_\_\_\_ at the other end.
- There are \_\_\_\_\_ different kinds of amino acids.
- Amino acids are held together by \_\_\_\_\_ bonds.
- Translation ends when the ribosome reaches a \_\_\_\_\_ codon.