Protein Synthesis Study Guide

Define the following….

1. Ribosomes
2. Transcription
3. Translation
4. Mutation
5. Protein Synthesis
6. RNA
7. Codon
8. Anticodon
9. Amino Acid
10. DNA

What is DNA responsible for?

How would the following be in ¨order¨? - Protein RNA DNA

Where are ribosomes found?

What makes up an RNA strand?

How is RNA different than DNA?

What are the 3 types of RNA and function of each?

How does transcription happen?

How do bases bind in DNA?

How do bases bind in RNA?

What are the 4 steps of translation?

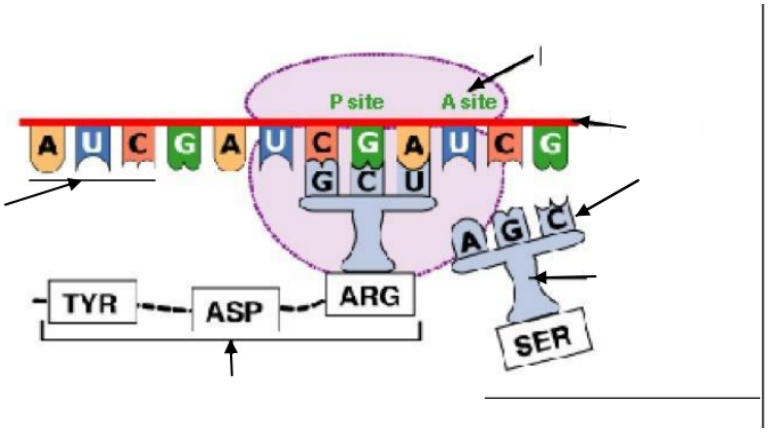
What are the types of mutations and their subunits?

What RNA strand determines the amino acid sequence?

How many amino acids are there?

Label the following...

a) ribosome
b) mRNA
c) tRNA
d) codon
e) anticodon
f) amino acid chain



*******Be able to code DNA to RNA, and label the amino acids*******

Complete the following chart using your codon chart:

a. Complete the mRNA codon column by writing the correct **<u>mRNA</u>** codon for each DNA base sequence given
b. Write the correct tRNA anticodon that binds to each mRNA codon.
c. Using your mRNA code chart, identify the name of the correct amino acid

DNA Base	mRNA Codon	tRNA Codon	Amino Acid
CCC			
TAT			
GAG			
GCG			
AAC			
TTG			
CTC			
GGA			
TTT			
CGC			