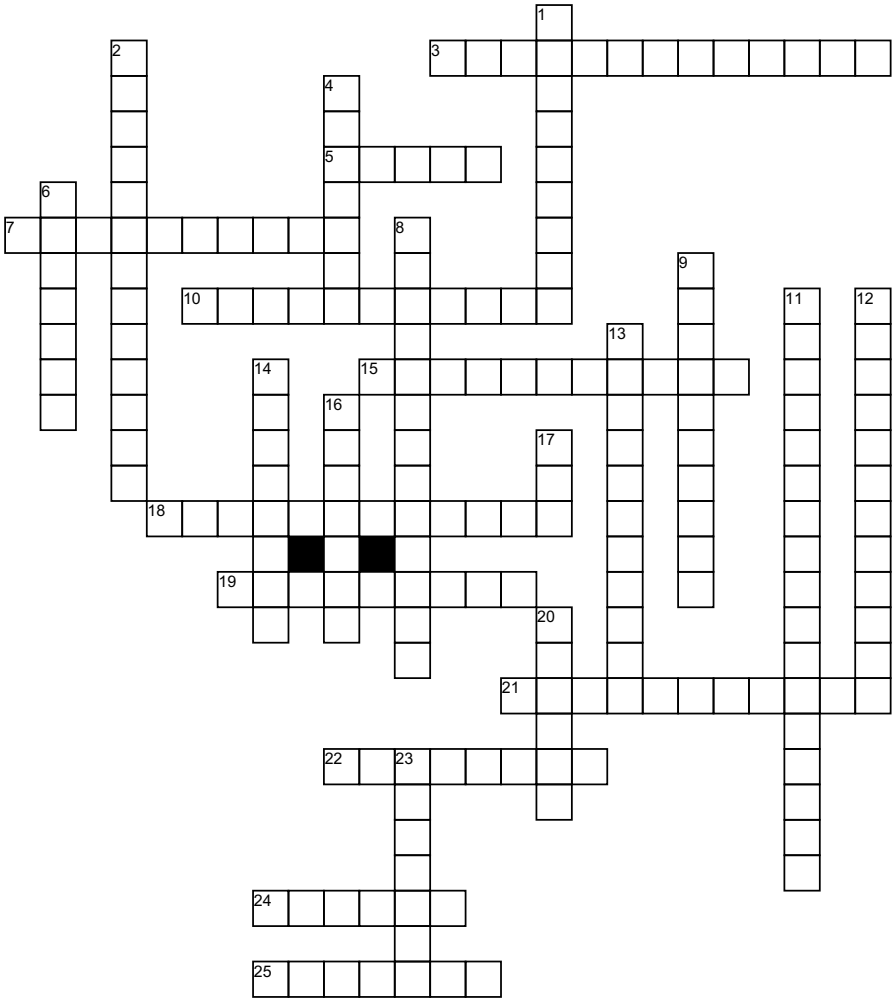
Name: _____ Date: _____

Protein Synthesis



Across

3. process of copying a nucleotide sequence of DNA
5. sequence of three nucleotides that codes for one amino acid
7. monomer that forms DNA
10. process by which mRNA is decoded and a protein is produced
15. in which two strands wind around one another, to that of a twisted ladder
18. carries genetic information from the nucleus to the cytoplasm
19. molecule that makes up proteins, composed of carbon, hydrogen, oxygen, nitrogen and sometimes sulfur
21. form of RNA that brings amino acids to ribosomes during protein synthesis
22. matches with Guanine
24. matches with Adenine
25. Polymer composed of amino acids linked by peptide bonds; folds into a particular structure depending on bonds between amino acids

Down

1. sequence of three nucleotides in a tRNA molecule that binds to a complementary mRNA codon during translation
2. enzyme that makes bonds between nucleotides
4. double membrane that acts as the storehouse for most cell's DNA
6. matches with Cytosine
8. enzyme that catalyzes the synthesis of a complementary strand
9. nitrogenous base, has one circular ring structure, C, T match with purine
11. either of the two sides that make up a double helix of DNA
12. RNA that is in the ribosome and guides the translation of mRNA into a protein
13. process by which DNA is copied
14. organelle that links amino acids together to form proteins
16. matches Thymine and Uracil
17. molecule that allows for transmission of genetic information and protein synthesis
20. nitrogenous base, has two circular ring structures, A, G match with a pyrimidine
23. matches with Adenine

Word Bank

Double Helix
complementary side
RNA
RNA polymerase
Replication
Guanine
Messenger RNA
Pyrimidine
Ribosomal RNA
Purine
Nucleus
Codon
Anticodon
Amino Acid
Transcription
Thymine
Translation
Cytosine
Transfer RNA
Ribosome
Adenine
Nucleotide
Uracil
DNA polymerase
Protein