## Protein Synthesis Remediation Questions

	Name:	Date:	Block:
What	Targets need remediation?		
<b>Direc</b> missed again!	etions: Using your notes, study guide or classroom te.  N. WRITE IN COMPLETE SENTENCES! Wh	xtbook; answer the following q en you are finished with these	uestions for the Targets you questions, try the multiple choice
	<b>Et 1: DNA Structure</b> Explain in detail the overall shape and parts of DN make up a nucleotide.	A. Include what nucleotides a	re, and the three parts that
2.	What are the base pairing rules of DNA?		
3.	If there is 20% Adenine in DNA, how much is there	e of Thymine? Guanine? Cyto	sine?
4.	Draw a picture of DNA and label the following para. Phosphate group b. Deoxyribose Sugar c. Hydrogen Bonds d. Nitrogen Bases e. Nucleotide	rts:	
Tarae	et 2: DNA Replication		
1.	What is the purpose of DNA replication?		
2.	What is the name of the proteins (enzymes) involve	ed in DNA replication?	
3.	What does each protein (enzyme) do?		
4.	How does DNA replication incorporate both new I	DNA and old DNA?	

- Target 3: DNA to RNA (Transcription) 1. What are the differences between DNA and RNA? Discuss the nucleotide and structural differences. Where is RNA made? What are the base pairing rules for DNA to RNA? 4. If a strand of DNA reads ATACGCA, what will the mRNA read? Target 4RNA to Protein (Translation) What is the purpose of tRNA? What would happen without it? What is a chain of amino acids called? How many letters code for one amino acid? What is that three letter word called? What is the name of the chart that has all 64 amino acids on it? 5. Where does translation occur, or in what organelle? Can you draw a picture of the process? Target 5Mutations Where do mutations occur? What process can cause mutations? What could be the end result of a mutation? Explain in detail what a point mutation is. Is it harmful to the overall protein, why?
  - Explain in detail what a frameshift mutation is. Is it harmful to the overall protein, why?