

Unit 6: DNA and Protein Synthesis	
Title: Transcription and Translation	
Essential Question:	
What is transcription?	
What are the types of RNA and what do they do?	-mRNA -rRNA -tRNA
How do the steps of DNA replication compare to transcription?	
What is the template stand?	
What is translation?	
What is a codon?	
What is the function of tRNA?	
What is an anticodon?	
What are the steps of translation?	<ol style="list-style-type: none"> 1. mRNA moves through the ribosome 2. tRNA with the complimentary anticodon binds to the mRNA codon 3. Ribosome links together the amino acids and releases the empty tRNA 4. Ribosome moves over 3 bases (Steps 2-4 repeat until entire mRNA sequence has been read) 5. When the ribosome reaches a stop codon, the new protein is released and the ribosome releases the mRNA
How many codons are there?	
Practice:	
DNA Sequence- TAC GGG CTA ACG ATC	
RNA Sequence- _____	
Protein Sequence- _____	

