Name

Date \_\_\_\_



For each of the following sequences, fill in the DNA, the mRNA sequence, the rRNA anticodons, or the amino acid sequences (AA) that have been left blank. If several sequences might work choose any one. USE THE GENETIC CODE DIAGRAM FROM YOUR TEXTBOOK OR LOOK ONE UP ONLINE!

1.	DNA	TAC	T G A	TCG	ACC	ССС	C A T	ΑΑΤΟ	G AAA	ATC
	mRNA									
	tRNA									
	AA									
2.									ACC	
	tRNA									
	AA	MET	ALA	ARG	ARG	GLU	LEU	LEU	TRY	<u>STOP</u>
	DNA mRNA tRNA AA	<u>AUG</u>		GGG	GCA	UAC	CGA		C UUA	
	DNA mRNA tRNA	AUG		GGG	UUU	UUC	AUG		GGG	
	AA									
5.	DNA	TAC				ŀ	ATG			
	mRNA			UGU	GAU					
	tRNA	C U C					U U G A U U			UU
	AA					ALA	PRO			

6. What are the three differences between RNA and DNA?

7. Where is DNA found in the cell? \_\_\_\_\_\_ Where is RNA found in the cell? \_\_\_\_\_\_

8. Name the three types of RNA and what they do.

9. Draw an mRNA strand that is complementary to the DNA strand **AATTGC**. Circle a nucleotide.

10. What are the steps of transcription?