Name:		Date:	Period:	
DNA Standards Base	ed Worksheet – Ch.	12. Pgs. 286-308.		
			Attach additional paper if ne	cessary.
1. What are the th	ree parts of a nucleotic	de? Draw an example of or	ne. (Notes and Pg. 294)	
2. Complete the ta	able representing the D	NA bases. (Notes and Pg. 2	294)	
	4 DNA Bases	With which	n base does it pair?	
3. What is produc	ed from replication? W	 /hen does it happen during	 the cell cycle? (Notes and Pg	s. 297)
	-r		,	,
4. Compare at leas	st three differences bet	ween RNA and DNA. (Not	es and Pg. 300 and 291)	
RNA	I	DNA		
- Controller d		Contract to the contract of th	.21	
5. Complete the cr	nart for the three types	s of RNA: (Notes and Pg. 30	00)	
KINA Type				
Full Name				
Function?				
6. Complete the c	hart for the two stages	s of protein synthesis: (Pgs.	301 and 303 and Notes)	
Stage Name?	Location?	RNA types involved?	What happens?	

DNA Strand	DNA Strand GC		GCA TTA		GCA TO			CG AT		A ACG		G		
mRNA codo	n													
tRNA antico	don													
. Given the fo	ollowin	g mRNA	A codor	ns, ide	entify the	amino a	acid pro	duced fro	om ea	 ach. Use you	ır ger	netic cod	de to	J
complete th		_			•		•			•				
mRNA Codons	Αl	AUG CC		C	CUAC		CCC	GAC	С	GGG	ACA		UAG	
Amino Acids							_							
How do pr	oteins	differ	from e	ach c	ther? (N	otes ar	nd Pg. 3	302)					<u> </u>	
	frameshift. (Pg. 307 and Notes) Gene (Point) Mutation Type?			What happens?							Frameshift?			
Gene (Poi	nt) ivit	Itation	Typer				What n	appens				Fran	nesmi	[: ——
				+										
L. Why does e	each or	gan in y	our bo	 dy pe	rform diff	erent fu	unction:	s even the	ough	the same DI	VA is	present	in eac	h?
Draw a diag	gram of	two st	rands o	f DNA	۱ to assist	in expla	aining y	our answ	er. (I	Notes and Pa	age 3	11-312)		
2. Complete tl	he follo	owing q	uestion	ıs: Paş	ge 317 #1-	-12.								
317 Answer	F	Reason						Answer	Reas	on				
							7.							
							8.							
							9.							
							10.							
							11.							
							12							

7. Given the following base sequence for DNA, identify the complementary base that results on the other side for

mRNA, and tRNA during protein synthesis. (Pgs. 295, 302, and 304 and Notes)

DNA Strand