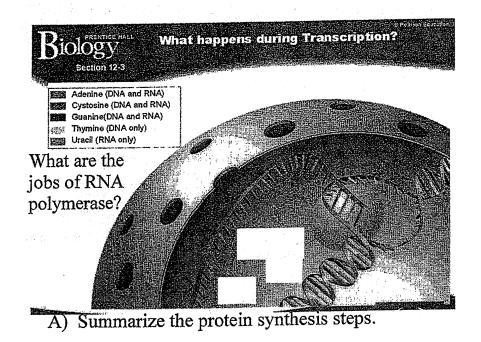
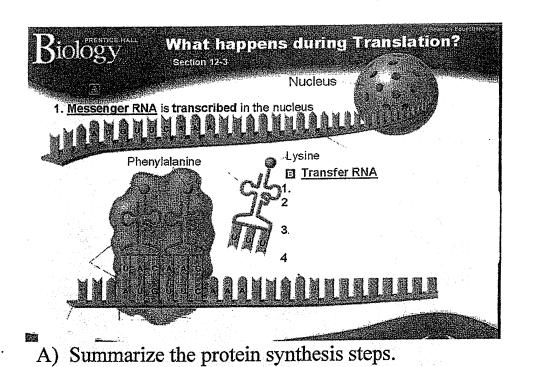


A) Summarize the protein synthesis steps.

amino acid from			U	C	d Base	G	1		9. AUG
the following	[		Phe	Ser	Tyr	Cys	U	1	AUG
mRNA codes:	ŀ	u	Phe	Ser	Tyr	Cys	C		
mile 17 L COGOS.	- 1	۷	Leu	Ser	Stop	Stop	A	l	
			Leu	Ser	Stop	Trp	G		e exemple a
			Leu	Pro	His	Arg	U		Q
		c	Leu	Pro	Ms	Ang	C	to to	9 <b>9</b>
	First Base		Leu	Pro	Gin	Arg	A G	Third Base	ACA
AGU	9		Leu	Pro	Gin	Arg		<b>CD</b>	, · • · · ·
	3	- 1	ile	Thr	Asn	Ser	U	Jir.	
	T	Ă	lle ~	Thr	Aan	Ser	C	F	
	- 1	1	\$e	Thr	Lys	Arg	Ĝ		·
2	H		Met	Thr	Lys	Arg		3	1.
CCC	-	- 1	Val Val	Ala Ala	Asp Asp	Gly Gly	U		UGG
	Į,	G	Val	Ala	Glu	Gly	Ă		UUU
			Val	Ala	Glu	Gly	G		
" 3. <b>』</b> UAA		*	4. GAI	The Manufacture of the Control of th		5. CG	G	The state of the s	6. UUG

B) Use the genetic code to determine the amino acids that match up to mRNA codons.





## Transcripton and Translation Worksheet

Name			
Period:	Date		

For each of the following sequences, fill in the DNA, the mRNA sequence, the tRNA anticodons, or the amino acid sequences that have been left blank. If several sequences might work choose any one.

l.

DNA	TAC	CGC	TCC	GCC	GTC	GAC	AAT	ACC	ACT
mRNA									
AA									

2.

DNA									
mRNA	AUG	ACU	AGC	UGG	GGG	UAU	UAC	UUU	UAG
AA									

3.

DNA									
mRNA	AUG	GUG	GGG	GCA	UAC	CGA	CCC	UUA	UAG
AA									

4.

DNA									
mRNA									
AA	MET	ARG	GLY	PHE	PHE	MET	VAL	GLY	STOP

5.

DNA	TAC					ATG			
mRNA		GAG	UGU	GAU		· .	AAC		UAA
Ā	-				ALA			PRO	

D1 17	4			RI	VA		<del>,</del>
							(
Where is DNA	found in the c	ell?				Where are tRNA an	d rRN
found in the ce	117						
Complete the t	able naming th	e three type	es of RNA and v	what they	do.		
RNA Type			Function				
		-					
Identify the mF	NA bases that	are comple	ementary to the	DNA strai	nd. How mar	ny codons are preser	at in this
	RNA bases that	are comple	ementary to the	DNA strai	nd. How mar	ny codons are preser	at in this
strand?		are comple					t in this
	RNA bases that	are comple	ementary to the		nd. How mar	ny codons are presen	t in this
strand?		are comple					t in this
strand?  DNA  mRNA	AAT		TGC		CGC		it in this
strand?  DNA  mRNA  Complete the t	AAT	ing the two	TGC stages of protei	in synthes	CGC is.		t in this
strand?  DNA  mRNA	AAT		TGC stages of protei	in synthes	CGC		at in this
strand?  DNA  mRNA  Complete the t	AAT	ing the two	TGC stages of protei	in synthes	CGC is.		at in this
strand?  DNA  mRNA  Complete the t	AAT	ing the two	TGC stages of protei	in synthes	CGC is.		at in this
strand?  DNA  mRNA  Complete the t	AAT	ing the two	TGC stages of protei	in synthes	CGC is.		at in thi
strand?  DNA  mRNA  Complete the t	AAT	ing the two	TGC stages of protei	in synthes	CGC is.		at in thi