

Name \_\_\_\_\_

Period \_\_\_\_\_

Biology

Date \_\_\_\_\_

PROTEIN SYNTHESIS: mRNA CODONS

		Second base					
		U	C	A	G		
First base (5' end)	U	UUU ] Phe	UCU ]	UAU ] Tyr	UGU ] Cys	U	
		UUC ]	UCC ] Ser	UAC ]	UGC ]	C	
		UUA ] Leu	UCA ]	UAA Stop	UGA Stop	A	
		UUG ]	UCG ]	UAG Stop	UGG Trp	G	
	C	CUU ]	CCU ]	CAU ] His	CGU ]	U	
		CUC ] Leu	CCC ] Pro	CAC ]	CGC ] Arg	C	
		CUA ]	CCA ]	CAA ] Gln	CGA ]	A	
		CUG ]	CCG ]	CAG ]	CGG ]	G	
	A	AUU ]	ACU ]	AAU ] Asn	AGU ] Ser	U	
		AUC ] Ile	ACC ] Thr	AAC ]	AGC ]	C	
		AUA ]	ACA ]	AAA ] Lys	AGA ] Arg	A	
		AUG ] Met or start	ACG ]	AAG ]	AGG ]	G	
	G	GUU ]	GCU ]	GAU ] Asp	GGU ]	U	
		GUC ] Val	GCC ] Ala	GAC ]	GGC ] Gly	C	
		GUA ]	GCA ]	GAA ] Glu	GGA ]	A	
		GUG ]	GCG ]	GAG ]	GGG ]	G	

**PROTEIN SYNTHESIS: AMINO ACID ABBREVIATIONS**

A	Alanine	ALA
C	Cysteine	CYS
D	Aspartic Acid	ASP
E	Glutamic Acid	GLU
F	Phenylalanine	PHE
G	Glycine	GLY
H	Histidine	HIS
I	Isoleucine	ILE
K	Lysine	LYS
L	Leucine	LEU
M	Methionine	MET
N	Asparagine	ASN
P	Proline	PRO
Q	Glutamine	GLN
R	Arginine	ARG
S	Serine	SER
T	Threonine	THR
V	Valine	VAL
W	Tryptophan	TRP
Y	Tyrosine	TYR