

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