Journal Reflection

- What are the consequences of a mistake happening during DNA replication?
- Students hand in completed replication activity

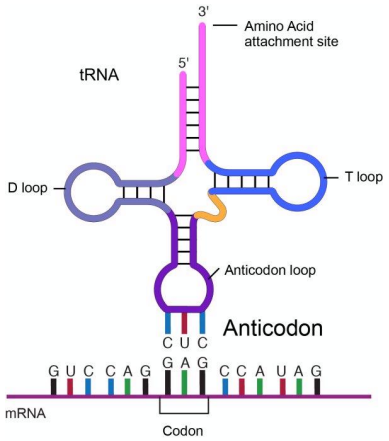
Learning Intentions

- I can explain how cells make proteins.
- I understand that proteins carry out all the activities that make cells alive.
- I can make prediction about how mutations in the DNA can impact proteins.

V.O.D

- https://www.youtube.com/watch?v=gG7uCskUOrA&t=39s

RNA bases are grouped into 3 letters called codons



The genetic code includes 64 codons – most codons code for a specific amino acid

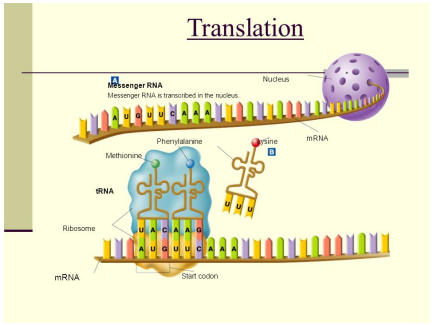
Genetic Code- Table

1st letter	Second Letter: U		Second Letter: C		Second Letter: A		Second Letter: G		3rd letter
U	UUU	Phe	UCU	Ser	UAU	Tyr	UGU	Cys	U
	UUC		UCC		UAC		UGC		C
	UUA	Leu	UCA		UAA	Stop	UGA	Stop	A
	UUG		UCG		UAG	Stop	UGG	Trp	G
C	CUU	Leu	CCU	Pro	CAU	His	CGU	Arg	U
	CUC		CCC		CAC		CGC		C
	CUA		CCA		CAA	Gln	CGA		A
	CUG		CCG		CAG		CGG		G
A	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	U
	AUC		ACC		AAC		AGC		C
	AUA		ACA		AAA	Lys	AGA	Arg	A
	AUG	Met	ACG		AAG		AGG		G
G	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	U
	GUC		GCC		GAC		GGC		C
	GUA		GCA		GAA	Glu	GGA		A
	GUG		GCG		GAG		GGG		G

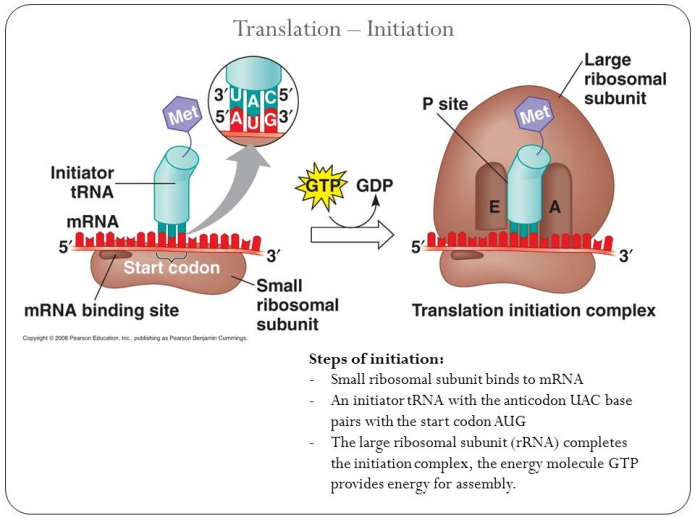
Biochemistry For Medics 6

The process of translation

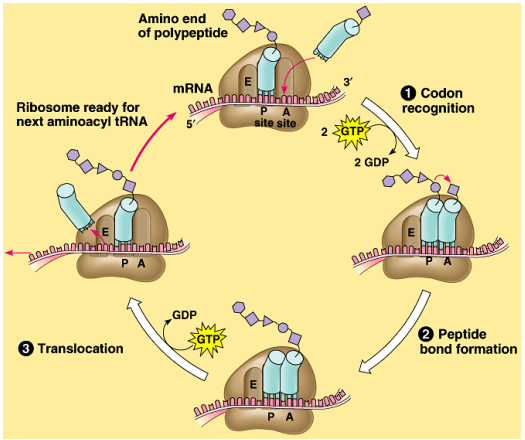
Essential Question: How is the information in the mature RNA stand translated into a protein?



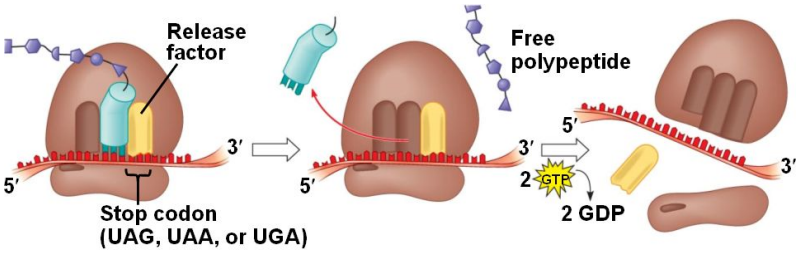
The process of translation

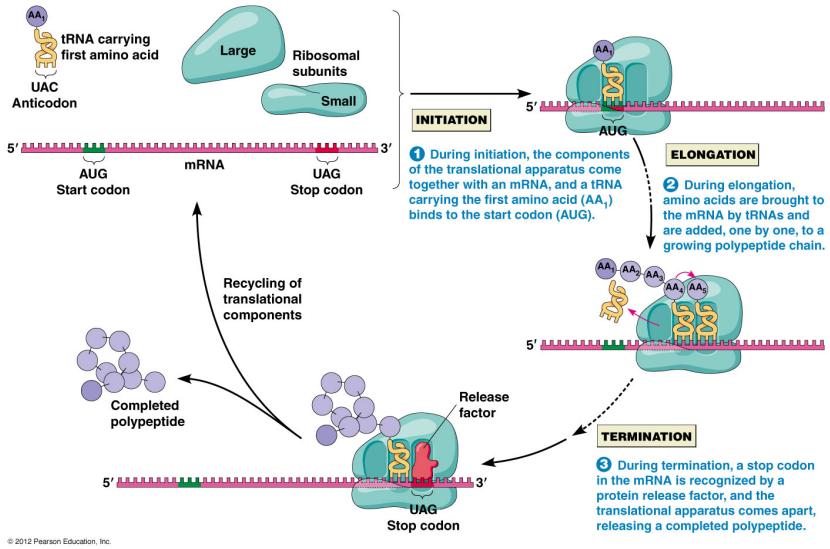


The process of translation: Step 2 Elongation



The process of translation: Step 3 Termination





Review of Transcription and Translation

https://www.youtube.com/watch?v=2BwWavExcFI&t=5s

RNA	WORD	RNA	WORD
UUU	the	CUG	right
UUC	run	AUU	sit
UUG	on	AUC	true
CUU	are	AUA	greatest
CUC	if	AUG	meaning
CUA	over	GUU	just
GUG	do	UGU	expect
UAU	track	UGC	life
UAG	you	UGA	under
CAU	faults	AGU	of
CAA	even	GGU	be
CAG	shade	GGA	not
GGG	to	GCC	do
AAA	is	GGC	get
CCC	none	GCA	there
CCU	plant	AAG	trees
CCA	conscious	AAC	you'll
CCG	sit	AAU	whose

Take Away Task

- Complete the Venn diagram comparing the 3 stages of transcription and translation

- Monday, December 18th Mutations
- Wednesday, December 20th Test
- Friday, December 22nd Biotechnology