

Protein Synthesis Test Directions:

1. Fill in the **complementary DNA triplet** using DNA base pairing rules
2. Transcribe the **BOTTOM DNA strand (Use #1)** and Fill in the **mRNA codon (#2)**
3. Use the **Codon Chart & Write the 3 letter abbreviated Amino acid (#4)** and the correct **tRNA anticodon (#3)**

Codons Found in Messenger RNA

Second Base

		U	C	A	G		
<i>First Base</i>	U	Phe Phe Leu Leu	Ser Ser Ser Ser	Tyr Tyr Stop Stop	Cys Cys Stop Trp	<i>Third Base</i>	U C A G
	C	Leu Leu Leu Leu	Pro Pro Pro Pro	His His Gln Gln	Arg Arg Arg Arg		U C A G
	A	Ile Ile Ile Met	Thr Thr Thr Thr	Asn Asn Lys Lys	Ser Ser Arg Arg		U C A G
	G	Val Val Val Val	Ala Ala Ala Ala	Asp Asp Glu Glu	Gly Gly Gly Gly		U C A G

CFU Protein Synthesis

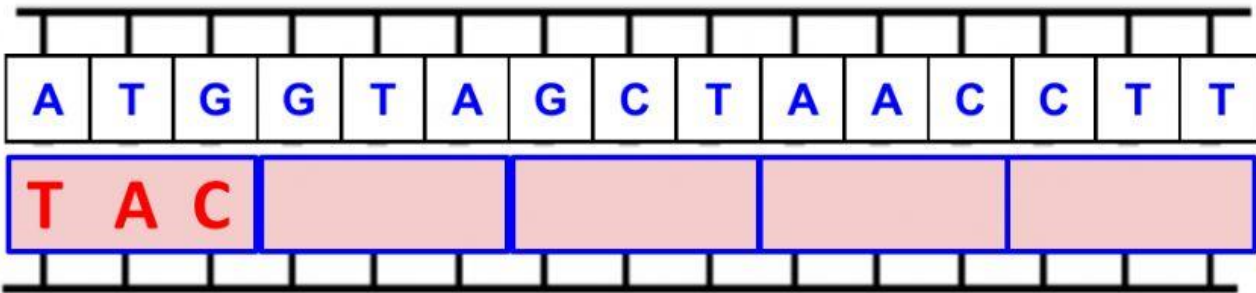
Carefully Read Directions

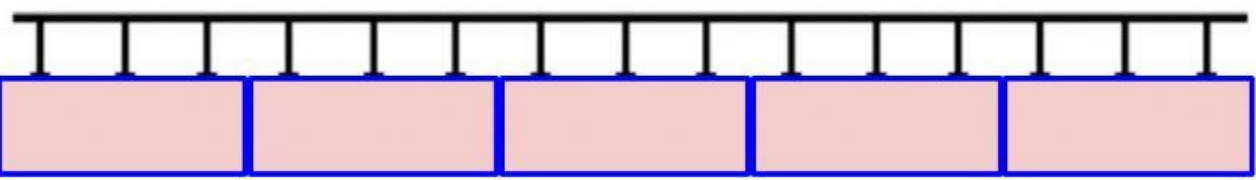
Complete #1, #2, #3, and #4

Answer Questions on next slide

Base Pairing Rules

Replication	Transcription	Step in Translation	
DNA	DNA	mRNA	tRNA
A	T	A	U
C	G	C	G
G	C	G	C
T	A	U	A

- 

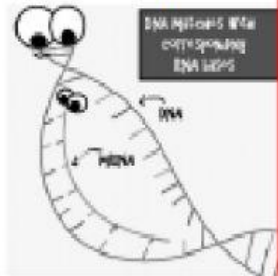
DNA
- 

mRNA
- 

tRNA
- 

Amino Acids

Answer Questions

Name of process	Where is this process located?	Is DNA directly involved in this process?	Which types of RNA are involved? mRNA, rRNA, tRNA	End result and purpose.
Transcription 				
Translation 		No, as DNA remains in the nucleus and this process is not in the nucleus.		