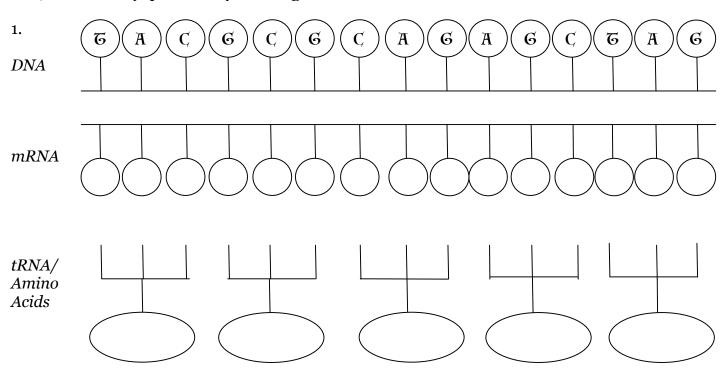
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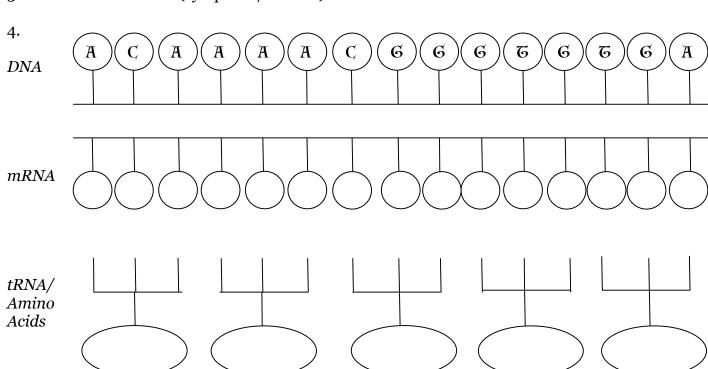
Protein Synthesis

Directions:

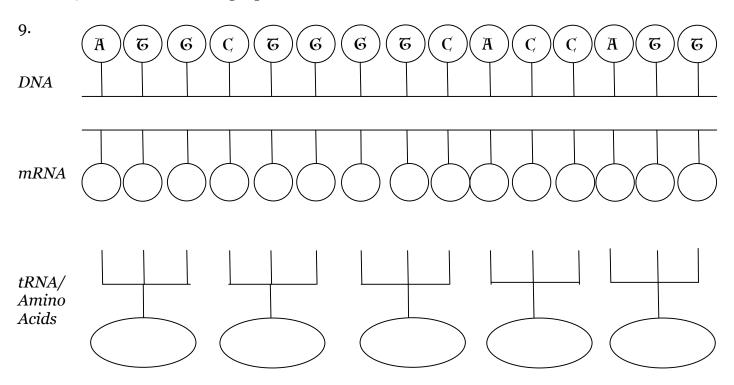
- 1. Use the DNA code to create your mRNA code.
- 2. Use the mRNA code to create your tRNA code.
- 3. Use the mRNA code and the Genetic Code to determine your amino acids.
- 4. Answer any questions by **circling** the correct answer.



- 2. mRNA is made during (transcription/translation).
- 3. mRNA is made in the (cytoplasm/nucleus).



- 5. DNA is located in the (nucleus/cytoplasm)
- 6. (mRNA/rRNA) is used to carry the genetic code from DNA to the ribosomes.
- 7. (DNA/RNA) uses uracil instead of thymine.
- 8. (RNA/amino) acids make up a protein.



		SECOND NU CLEOTIDE									
			U		С	Α		G			
	U	UUU	Phenylalanine (Phe)	UCU	Serine (Ser)	UAU	Tyrosine	UGU	Cysteine	U	골보
		UUC		UCC		UAC	(Tyr)	UGC	(Cys)	c ∄	THIRD
		UUA	Leudne (Leu)	UCA		UAA	STOP	UGA	STOP	Α	THIRD
		UUG		UCG		UAG		UGG	Tryptophen (Trp)	G	
NUCLEOTIDE	С	CUU	Leudne (Leu)	CCU	Proline (Pro)	CAU	Histidine	CGU	Arginine (Arg)	U	THIRD
		CUC		CCC		CAC	(His)	CGC		C	
		CUA		CCA		CAA	Gluta mine	CGA		Α	
		CUG		CCG		CAG	(Gin)	CGG		G	
FIRST NUC	Α	A AUU I	Isoleucine (IIe)	ACU	Threonine (Thr)	AAU	Asparagine	AGU	Serine (Ser)	U	THIRD
		AUC		ACC		AAC	(Asn)	AGC		C	
		AUA		ACA		AAA	Lysine (Lys)	AGA	Arginine (Arg)	Α	
		AUG	Methionine (Met) START	ACG		AAG		AGG		G	_
	G	GUU	Valine (Val.)	GCU	Alanine (Ala)	GAU	Aspartic Acid (Asp) Gluta mic Acid (Glu)	GGU	Glycine (Gly)	U	THIRD
		GUC	GC	GCC		GAC		GGC		C	
		GUA		GCA		GAA		GGA		Α	
		GUG		GCG		GAG		GGG		G	

- 10. Transcription takes place in the (nucleus/cytoplasm).
- 11. tRNA is used in (translation/transcription).
- 12. tRNA uses (anticodons/codons) to match to the mRNA.
- 13. Proteins are made at the (nucleus/ribosome).
- 14. (tRNA/mRNA) brings amino acids to the ribosome.
- 15. tRNA is found in the (nucleus/cytoplasm).
- 16. (Translation/Transcription) converts mRNA into a protein.
- 17. Translation takes place in the (cytoplasm/nucleus).
- 18. (DNA/RNA) can leave the nucleus.
- 19. (Translation/Transcription) converts DNA into mRNA.

Image of protein synthesis

