TNT Recap	0
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NAME_____

1. Below is the DNA sequence for human insulin:

DNA		TAG		GTT		ACG		
mRNA			GUG				ACU	
tRNA	CCA				ACA			AGG
Amino Acid								

2. Below is the DNA sequence for cow insulin:

DNA	CCG	and a second		GTT	ACA		CGA	
mRNA		AUC						UCC
tRNA			CAU			ACG		
Amino Acid								

-1	U	<u>C</u>			\		3	
u	Phe	ncc ncn_		UAU	Tyr	UGU UGC	Cys	C
•	UUÂ. Leu	UCA	Ser	UAA	Stop	UGA	Stop	А
	uug	UCG_		UAG	Stop	UGG	Тгр	G
	cuu	·ccu		CAU		CGU		u
С	CUC Leu	ccc	D	CAC	His	CGC		С
	CUA	CCA	Pro	CAA	Gin	CGA	Arg	A
	CUG	cca	1	CAG	1	cee	1	G
	AUUT	ACU	1	AAU	1	AGU		u
A	AUC lie	ACC	Thr	AAC	Lys	AGC	Ser	С
	AUA	ACA	1111	AAA		AGA	Arg	Α
	AUG Met or	ACG_]	AAG		AGG]	G
	GUU	GCU		GAU	4	GGU	7	U
G	GUC Val	gcc	Ala	GAC	Asp	GGC	Civi	c
	GUA VAI	GCA	1000	GAA	Glu	GGA	Gly	Δ
	GUG	GCG		GAG		GGG	_ ։	G

below are ti	ne steps of transcription and translation. Put them in order from start to finish, numbering 1-8.
	tRNA taxi cabs visit the ribosome and match their anticodon "password" with mRNA codons. When they find a match, they drop off the correct amino acid passenger.
	The ribosome links all of the amino acid passengers together until a stop signal is reached.
	The DNA gene code is read and a complementary mRNA copy of the instructions is made.
	The completed mRNA strand breaks away from the DNA and leaves the nucleus. The DNA
	strand "re-zips" and "re-winds".
	The ribosome reads each mRNA codon and calls for the correct amino acid to be delivered.
	The tRNA taxi cab, leaves to find another amino acid passenger.
	Helicase enzymes unwind and unzip the DNA strands.
	The mRNA strand arrives at the ribosome and awaits the arrival of tRNA.

