Central Dogma Web	Quest	Name:		
_		Period:	Date:	
	uestions as you travel to the webpages belience.weebly.com \rightarrow Biology \rightarrow DNA			
From Gene to Protei	n: Transcription			
-	by clicking "Next Concept" and readin ou go through the information.	g each page. Answer the	e questions and fill in	
1. What two-step pro	ocess does the central dogma describe?	an	d	
2. Transcription is th	e synthesis of	of a segment of I	ONA.	
3. In a eukaryotic cel	In a eukaryotic cell, transcription occurs in the <u>nucleus</u> , and translation occurs in the <u></u>			
4. Write the function	s of the following forms of RNA:			
mRNA:				
tRNA:				
rRNA:				
5. List one way that	DNA and RNA are different.			
the blanks below as ye	by clicking "Next Concept" and readin ou go through the information.			
	central dogma, what three forms does in $_ \rightarrow _$	normation in genes take		
2. What is the basic l	building block of a protein?			
	acids exist in humans?			
4. Name one amino a	acid			
5. What type of bond	l holds amino acids together?			
6. How many nucleo	tides code for each amino acid?			
7. What is the three l	etter mRNA base code (codon) for the	"start" codon?		
8. List one "stop" co	don			
9. In a eukaryotic cel	ll, where is mRNA made?			
10. In a eukaryotic cel	ll, where is mRNA translated?			
11. What form of RNA	A brings amino acids to the ribosomes of	luring translation?		
12. What happens who	en the ribosome reads a "stop" codon de	uring translation?		

13. What is a protein?_____

RNA is an intermediary between DNA and protein Concept, Animation (only through Watson's narration), and Problem. 1. What type of RNA transcribes DNA? _____ 2. Who narrates the animation? _____ 3. What kind of sugar is used in RNA? ______ 4. What nitrogenous base replaces thymine in RNA? _____ 5. What base does the base you named in #4 bond with? _____ 6. DNA is double-stranded; how would you describe RNA? _____ 7. What enzyme makes RNA from a DNA template? _____ 8. True or False: Any changes in the DNA sequence will be reflected in the mRNA sequence. Scitable: Ribosomes, Transcription, and Translation (Begin at "What Are the Initial Steps in **Accessing Genetic Information?"**) 1. What is the first step in decoding a cell's genetic information? 2. List one way that RNA is different from DNA. 3. What is the function of mRNA? 4. What is the function of rRNA? _____ 5. What is the function of tRNA? _____ 6. What process begins after the transcription of DNA to mRNA is complete? 7. What is the product of the process named in #6? 8. What amino acid does the codon AGC code for? _____ 9. True or False: Protein chains can be hundreds of amino acids in length.

Learn.Genetics Transcribe & Translate A Gene

For the RNA strand, type in the complementary base as the cursor flashes above each letter. Follow the instructions to find the "start" codon. Then, select the correct amino acid for each codon.

1.	. What are the six amino acids, in order, that the mRNA strand codes for?	