Dinosaur Project				
America. He bolooked like. He	elieves it is from a rare species extracts DNA from the egg an	to say he found a strange egg ne of dinosaur, but does not know od figures out the sequence of base out what this dinosaur looked li	what the dinosaur would have ses, but does not know what to	
3. Where are pr	A found in the cell? NA contain the instructions to oteins made in the cell? Instructions in DNA get from the cell.	make?he nucleus to the ribosome? (List	_	
5. If the origina	l DNA strand is ATT-CGA-CO	CG, what will be the mRNA stran	id?	
7. After mRNA 8. What do tRN 9. What are the 10. What does	gets to the ribosome,[A molecules transfer to the ml three-nucleotide sequences on this chain of amino acids become the contract of the property of of t	a tRNA molecule called?	mplementary mRNA codons.	
 Directions: For each trait being examined in the mystery dinosaur creature, figure out the mRNA codons by transcribing your DNA sequence into mRNA. (Fill in column #1, but remember to separate the mRNA strand into sets of codons). Use the codon chart to figure out the amino acid protein sequence from the mRNA. Abbreviate the amino acid name by just writing the first three letters. (Fill in column #2). Look on the genetic traits sheet to determine the genetic trait the amino acid protein sequence codes for. (Fill in column #3). Note: All amino acid protein sequences begin with the start codon (AUG) which codes for Methionine and also end in one of the three STOP codons (UGA, UAG, or UAA). These start and stop codons have been eliminated from your sequences because it is understood that they are part of the amino acid protein sequence. Creature #				
Gene Eva Color	mRNA strand	Amino Acid Sequence	Expressed Trait	
Eye Color				

Name:___

_____ Period_____ Date_____

Gene	mRNA strand	Amino Acid Sequence	Expressed Trait
Eye Color			
Skin Texture			
Skin Colors			
Horns			
Teeth			
Claws			

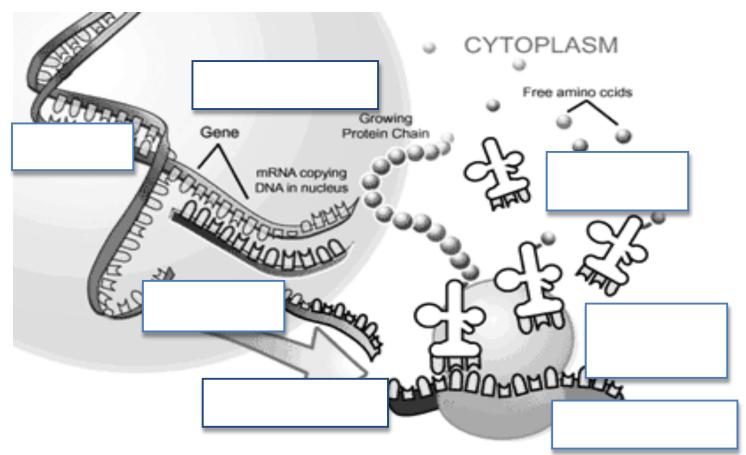
*For extra credit, you can draw your dinosaur at home.

Translation Practice

Need to Knows:

4	\ \	at a large state		المستحدث لما		والمراجع والمراجع	
1	ı vvnat	uoes it	mean i	o transi	iate s	somethii	י שוו

2) Where does mRNA go after it leaves the go there?	he nucleus? Why does it
3) What are the monomers of proteins?	Is a codon found on an mRNA strand or a tRNA strand? (Circle One)
5) Write the complementary anticodon:	
6) What does tRNA bring to the ribosom	e?
Summing It Up: Fill in the boxes using the	nese words: DNA, mRNA, Ribosome, Nucleus, tRNA, Protein



Synthesis, Codon, Anticodon

7) Write the complementary anticodons below the following codons:

AGC UAA ACU AGU

8) Use the codon chart to write the amino acids (just the three-letter abbreviation) the following codons code for:

UAC:	CCA:	
GAU:	CAU:	
CGC:	UUU:	

- 9) List all of the codons that code for Valine (Val):
- 10) List the "STOP" codons. These tell the ribosome to stop making the protein.
- 11) List the codon that codes for Methionine. This is the "START" codon that tells the ribosome to start making the protein.
- 12) Where in the cell does this process of translation take place?