NAME	
IALIMIC	

## REPLICATION, TRANSCRIPTION, & TRANSLATION REVIEW

REP	LIC	:A7	ΓIC	N

Use the DNA code provided and fill in the complementary DNA strand.

Which nitrogen base CAN'T you use during replication?

ATTCGATGC

TACGGATCG

CAGTGACTT

## TRANSCRIPTION

Use the DNA code provided to copy an m-RNA message.

Which nitrogen base CAN'T you use during transcription?

ACTGGATAC

ACGGATCGT

TGACAGCTA

## TRANSLATION:

USE the DECODING WHEEL to DETERMINE the AMINO ACID that corresponds to the m-RNA CODE GIVEN

Which amino acid has ONLY ONE codon that codes for it?

mRNA CODE	AMINO ACID
AAA	
GCG	
GAU	·
CAA	
CAC	
UUU	

Which two mRNA codes correspond to histidine?

How many different mRNA codes correspond to Threonine?

\$6.00 P	Cultural Control	Phenyt-	· /
Alanha A			No Stop
Valine A. L	G	U	Cysteine Stop St Tryptophan
Arginine A. (	AA	C	Leucine
Lysine Lysine	$\langle \mathcal{C}/\mathcal{U} \rangle$	G A	Proline
ASSESTABLE VINE	Mattheway Solentine	Cultannine A Argirine	

ino acid sequen	ce:	•					4
		Mary Commence					
		<u> </u>			<del></del>		
			٠	-			
k at the m-R	NA message l	helow:			•		* .
		f the t-RNA/	amino	acid com	nlexes to	show the	e correc
		ach as this me			proxide it		
,							
				phenylalanine	leucine	lysine	methionine
		•					$\bigcap$
CALAR	LANGO	· Per AI Kr. AI A		NO	NE		
A U G U	UCAAA	CUG					
							THE TENT
mRNA	···· : · · · · · · · · · · · · · · · ·			AAG	G A C	บเมเม	U A C
				JUV	VUM	and had had	NUN
			•	<del></del>			·
	444710 4675	CEOUENCE I		UE DOOT		ATE 14/01 (I	N. DF
HAT IS THE A DDUCED FROM		· ·	FUR II	HE PROT	ETIN I HI	AT WOOL	ים פר
SOUCED I KOI	M THEO MED.	JAOL:					•
	_		-			_	
				*.			÷
L IN THE IN	<u>IFORMATION</u>	BELOW with	the c	orrect se	quence		
<b>~ 1 .</b>			•				
DNA code	TTACGO	. 6 C A		DNA cod	e		
NA message			m D	NA macr	G	GCUU	466
INA message			IIIN	INA MESS	suge 0		A G C A
		•	_		,		
DNA code	ACACT	CGGC	0	NA code	:		
			_				
		-					

Tell the amino acid sequence for the following mRNA message:

What if a mutation caused a change in the code so the message read UGG instead of UGC? How would this affect the protein produced?  What if a mutation caused a change in the code so the message read GGA instead of GGC? How would this affect the protein produced?						
					The state of the s	MATCH THE PARTS IN THE DIAGRAM WITH THE CORRECT LABEL.
	RIBOSOME					
I A MARION PROGRAMMENT OF THE PR	NUCLEUS					
Asparagine D Methionine G	MESSENGER RNA					
	ANTICODON					
	AMINO ACID					
	CODON					
<b>F</b> .	TRANSFER RNA					
What will happen to D after it drops off its a	amino acid?					

-