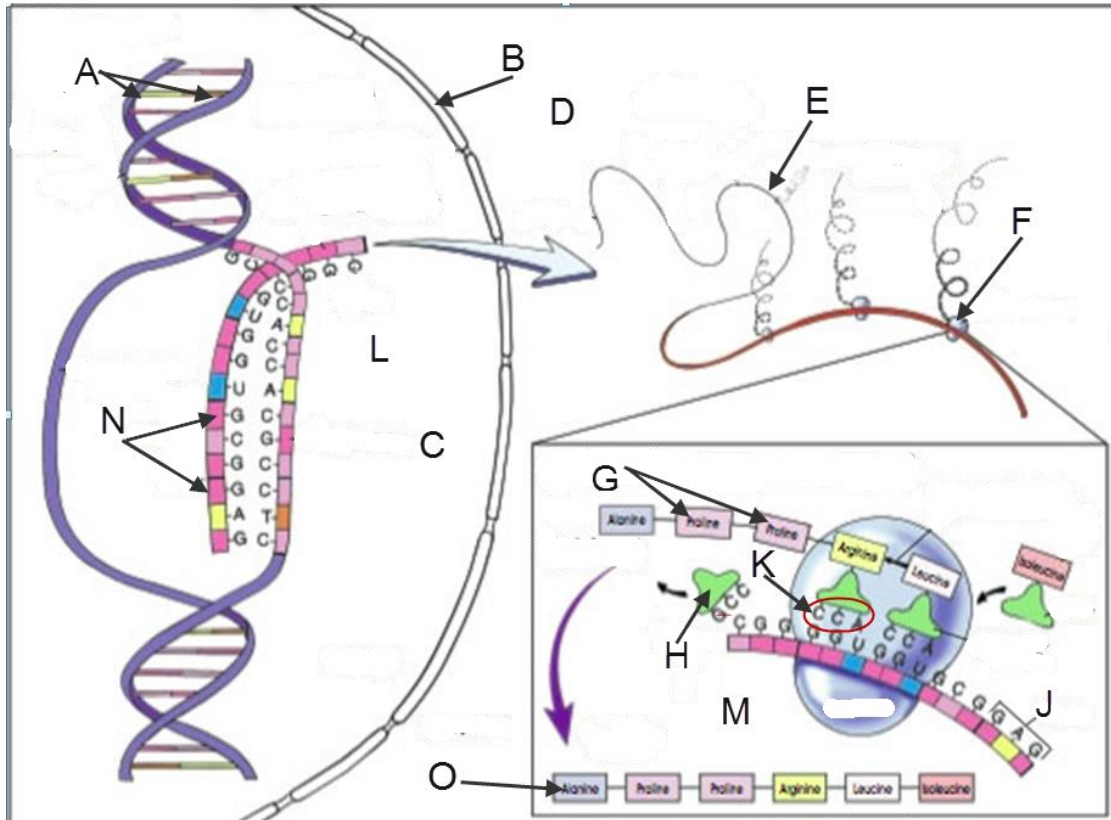


Name: _____ Period: _____

Protein Synthesis Worksheet

Use the diagram below to identify the location and structures associated with cellular protein synthesis.



Complete the table below with the information above

A		H	
B		J	(term for these 3 bases)
C	(the location)	K	term for these 3 bases)
D	(the location)	L	(name the process)
E		M	(name the process)
F		N	
G		O	

Name: _____ Period: _____

Use the table on the right to construct the appropriate 3 base sequences associated with the following: A DNA molecule has unraveled to expose the following bases:

CGT,GTT,CTT,GAT,TTT,AAA,GGC,
AGC,ATG,CAA, ATT

Fill-in the table below completely to identify the list of 10 amino acids formed.

The Genetic Code (mRNA)

First Base in Code Word	A	Lysine Lysine Asparagine Asparagine	Arginine Arginine Serine Serine	Isoleucine Methionine Isoleucine Isoleucine	Threonine Threonine Threonine Threonine	A G U C
	G	Glutamic acid Glutamic acid Aspartic acid Aspartic acid	Glycine Glycine Glycine Glycine	Valine Valine Valine Valine	Alanine Alanine Alanine Alanine	A G U C
	U	"Stop" codon "Stop" codon Tyrosine Tyrosine	"Stop" codon Tryptophan Cysteine Cysteine	Leucine Leucine Phenylalanine Phenylalanine	Serine Serine Serine Serine	A G U C
	C	Glutamine Glutamine Histidine Histidine	Arginine Arginine Arginine Arginine	Leucine Leucine Leucine Leucine	Proline Proline Proline Proline	A G U C
		A	G	U	C	
		Second Base in Code Word				

#	DNA Triplet	mRNA Codon	tRNA anticodon	Amino Acid
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

1. _____ What is this string of amino acids called?
2. What is special about the DNA triplets ATT, ATC and ACT?
