

Transcription and Translation Practice

Name: _____

Define each of the following terms and give their function.

1. mRNA: (**)
2. tRNA: (**)
3. rRNA: (**)
4. codon: (**)
5. anticodon: (**)
6. transcription: (**)
7. translation: (**)
8. start codon: (**)
9. stop codon: (**)
10. nucleotide: (**)

Where are the following located or where does each take place

1. mRNA: (**)
2. tRNA: (**)
3. rRNA: (**)
4. codon: (**)
5. anticodon: (**)
6. transcription: (**)
7. translation: (**)
8. start codon: (**)
9. stop codon: (**)
10. nucleotide: (**)

Complete the table based on the "codon chart."

A	B	C	D
DNA codon	mRNA codon	tRNA anticodon	Amino Acid
AAA	UUU	AAA	Phenylalanine
TTA	*	*	*
*	*	*	Methionine (start codon)
*	CCG	*	*
*	*	CCU	*
GTC	*	*	*
*	GUA	*	*
*	*	AUA	*
*	*	*	Tryptophan
TGT	*	*	*
*	UAG	*	*
*	*	*	Valine

Answer the following based on the table above:

Moving from column A to column B would be equivalent to what process? (**)

Moving from column B to column D would be equivalent to what process? (**)