

**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? (\*\*)