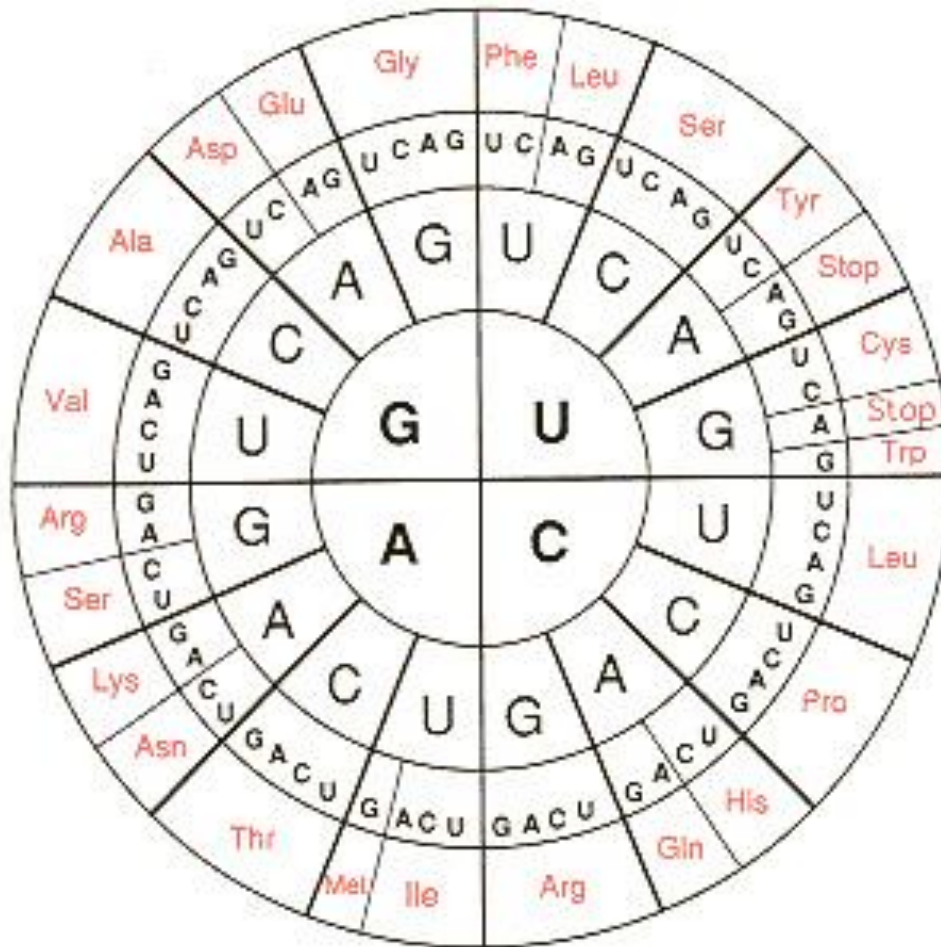


Complete the following chart using one of the genetic code charts on page 2:

- Complete the mRNA codon column by writing the correct mRNA codon for each DNA base sequence given
- Identify the process responsible for part A. by writing its name under the process column
- Write the correct tRNA anticodon that binds to each mRNA codon.
- Identify the process responsible for part C. by writing its name under the second process column
- Using your genetic code chart, identify the name of the correct amino acid that is coded by each mRNA base sequence

DNA Base Sequence	Process: _____	mRNA codon	Process: _____	tRNA codon	Amino Acid:
CCC	→		→		
TAT	→		→		
GAG	→		→		
GCG	→		→		
AAC	→		→		
TTG	→		→		
CTC	→		→		
GGA	→		→		
TTT	→		→		
CGC	→		→		
AGG	→		→		
CCA	→		→		
TGG	→		→		
GCT	→		→		
TCT	→		→		
ACT	→		→		
GCT	→		→		
TTG	→		→		
CAG	→		→		
TAG	→		→		



Second base

		Second base					
		U	C	A	G		
First base	U	UUU } PHE UUC } UUA } LEU UUG }	UCU } UCC } SER UCA } UCG }	UAU } TYR UAC } UAA } STOP UAG }	UGU } CYS UGC } UGA } STOP UGG } TRP	U C A G	
	C	CUU } CUC } LEU CUA } CUG }	CCU } CCC } PRO CCA } CCG }	CAU } HIS CAC } CAA } GLN CAG }	CGU } CGC } ARG CGA } CGG }	U C A G	
	A	AUU } AUC } ILE AUA } AUG } MET or START	ACU } ACC } THR ACA } ACG }	AAU } ASN AAC } AAA } LYS AAG }	AGU } SER AGC } AGA } ARG AGG }	U C A G	
	G	GUU } GUC } VAL GUA } GUG }	GCU } GCC } ALA GCA } GCG }	GAU } ASP GAC } GAA } GLU GAG }	GGU } GGC } GLY GGA } GGG }	U C A G	