Genetic Code Chart

FIRST LETTER	SECOND LETTER: U	SECOND LETTER: C	SECOND LETTER: A	SECOND LETTER: G	THIRD LETTER
U	UUU phenylalanine **PHE**	UCU serine **SER**	UAU tyrosine **TYR**	UGU cysteine **CYS**	U
	UUC phenylalanine **PHE**	UCC serine **SER**	UAC tyrosine **TYR**	UGC cysteine **CYS**	C
	UUA leucine **LEU**	UCA serine **SER**	UAA stop	UGA stop	A
	UUG leucine **LEU**	UCG serine **SER**	UAG stop	UGG tryptophan **TRP**	G
C	CUU leucine **LEU**	CCU proline **PRO**	CAU histidine **HIS**	CGU arginine **ARG**	U
	CUC leucine **LEU**	CCC proline **PRO**	CAC histidine **HIS**	CGC arginine **ARG**	C
	CUA leucine **LEU**	CCA proline **PRO**	CAA glutamine **GLN**	CGA arginine **ARG**	A
	CUG leucine **LEU**	CCG proline **PRO**	CAG glutamine **GLN**	CGG arginine **ARG**	G
A	AUU isoleucine **ILE**	ACU threonine **THR**	AAU asparagine **ASN**	AGU serine **SER**	U
	AUC isoleucine **ILE**	ACC threonine **THR**	AAC asparagine **ASN**	AGC serine **SER**	C
	AUA isoleucine **ILE**	ACA threonine **THR**	AAA lysine **LYS**	AGA arginine **ARG**	A
	AUG (START) methionine **MET**	ACG threonine **THR**	AAG lysine **LYS**	AGG arginine **ARG**	G
G	GUU valine **VAL**	GCU alanine **ALA**	GAU aspartic acid **ASP**	GGU glycine **GLY**	U
	GUC valine **VAL**	GCC alanine **ALA**	GAC aspartic acid **ASP**	GGC glycine **GLY**	C
	GUA valine **VAL**	GCA alanine **ALA**	GAA glutamic acid **GLU**	GGA glycine **GLY**	A
	GUG valine **VAL**	GCG alanine **ALA**	GAG glutamic acid **GLU**	GGG glycine **GLY**	G

Use this table to find out what amino acid each codon represents. Locate the first letter of the codon on the left edge of the table to identify a block, then the second letter of the codon across the top to identify the column. Locate the third letter of the codon on the right edge of the table to identify the amino acid. For example, the codon 'CAU' codes for histidine (HIS).