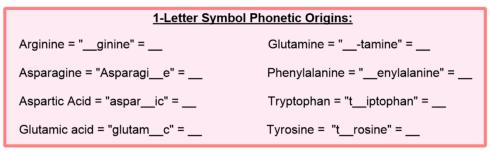
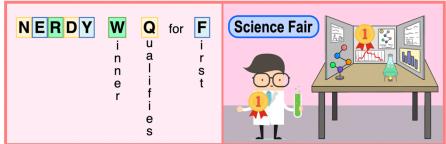
CONCEPT: AMINO ACID ONE LETTER CODE

Phonetic 1-Letter Amino Acid Codes

●8 out of 20 of the one-letter abbreviations are _____ in origin.

EXAMPLE:





PRACTICE: Which of the following amino acid 1-letter symbols is of phonetic origin?

- a) E.
- b) K.
- c) T.
- d) C.

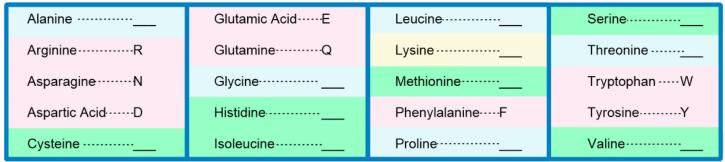
Other 1-Letter Codes

- ●For amino acids with ______ 1st letters, their one-letter-symbol is their 1st letter.
- ●Some amino acid 1st letters are not unique but are still used because they are more _____.

 □ For example, overall leucine is more common than lysine in proteins, so leucine's symbol = ___.
- •Only a few letters remained in the alphabet, so "____" was chosen for Lysine since its closest to L in the alphabet.

EXAMPLE: Fill-in the Amino Acid 1-letter Symbols.

Amino Acid 1-Letter-Symbols



PRACTICE: Which 1-letter-code is unique in that it is neither the first letter of the amino acid nor phonetic in origin?

- a) I.
- b) L.
- c) K.
- d) G.
- e) T.

CONCEPT: AMINO ACID ONE LETTER CODE

PRACTICE: Convert the follow	ving amino acids into their 1-le	tter codes: Glycine, Isoleucine, V	aline, Tryptophan, Proline.
a) G, I, V, T, F	c) G, L, V, W, P.		
·	P. d) G, I, V, W, P.		
~, -, ., . , . ,	٠, ٠, ٠, ٠, ٠, ٠		
PRACTICE: Complete the am	ing acid abbreviation chart belo	ow from memory	
PRACTICE: Complete the amino acid abbreviation chart below from memory.			
Amino Acid Abbreviations			
Alanine	Glutamic Acid···	Leucine	Serine
Arginine	Glutamine······	Lysine	Threonine ······
Asparagine·····	Glycine ·····	Methionine	Tryptophan·····
Aspartic Acid···	Histidine	Phenylalanine	Tyrosine
		Proline	Valine
Cysteine	Isoleucine	Proline	valine
PRACTICE: Convert the follow		into 1-letter codes to reveal the s	sentence.
	lle-Leu-lle-Lys-Glu-Cys-Ala-,		
PRACTICE: Match the amino	acid with the appropriate 1-lett	er-code.	
Tyrosine			
Glutamine			
Glutamic Acid			
Proline Tryptophan _	4. Y 5. Q		
Phenylalanine			
,			