Amino Acids and Proteins In Our Foods

The four main nutrients found in foods are _____, _____ _____, _____, and _____.

List 3 functions proteins are involved in:

1) _____.
2) _____.
3) _____.

Proteins are built up of smaller units called _____ _____.

The sequence of the amino acids determines the _____ of the protein.

Sources of amino acids/proteins include: (circle the correct choices)

fruits vegetables nuts fish
eggs butter candy protein bars
rice water soda peanut butter

What can happen if enough amino acids/proteins are not consumed?

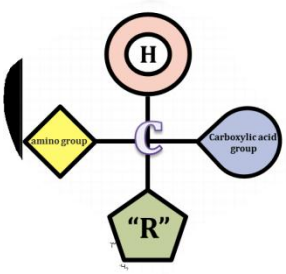
1) _____.
2) _____.
3) _____.
4) _____.
5) _____.

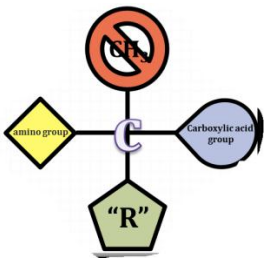
Every amino acid contains an _____ group, or NH_2, a _____ _____ group, or CO_2H, and a hydrogen.

The amino acids differ in their "R" groups or _____ _____.

The unnatural amino acid I work with substitutes a _____ group for the hydrogen atom.

Identify the natural amino acid. Identify the unnatural amino acid.





The test we are using in lab is called the **Buiret test.** In this test, foods with proteins turn the solution _____. Foods without proteins turn the solution color _____.

We will be using a 2M solution of sodium Hydroxide (NaOH). How would you prepare this solution?

What are the safety hazards in this lab?