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 NH₂, a ____________ group, or CO₂H, 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?