Jesse Haymes

Proteins

- Contain C. H. O. N
- Amino Acids differ by their R group attached to the central carbon, the "variable group", there are 20 different R group.
- Monomer: Amino Acids
- The resulting covalent bond between two amino acids is called a peptide bond.
- A dipeptide is 2 or more amino acids bonded together and a polypeptide is a chain of amino acids joined by peptide bonds.
- Polypeptide, 3 or more

R Groups

- Can be polar/nonpolar, + or -
- R groupa can play a role in how proteins form their shape through their interactions with each other
- All proteins are shaped differently
- Hydrophobic is nonpolar and hydrophilic is polar. Ie CO.UK s of organizations

4 levels of organizations

- of a mino acids joined by peptide bonds that form a Primary structure cha protein_
- Por twists due to hydrogen bond (has a 3D Secondar
 - Tertiary Structure: Unique overall 3D shape of a polypeptide due to bonding between R groups
- Quaternary- When two or more polypeptide chains (tertiary forms) combine
- Note: How a protein folds depends on hydrophobicity
- There are polar and nonpolar amino acids. So a nonpolar amino acid would bury inside folded proteins in order to avoid water.