

Chap 5: Biomolecules

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What are monomers? Polymers?

What process builds polymers? What process breaks down polymers?

What are the four groups of carbon compounds?

Know which groups have a monomer/polymer structure and which one does not.

What are the roles of carbohydrates in biological systems?

Know the bond type that attaches monosaccharides to make a polysaccharide.

Know the difference between α and β glucose polysaccharides.

What is a starch? (Ex: cellulose, glycogen, chitin)

What are the main roles of lipids?

Know the difference between saturated and unsaturated fats.

What is a phospholipid? Where is it used in a cell?

What are steroids? (Ex: Testosterone, Estrogen, Cholesterol)

What are the 8 roles of proteins?

How many amino acids are there? What do they make?

What is a catalyst? What is an enzyme?

What are the bonds called in a polypeptide?

Know the 4 levels of protein structure.

What are the main roles of nucleic acids?

What do you call the bonds that attach nucleotides together?

What are the five nucleotides? Which ones are used in DNA? Which ones are used in RNA?

What does antiparallel mean?