

Organic Compounds Lecture Notes

Fill out the study sheet and put it in your binder. It will help you later in the week with the review questions and to study for the test. This is the study sheet for all of the lectures this week.

Organic Chemistry

Organic means _____ and is based on the element _____.

These molecules form _(number) _____ bonds that are _____ type.

There are four organic polymers.

They are: 1) _____

2 _____

3 _____

4 _____

A polymer is a _____ molecule made up of many _____.

Definitions:

Polymer _____

Monomer _____

Dehydration _____

Synthesis _____

Hydrolysis _____

Carbohydrates

These molecules store energy as _____ or _____. They form _____ structures.

Monosaccharide's _____

Disaccharides _____

Definitions:

Di _____

Mono _____

Lipids and Fats

Lipids and fats store _____, make _____, and deal with _____.

Parts: describe and sketch

Glycerol _____

Fatty Acid _____

Phospholipids _____

Define:

Hydrophobic _____

Hydrophilic _____

“Ster” _____

Proteins

Form four things:

1) _____

2) _____

3) _____

4) _____

Amino Acids are a _____ chain formed of complex molecules. They have four parts that determine what Amino acid it will be. The parts are:

1) _____

2) _____

3) _____

4) _____

Primary structure is _____. Secondary structure has two shapes that help determine the Amino Acid.

Alpha Helix:

Beta Pleated Sheet:

Tertiary Structure is the _____ shape.

Nucleic Acid

Nucleic Acids have two main functions in the cell. They are 1) _____ and

2) _____. Nucleic Acids are made from _____. There

are three parts: 1) _____

2) _____

3) _____

Sketch a Nucleotide:

Nitrogen Bases

DNA T _____

C _____

A _____

G _____

RNA U _____

C _____

A _____

G _____

Shape of DNA is _____ . The strands have an
_____ arrangement. This means the strands -
_____ .

Sketch the shape of DNA: