

ORGANIC MOLECULE NOTES

Carbohydrates

→ Made of the elements:

→ Always have a ____:____ ratio of H to O (or H:O).

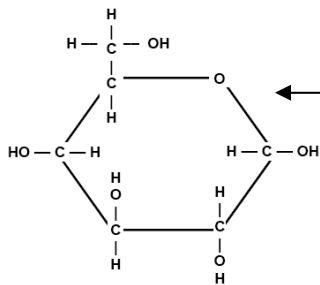
→ The building blocks of complex carbohydrates are:

→ Uses in organisms:

→ Specific examples with functions:

- 1.
- 2.
- 3.

→ Structural formula you will have to be able to recognize:



The name of this molecule is:

Because of its single ring it is a _____ saccharide.

It is important because:

→ Indicators for carbohydrates and color changes

Lugol's Iodine solution turns from _____ to _____ when _____ is present.

Benedict's solution turns from _____ to _____ when _____ is present.

→ Names of carbohydrates usually end in

→ Other facts:

Lipids

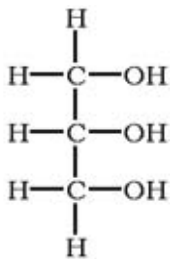
→ Made of elements:

→ Building blocks

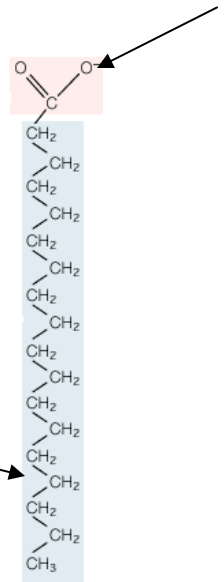
→ Uses in organisms (be sure to indicate what kinds of organisms)

→ Classes or types

→ Name these structural formulas:



Can you identify the “functional group shaded in pink?”



(the whole molecule)

What do chemists call compounds (or parts of compounds like the blue-shaded area) made of hydrogen and carbon??

→ What are some differences between saturated lipids and unsaturated lipids?

→ Other facts:

Nucleic Acids

→ Made of elements:

→ Building blocks of nucleotides:

→ Uses in organisms

→ Classes or types

→ Structures:

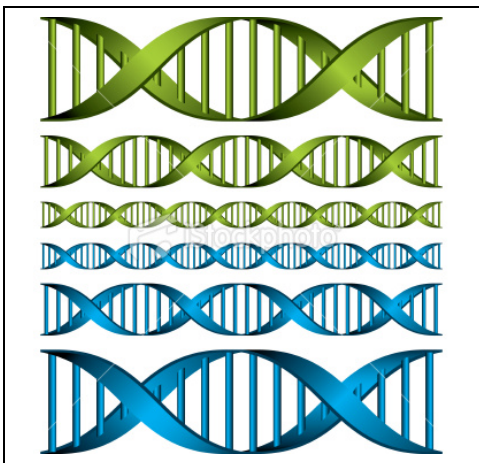
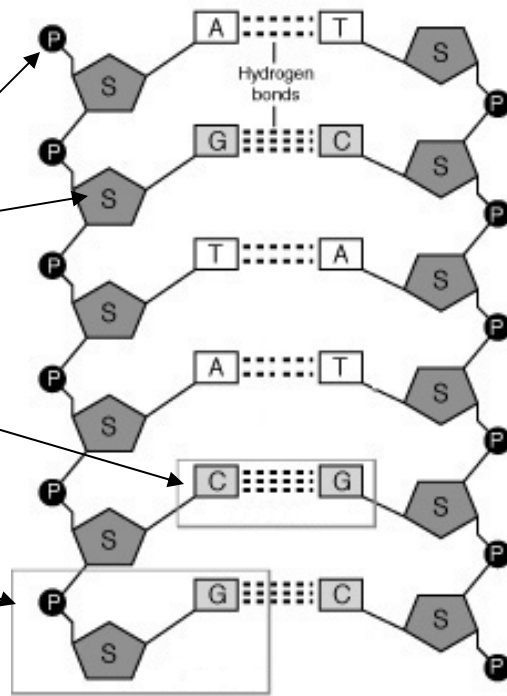
The "P"s in the diagram are _____.

The "S"s in the diagram are _____.

The "A"s, "T"s, "G"s and "C"s in the diagram are

called _____.

This "repeating subunit" is called a



This "twisted ladder" formation is referred to as a:

(not the name of the molecule)

→ Other Facts:

Proteins:

→ Made of elements:

→ Building blocks

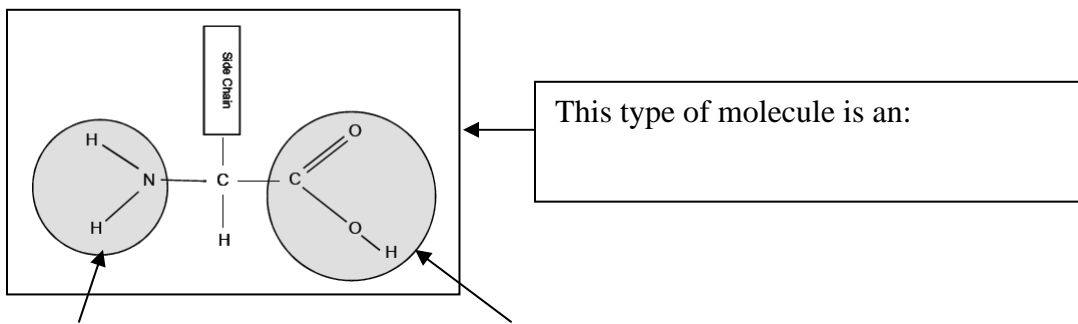
→ Uses in organisms (There are SOOOOOO many. List as many as you can)

→ Classes/types/Basic shapes

→ Specific examples with functions:

- 1.
- 2.
- 3.

→ Some structural formulas:



This functional group is an _____ group

This functional group is a _____ group.

Which other molecule in this packet has one of these groups as well?

→ Other facts: