Organic Chemistry - Chapter 2 Sections 1 and 3

Macromolecules – Part 2

AKA Carbon Compounds

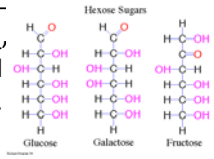
A) Identify the function and building blocks of each macromolecule

B) Analyze a day of personal diet explain whether or not it is healthy.

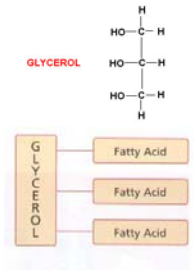
C) Create a meal plan with given limits that incorporates all of the macromolecules.

1. _____

- Building blocks = _____
- Consist of _____, _____ and _____.
- Function = provide _____ _____



2. _____

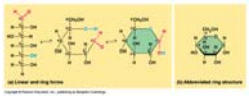


- Building blocks = _____ and _____
- Functions:
  Store _____, _____ coverings (_____), Part of biological _____

3. _____

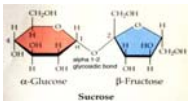
- Building blocks = _____ _____
- The side chain can vary – called _____.
- _____ different 'R' groups = ____ different _____.
- _____ affects protein activity
- Function: Control _____ _____ in body, fight_____, build _____

_____: Chain and Ring

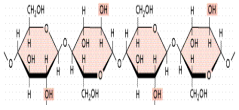


- _____ (and other monosaccharide) chains bend form rings.

Monosaccharide + Monosaccharide = _____ like _____.

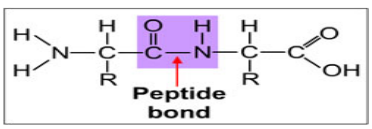


Many monosaccharides = _____. (_____ on right)



_____and _____

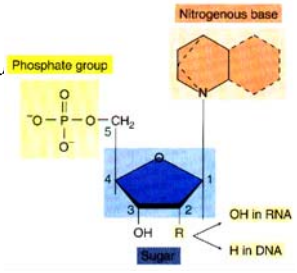
- _____ Bond = Links _____.
- Protein chains = _____ to _____ of amino acids.
- Called _____ _____ because of the many _____ bonds that link them.



A) Identify the function and building blocks of each macromolecule

4. _____

- Building Blocks = _____.
- Contains _____, _____and _____.
- Function = Transmit _____ information, _____ and _____



Predict at least 3 foods for each of the following. Think about the food labels from yesterday.

Carbohydrates	Protein	Lipids	Nucleic Acids

Graphic Organizer on Next Page

Given the clue, identify the macromolecule.

- 1. Stores energy
- 2. Builds muscle
- 3. Amino Acids
- 4. Hereditary Info
- 5. Monosaccharides
- 6. Fights disease
- 7. Provides energy
- 8. DNA or RNA
- 9. Controls reaction rates

A) Identify the function and building blocks of each macromolecule