Biology I

***Organic Macromolecules – Unit 2 Test***

***Study Guide***

**This test revolves around 5 questions:**

1. What is the monomer of \_\_\_\_\_\_\_? *(can you name it and/or identify it by picture or formula)*
2. What polymer can be made from each polymer? *(can you name it and/or identify it by picture or formula)*
3. What is the function of the polymer (macromolecule)?
4. What laboratory tests can be used to identify each macromolecules?
5. How does the human body process these macromolecules (where do the calories come from)?

**If you can identify the following, you will have success on the Unit 2 Test.**

* Monomers
* Importance/Uniqueness of Carbon
* Polymers
* Dehydration Synthesis/Hydrolysis
* Enzyme structure and function
* Conditions that affect enzyme function
* Nutritional value of organic macromolecules
* Reading nutritional labels
* Be prepared to analyze charts & graphs containing lab data and/or enzyme function data.

Here’s a chart to help organize your thoughts:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Macromolecule Group** | **Monomer** | **Polymer** | **Function** | **Lab Test** |
| **Carbohydrates** | -  -  - | * disaccharide   -  -  -   * polysaccharide   -  -  -  - |  |  |
| **Lipids** | -  - | * triglyceride * phospholipid * steroids *(not necessarily made from fatty acid monomer)* |  |  |
| **Proteins** |  | -  -  -  - |  |  |
| **Nucleic Acids** |  |  |  |  |



