

## Macromolecule or Organic Compounds

LT\_1 Identify and explain the 4 categories of Macromolecules (Big ol' Molecules folks...)

LT\_2 Explain the function of each category of Macromolecule

### Section 1 - Intro & Organic Compounds

1. A healthy diet includes \_\_\_\_\_, \_\_\_\_\_ (also called \_\_\_\_\_), and \_\_\_\_\_.
2. Our bodies get these \_\_\_\_\_, the “building blocks” or \_\_\_\_\_, of organic molecules from the \_\_\_\_\_.

### Section 2 - Proteins

3. It is the number and order of \_\_\_\_\_ that determines the \_\_\_\_\_ of the \_\_\_\_\_, and it is the shape ( \_\_\_\_\_ ) of the protein that determines the \_\_\_\_\_ of the protein.

### Section 3 - Carbohydrates

4. \_\_\_\_\_ are the most common type of organic compound; they are organic compounds such as \_\_\_\_\_ or \_\_\_\_\_, and used to \_\_\_\_\_.
5. The small repeating units of carbohydrates are called \_\_\_\_\_.
6. A \_\_\_\_\_ is a \_\_\_\_\_ sugar such as fructose or glucose.
7. \_\_\_\_\_ ( \_\_\_\_\_ ) is used for \_\_\_\_\_ by the cells of most organisms and is a product of \_\_\_\_\_.
8. If two monosaccharides bond together, they form a \_\_\_\_\_ called a \_\_\_\_\_. An example of this is \_\_\_\_\_ (table sugar).
9. A \_\_\_\_\_ is a \_\_\_\_\_ carbohydrate that forms when \_\_\_\_\_ sugars \_\_\_\_\_ together in a \_\_\_\_\_.
10. Complex carbohydrates have two main functions:

## Pair Share and Figure it Out

A. Use the table in Section I to help you fill out the table below (BE CAREFUL to read the categories in the table below - they are not the same!!!)

List the 4 types of Macromolecule				
THREE elements that are the same in all four macromolecules				
The most "obvious", common, or easy to remember POLYMER.				
Monomer				
Food item you would likely find a polymer of this in.				
Food item you would likely find a monomer of this in.				

B. What about carbon makes it valuable to living organisms?

C. List three protein functions in your body:

D. How do we (and other animals) build new proteins? List the steps - picture a food chain yo.

E. You've been told all your life that "sugar is bad for you". Why is this not 100% true?

F. What are the three elements do carbohydrates contain? (**Know your CHO**)

G. Google search - LACTOSE. Click on the wikipedia link. **What does the term Lactose mean?**

H. *This last part is up to you - Google search and take notes on Starch, Glycogen, Cellulose, and Chitin or I can jump on the white board, draw pictures, and tell you stories about them*