

Name: _____ Per. _____ Due Date: _____

Organic Molecule Brochure

Directions: Using your book, create a “Molecules of Life” brochure for the 4 main types of organic molecules we are studying. You can be creative with this but keep in mind neatness and accuracy will be very important.

Carbohydrates (10pts):

1. Draw a diagram of a carbohydrate monomer – label with the specific name (monosaccharide) and the more general name for this type of molecule (sugar).
2. Draw a diagram that shows a polymer of a carbohydrate. Chose a specific molecule and label it correctly (starch).
3. Explain how carbohydrates are used by living things.

Lipids (10pts):

1. Describe a fatty acid and draw the structure.
2. Describe the difference between a saturated and an unsaturated fatty acid.
3. Explain how lipids are used by living things.

Proteins (10pts):

1. Diagram a protein monomer. Identify and label the 4 parts to the molecule. What makes each different monomer different?
2. Describe the importance of proteins to living things.

Nucleic Acids (10pts):

1. Diagram the monomer of a nucleic acid molecule. Label the 3 main parts to this molecule.
2. Identify and describe the two types of nucleic acids. Diagram the 2 different molecules to show how they are different.
3. Describe the purpose and importance of both types of molecules.

Macromolecule	Excellent (10 points)	Average (7-9 points)	Needs Improvement (< 6 points)	Total
Carbohydrates	Diagrams detailed and appropriately labeled. Information is accurate and neatly arranged. No grammar or spelling errors	Diagrams completed. All information included. Only 1 or 2 grammar & spelling errors.	Missing/incorrect diagrams. Information missing or inaccurate. Several spelling & grammar errors.	
Lipids	Diagrams detailed and appropriately labeled. Information is accurate and neatly arranged. No grammar or spelling errors	Diagrams completed. All information included. Only 1 or 2 grammar & spelling errors.	Missing/incorrect diagrams. Information missing or inaccurate. Several spelling & grammar errors.	
Proteins	Diagrams detailed and appropriately labeled. Information is accurate and neatly arranged. No grammar or spelling errors	Diagrams completed. All information included. Only 1 or 2 grammar & spelling errors.	Missing/incorrect diagrams. Information missing or inaccurate. Several spelling & grammar errors.	
Nucleic Acids	Diagrams detailed and appropriately labeled. Information is accurate and neatly arranged. No grammar or spelling errors	Diagrams completed. All information included. Only 1 or 2 grammar & spelling errors.	Missing/incorrect diagrams. Information missing or inaccurate. Several spelling & grammar errors.	
Total Points				

Comments: