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| **Carbohydrate** Diagram (draw the glucose molecule):  Chemical Formula of glucose:  Common ratio of atoms: C:H:O =\_ : \_ : \_  Examples usually end with -\_\_\_\_\_  Composed of which elements? | Categories with examples of each:  Monosaccharides:  Disaccharides:  Polysaccharides: |
| Functions: | Monomer: |

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| **Lipid** Diagram:  Composed of which elements? | | Categories with examples of each:  Fats:  Steroids: | |
| Functions: | | Monomer:  Diagram of monomer (label both parts): | |
| **Protein** Diagram (Polypeptide Chain):  Composed of which elements? | Examples: | |
| Functions: | Monomer: | |

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| **Nucleic Acids** Diagrams (both DNA and RNA):  Composed of which elements? | 2 different examples: |
| Functions: | Monomer:  Diagram of Monomer (label 3 parts): |

Analogies (fill in the blanks with your new found knowledge of carbon based macromolecules):

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to protein as nucleotide is to nucleic acid.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to one sugar as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to many sugars.

3. DNA is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as fats and oils are to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.