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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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.