Macromolecule Worksheet

1. What are the definitions for a monomer and polymer?
   Monomer:
   Polymer:

2. Complete the chart below.

<table>
<thead>
<tr>
<th>ORGANIC MOLECULES</th>
<th>CARBOHYDRATES</th>
<th>LIPIDS</th>
<th>PROTEINS</th>
<th>NUCLEIC ACIDS</th>
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</thead>
<tbody>
<tr>
<td>Monomer</td>
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<td>Polymer</td>
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<td>Function</td>
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<td>Examples</td>
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</tbody>
</table>

2. How many rings are in a monosaccharide? _ Disaccharide? ___ Polysaccharide? ___
   What is the most common monosaccharide? ____________________________
   What is the storage polysaccharide in plants? _____________________ In animals? ____________

3. Are carbohydrates soluble in water? Yes No
   Are lipids soluble in water? Yes No

4. What two functions do nucleic acids have?
   _____________________________________________________________
   _____________________________________________________________

5. What are the three parts that make up a nucleotide?
   __1) ___________________________ __2) ________________3) ___________________________

6. What are the two types of sugars found in nucleic acids?
   DNA _____________________________
   RNA _____________________________