DNA Structure Worksheet

Label the following parts of DNA.

<table>
<thead>
<tr>
<th>Phosphate</th>
<th>Sugar</th>
<th>Nitrogen Base</th>
<th>Nucleotide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base pair</td>
<td>Hydrogen bond</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. _____________________  2. _____________________  3. ___________________

A nucleotide is made of three parts. These three parts are:
1. _____________________  2. _____________________  3. ___________________

Write out the full name for DNA. _________________________________________

What are the sides of DNA made of? ________________________________

What are the “rungs” of the DNA ladder made of? __________________________

Where is DNA located? ______________________________________________

What is DNA? ________________________________________________________

How do the bases bond together? A bonds with ____  G bonds with ____

What are the two strands of DNA held together by? __________________________

Based on the base pairing system, which of the following is/are true?

A. Cells contain the same amount of T as A
B. Cells contain the same amount of C as G
C. Cells contain the same amount of T as G
D. Cells contain the same amount of A as C
What is the shape of DNA? ______________________________________________

Write the complementary sequence of DNA. In other words, if this were one side of the DNA molecule sequence, what would the sequence be for the other side so they paired up correctly?

A T C G T A

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