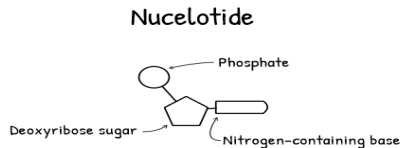


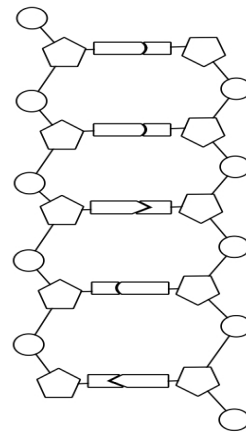
Name answer key

Date _____

DNA STRUCTURE & REPLICATION



Ladder model of DNA



Refer to the diagram:

1. What are the three parts of nucleotide?

A nucleotide includes a phosphate, a deoxyribose sugar, and a nitrogen base.

2. When the nucleotide contains adenine, what type of base is the adenine attached to on the opposite nucleotide strand?

It's attached to thymine.

3. What kind of sugar is found in a nucleotide?

Deoxyribose/ Carbon sugar

4. Which nucleotide component contains nitrogen?

The base

5. What part(s) of the nucleotides make up the rungs of the ladder?

The nitrogen bases such as thymine, adenine, guanine, and cytosine

6. What parts of the nucleotides make up the sides (backbone) of the ladder?

The deoxyribose sugar and phosphates makes up the backbone

7. How many hydrogen bonds connect the two bases?

It takes two hydrogen bonds