

Name _____

The Structure of DNA

DNA is an acronym for Deoxyribo nucleic acid

The DNA in each cell is coiled up tightly and packed into compact units called chromosomes.

A Building block (or a monomer, meaning "one part") of DNA is the nucleotide. A nucleotide consists of a sugar, phosphate and nitrogenous base.

- DNA contains four different nitrogenous bases.
 - adenine (A)
 - guanine (G)
 - cytosine (C)
 - thymine (T)
 - A bonds to T and C bonds to G !!!!

Using that bonding rule, complete the following DNA chains:

- | | | | | | |
|----|-------|----|-------|----|-------|
| 1. | A - T | 2. | G - C | 3. | A - U |
| | C - G | | G - C | | A - U |
| | G - C | | T - A | | G - C |
| | T - A | | A - T | | C - G |
| | C - G | | C - G | | A - U |
| | G - C | | A - T | | U - A |
| | A - T | | T - A | | U - A |