I CAN describe the basic structure of the DNA molecule.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P. \_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_

**Write key word(s) in this column.**

***Example***:

**GENE**

Ch 6 S. 1a Genetics: Structure of DNA—CORNELL NOTES

 A \_\_\_\_\_\_is a DNA sequence which gives instructions for cell processes

 and for building cell structures.

 DNA stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Deoxyribose is the type of sugar found in DNA, nucleic means that the DNA is found in the nucleus.

 DNA is found in the nucleus, in a linear shape called a **\_\_\_\_\_\_\_\_\_\_\_\_**.

 DRAW A PICTURE of a chromosome

 DNA is composed of subunits called  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Each nucleotide is composed of a \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_. DRAW A PICTURE.

Two strands of DNA bond together to form a twisted ladder or



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_, a shape that we recognize as DNA.

On the \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_the rails of the ladder are made from alternating sugar and phosphate; the rungs of the ladder are made from nucleotide base-pairs.

The nucleotide bases on DNA are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 They always bond according to the **\_\_\_\_\_\_\_\_\_** - \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_: A-T and G-C.

 draw picture