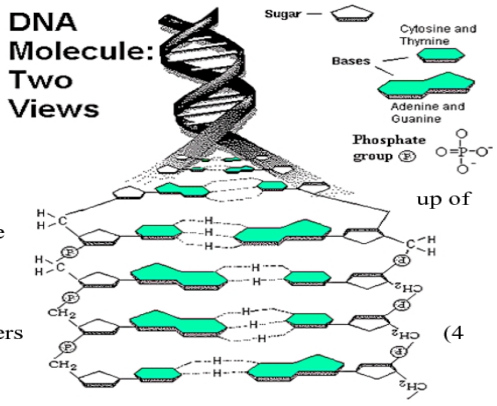
Unit 7 Worksheet
Part I-DNA structure and Replication- pg 185-189 Due in class on November 14th

1. What does the word DNA stand for?



2. DNA is a **polymer,** which means that it is made up of many repeating single units (**monomers**). What are the monomers called?

3. There are 4 different variations of these monomers (4 different bases), what are those?

4. The base_____ pairs with _____. The base _____ Pairs with _____. This is called **complementary base pairs.** Thus one strand of the DNA is complementary to the other strand (opposite/matching).

5. Based on this base paring 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

6. One strand of DNA faces the opposite direction of the other stand. This is called_____ DNA is a double stranded molecule. It looks like a ladder with two sides. This double stranded molecule is coiled (rotated) in a helical manner (like a spring or a slinky, or a spiral staircase). Because of these two properties (2 strands which are coiled in a helical shape), DNA is said to be a _____

7. DNA is in the _____ of cells. DNA contains information to make _____which are responsible for all activities in the cell. So the primary function of DNA is to store and transmit genetic information. The bases of DNA are linked together by intermolecular forces (forces between molecules) that are called _____. This is a