

DNA: STRUCTURE AND REPLICATION (Filmstrip)

Structure of DNA

1. DNA stands for _____
2. DNA is an unusual molecule in that it:
 - a) _____
 - b) _____
3. DNA is the primary material found in _____ (evidence suggests that a chromosome is a single coiled molecule of DNA)
4. Humans possess (in their body/somatic cells) _____ chromosomes. We inherit _____ chromosomes from our mother and _____ from our father.
5. In eukaryotic cells, DNA molecules (chromosomes) are found in the _____.
6. The 3-dimensional structure of DNA was discovered by _____ and _____.
7. The shape of the DNA molecule is best described as a _____ with _____ bonded to the _____.
8. The building blocks of DNA are units called _____. A nucleotide consists of 3 parts:
 - a) _____
 - b) _____
 - c) _____
9. Sketch and label a nucleotide below: