Name	Date	Period	1

Chapter 11: DNA: The Molecule of Heredity

What is DNA?

- Deoxyribonucleic acid
- Is a type of nucleic acid
- What chromosomes (and genes) are made of
- Made up of repeating nucleotide subunits
- 1 nucleotide looks like:



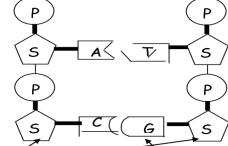
4 types: Adenine (A) - Purine Ring

Guanine (G) - Purine Ring

Cytosine (C) - Pyrimidine Thymine (T) - Pyrimidine

2 strands so bases can pair up

Strand 1 Strand 2



Chargaff's Rule

- In DNA, A = T
- C = G

DNA is complementary

- Complementary: bases on one strand match up with the bases on the other strand (A-T and G-C)
- Example: Strand 1- ATG GGC Strand 2- TAC CCG

Codon: Group of 3 bases

Phosphates + sugars

on the outside

Bases on the inside (Bases fit like puzzle pieces)