

Unit 6 DNA Structure

(pgs. 329 - 331)

RECALL:

2 Nucleic Acids = Deoxyribonucleic Acid (DNA)
Ribonucleic Acid (RNA)

Building blocks

Subunits of nucleic acids =

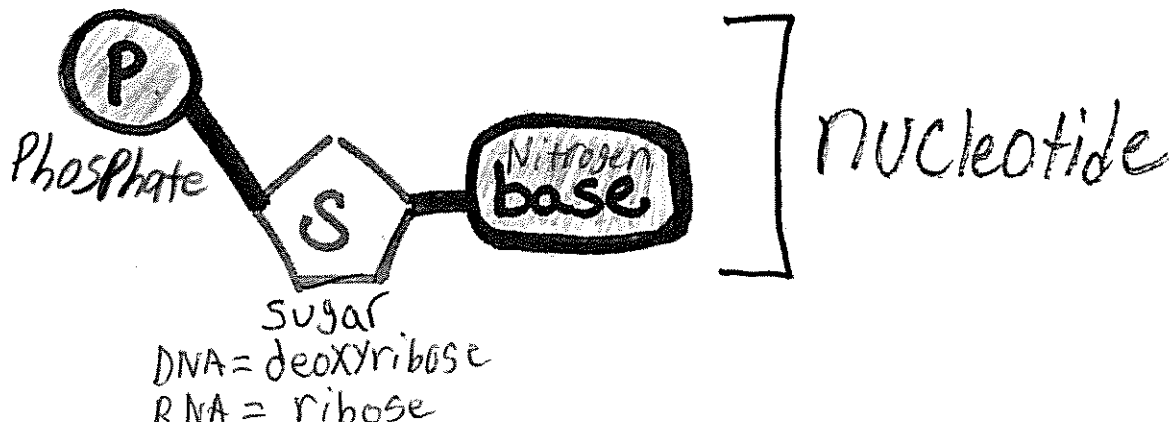
Nucleotides

Job/
Function: Store & communicate genetic information

What do nucleotides look like?

* Nucleotides have 3 parts:

- 1) A sugar molecule
- 2) A phosphate molecule
- 3) A molecule that contains nitrogen called a base



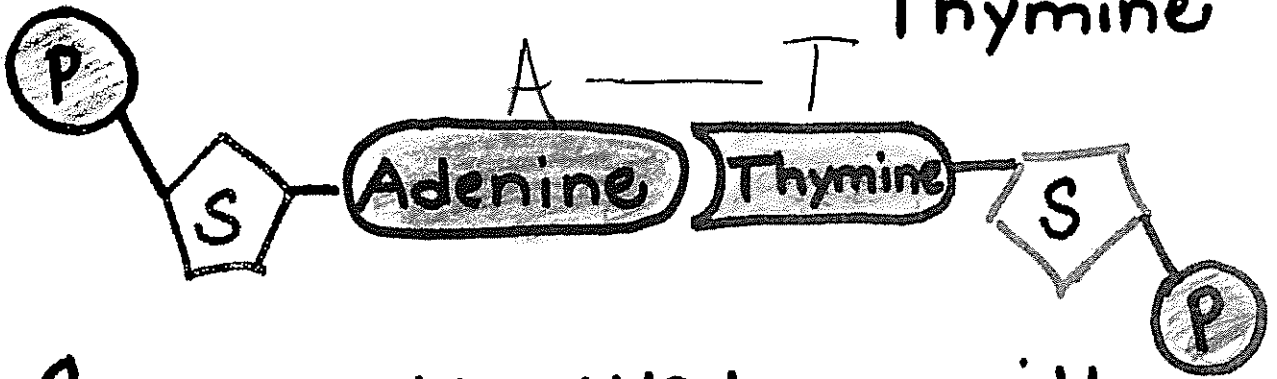
How many kinds of nucleotides are there?

* There are 4 kinds of nucleotides because there are four kinds of ^{Nitrogen} bases:

- * 1) Adenine (A) } larger:
2) Guanine (G) } PURINES double carbon ring structure
- 3) Thymine (T) } smaller:
4) Cytosine (C) } PYRIMIDINES single carbon ring structure

Complementary base pairing

Adenine ALWAYS bonds with Thymine



Guanine ALWAYS bonds with Cytosine

