

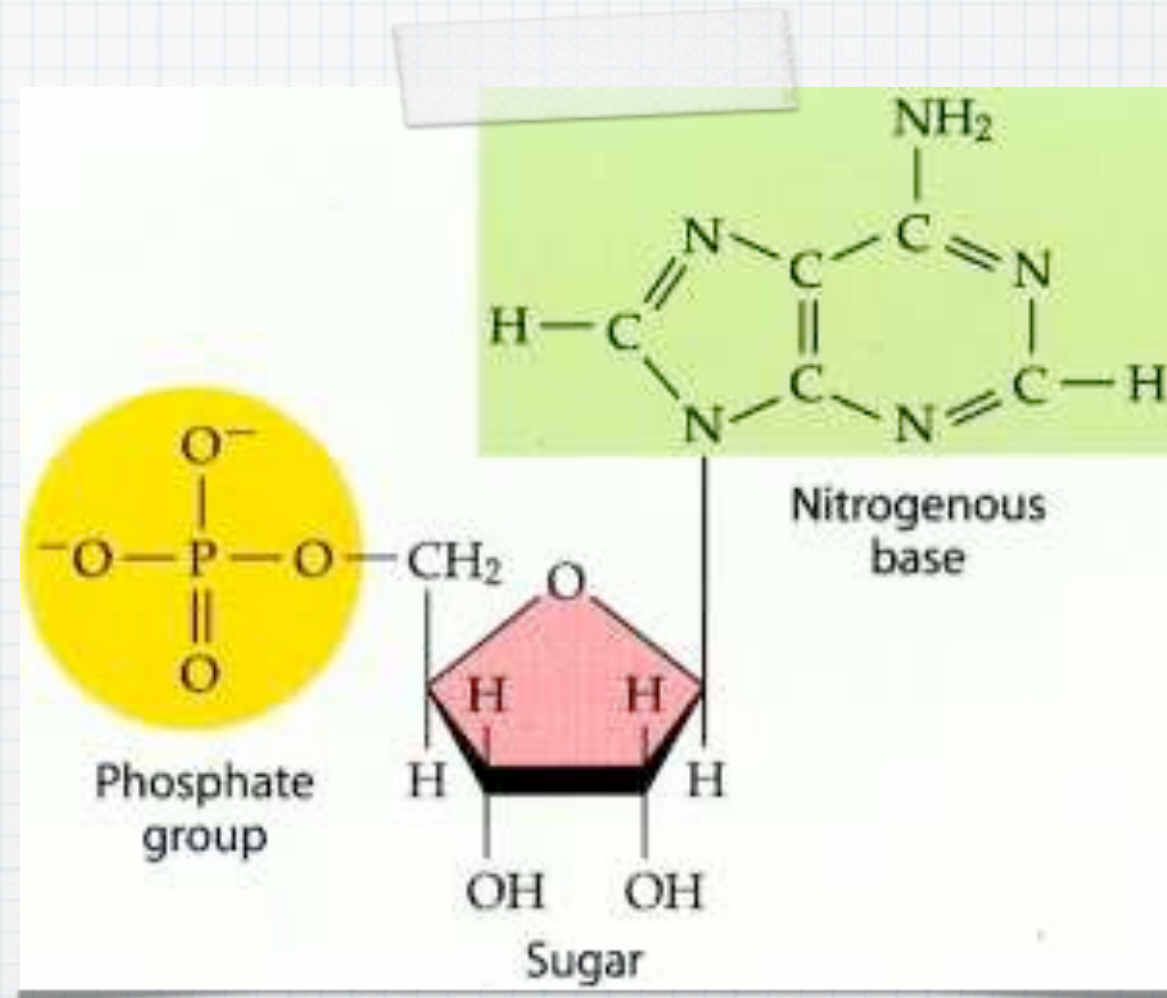
Nucleic Acids

Nucleic Acid Functions

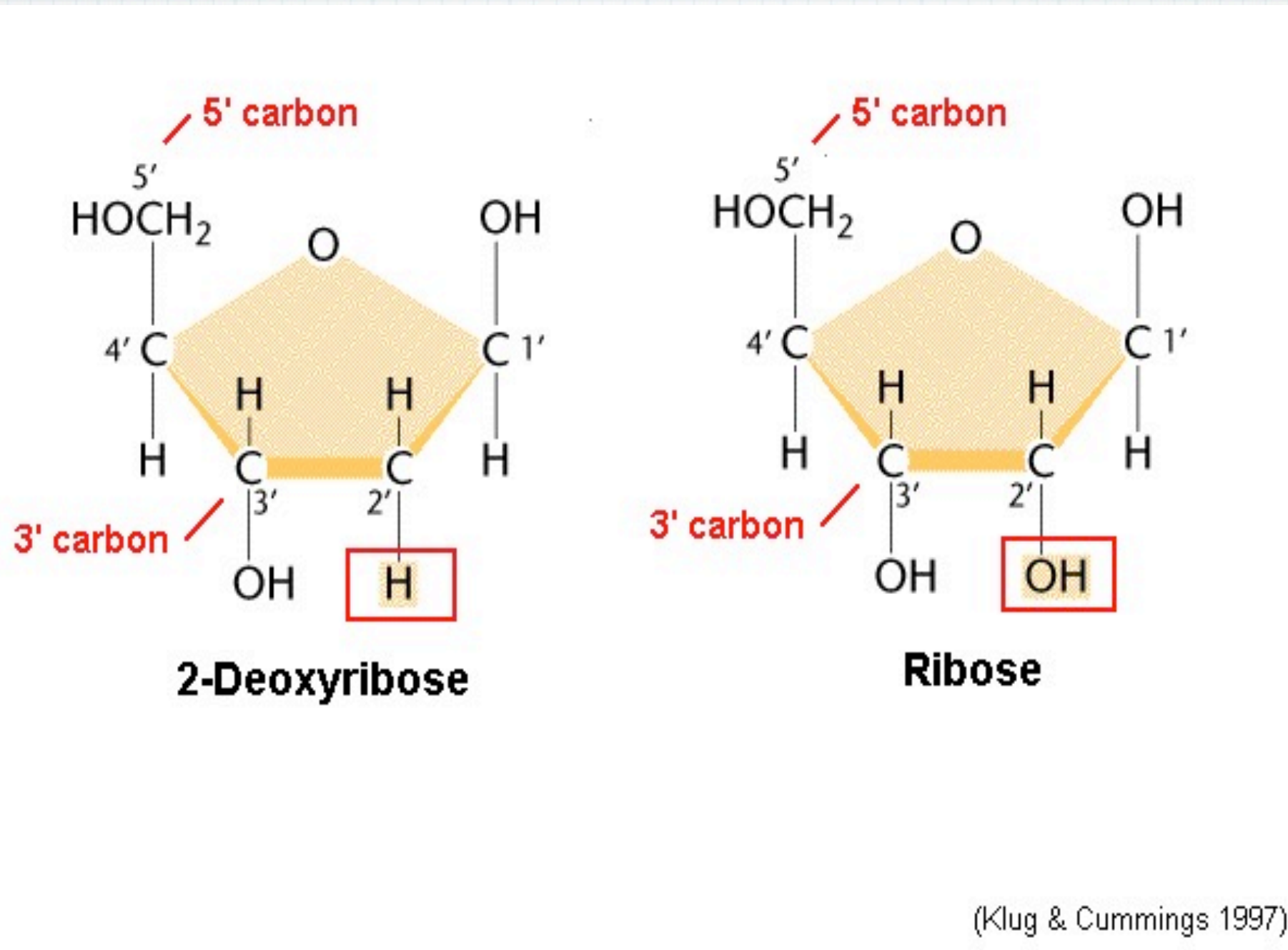
- * deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) used for protein assembly & hereditary information

Nucleic Acid Structure

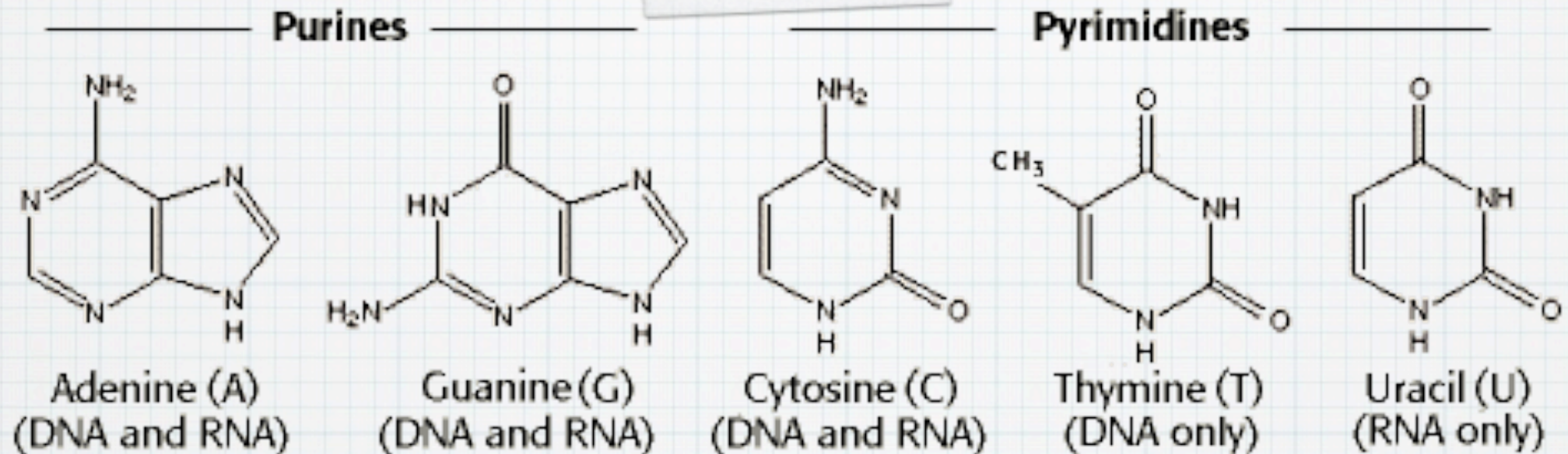
- * nucleic acids are polymers of nucleotides
- * nucleotide:
 - * sugar
 - * phosphate group
 - * nitrogenous base



Deoxyribose & Ribose

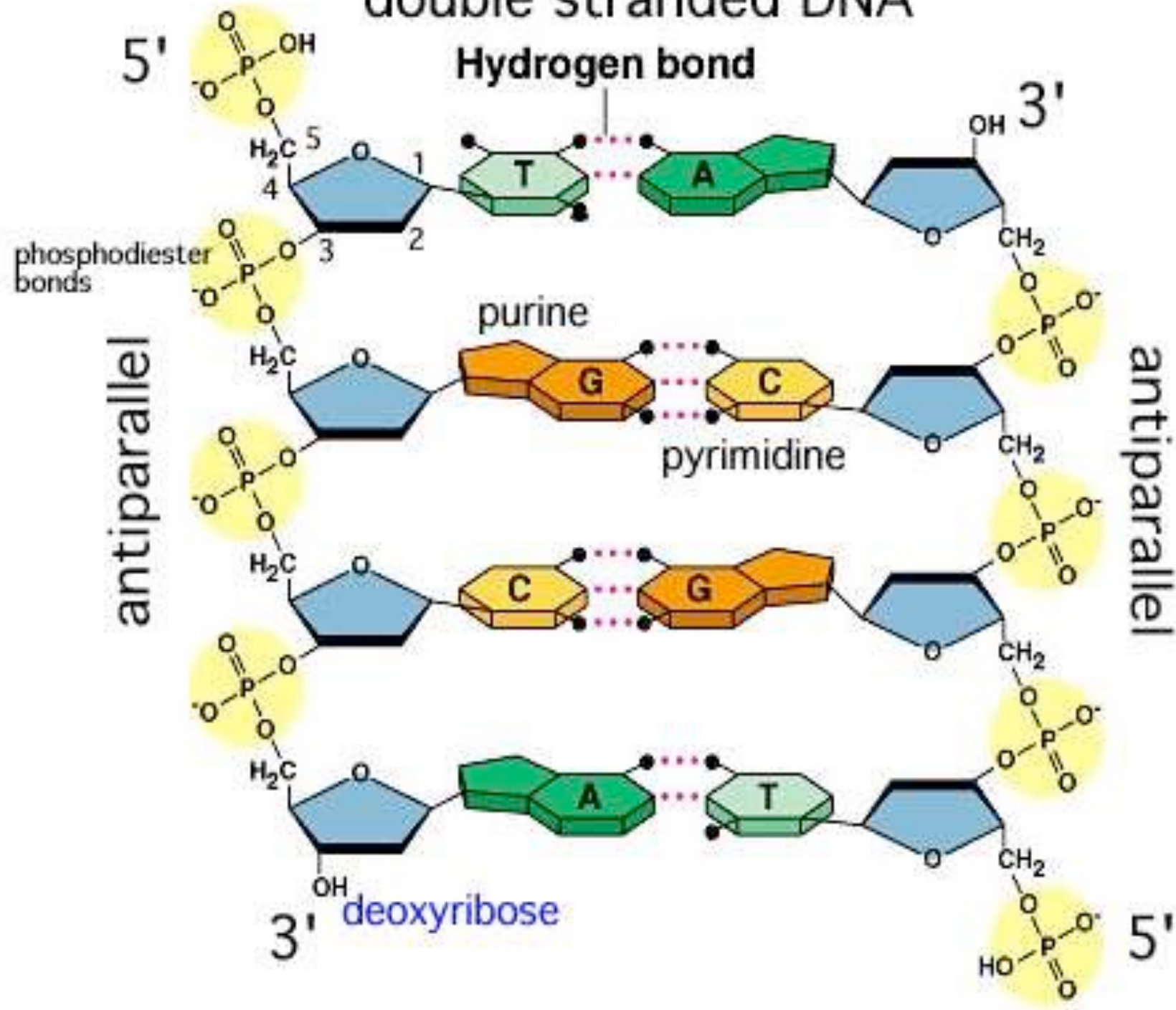


Nitrogenous Bases



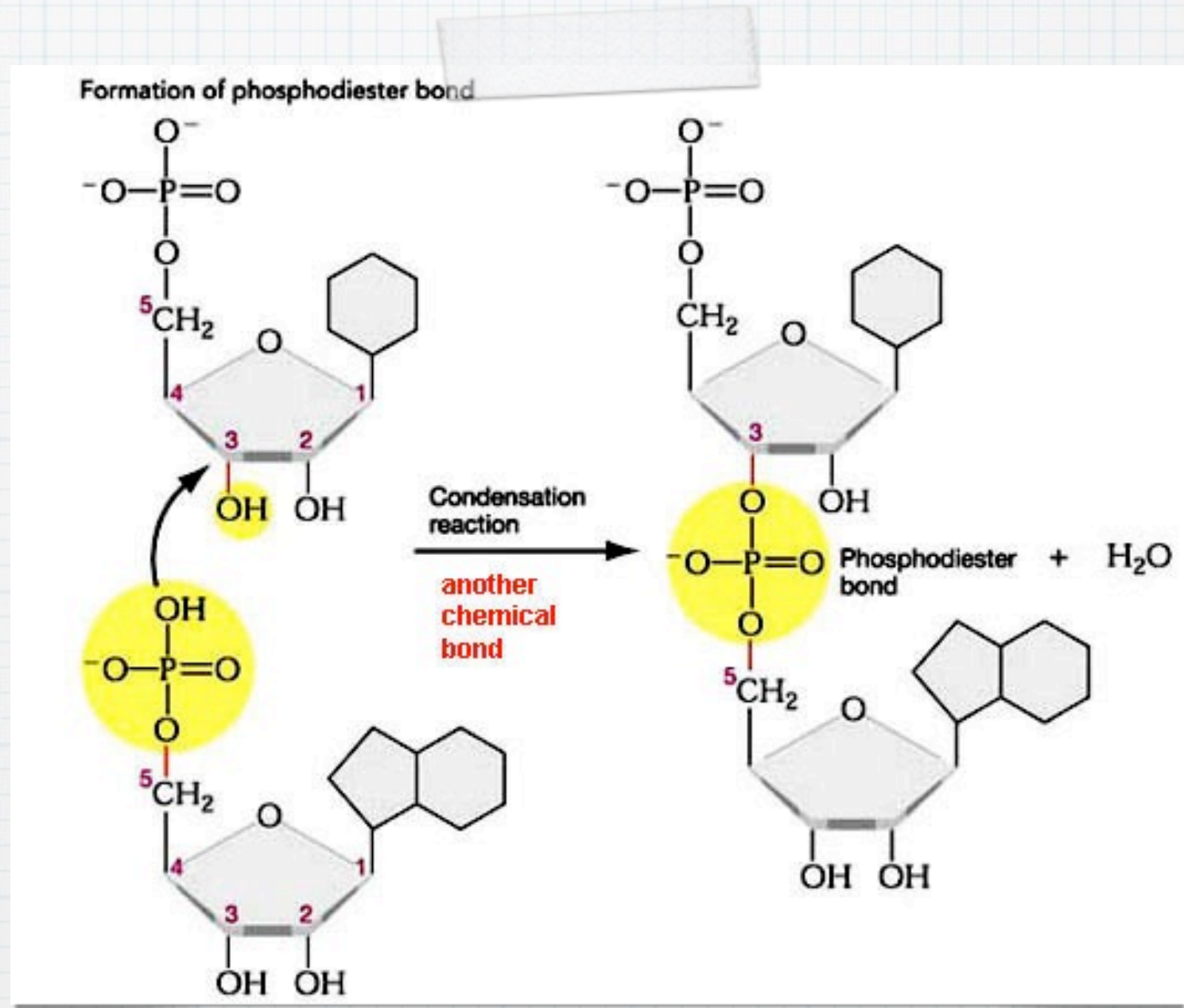
- * Purines: Double ring structure
 - * Adenine, Guanine
- * Pyrimidines: Single ring structure
 - * Cytosine, Thymine, Uracil

double stranded DNA



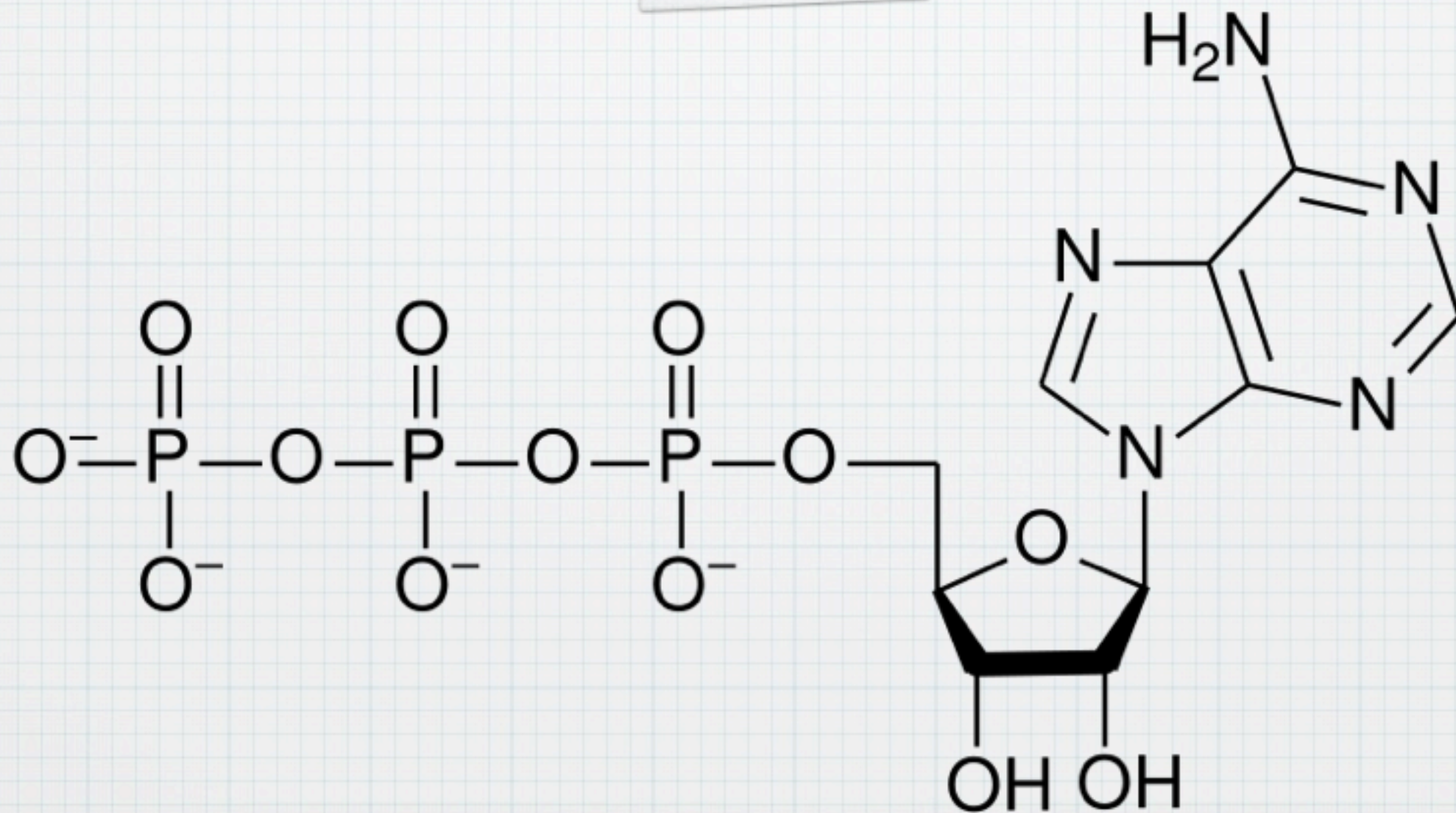
Nucleotide Bonding

* Nucleotides are help together by phosphodiester bonds

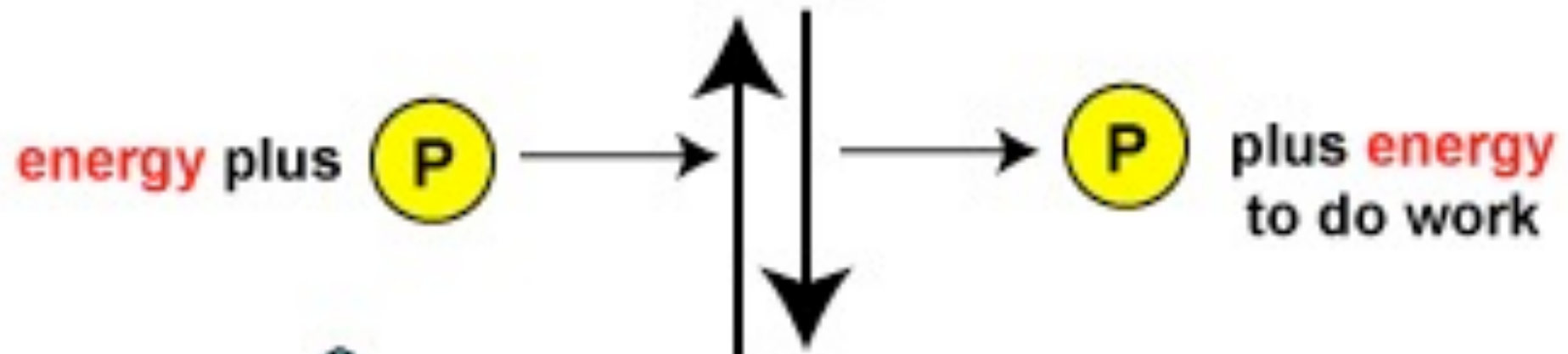
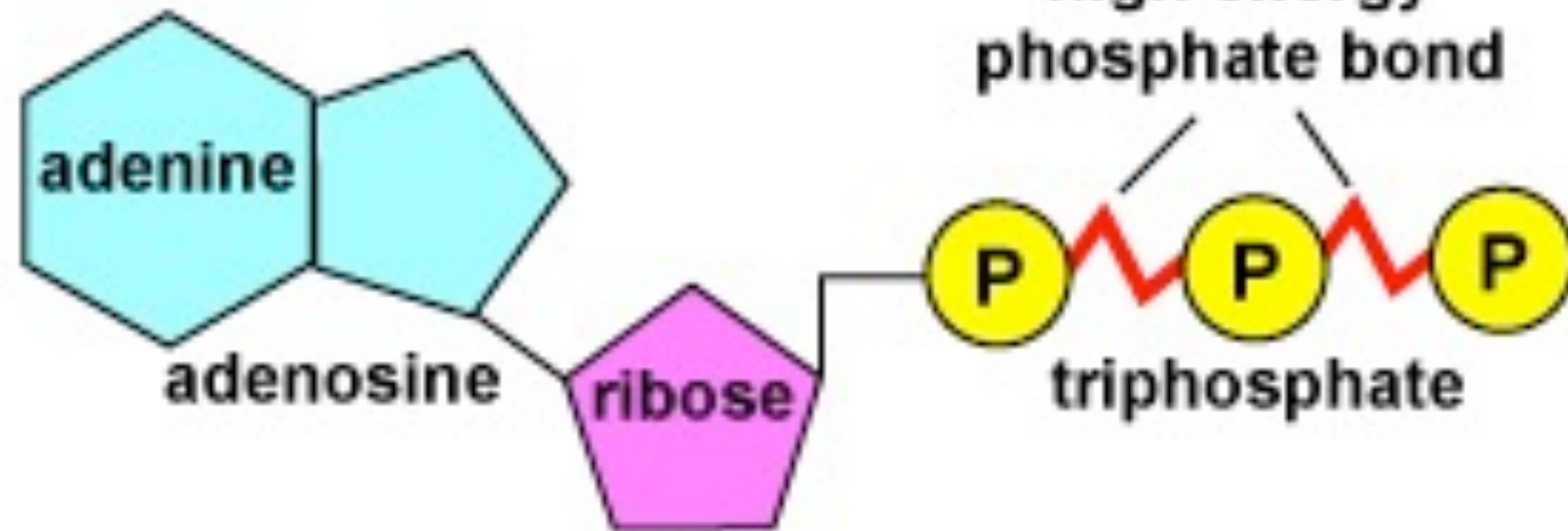


Adenosine Triphosphate

- * Adenosine triphosphate (ATP) is the primary source of free energy in living cells



ATP



ADP

