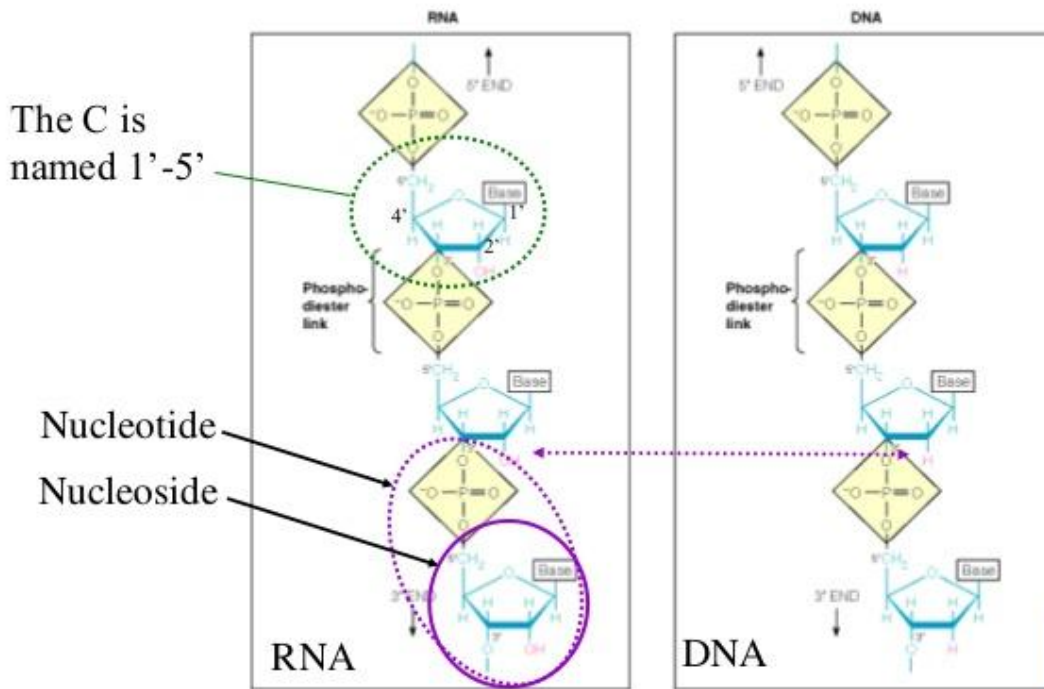
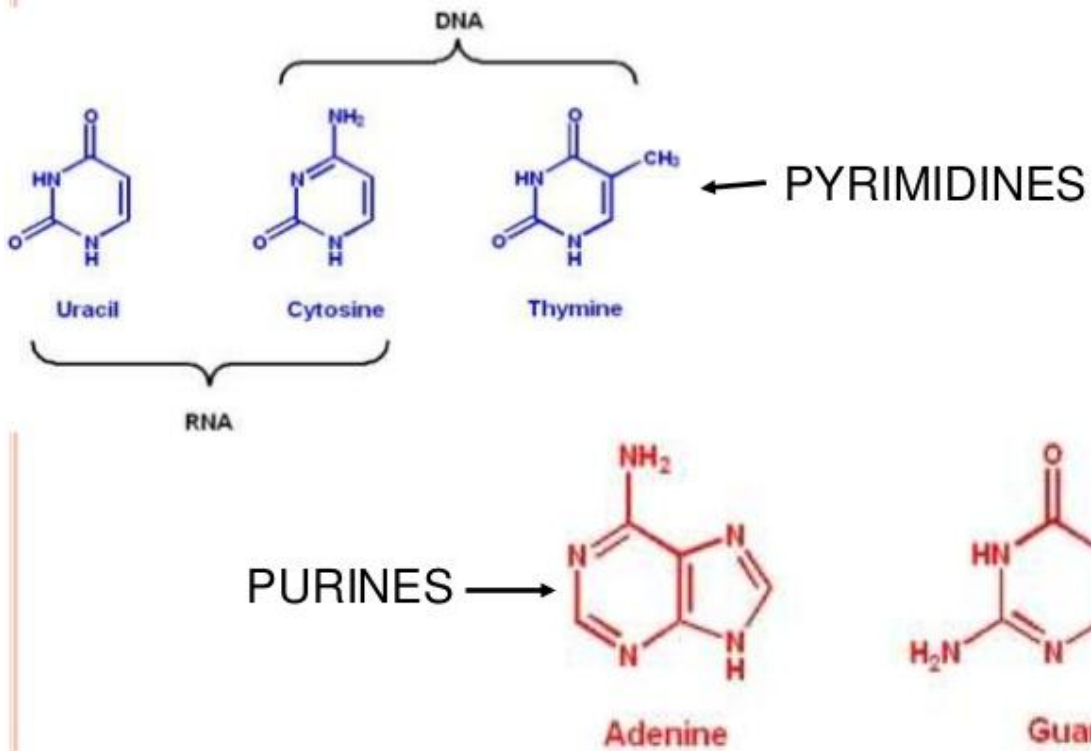


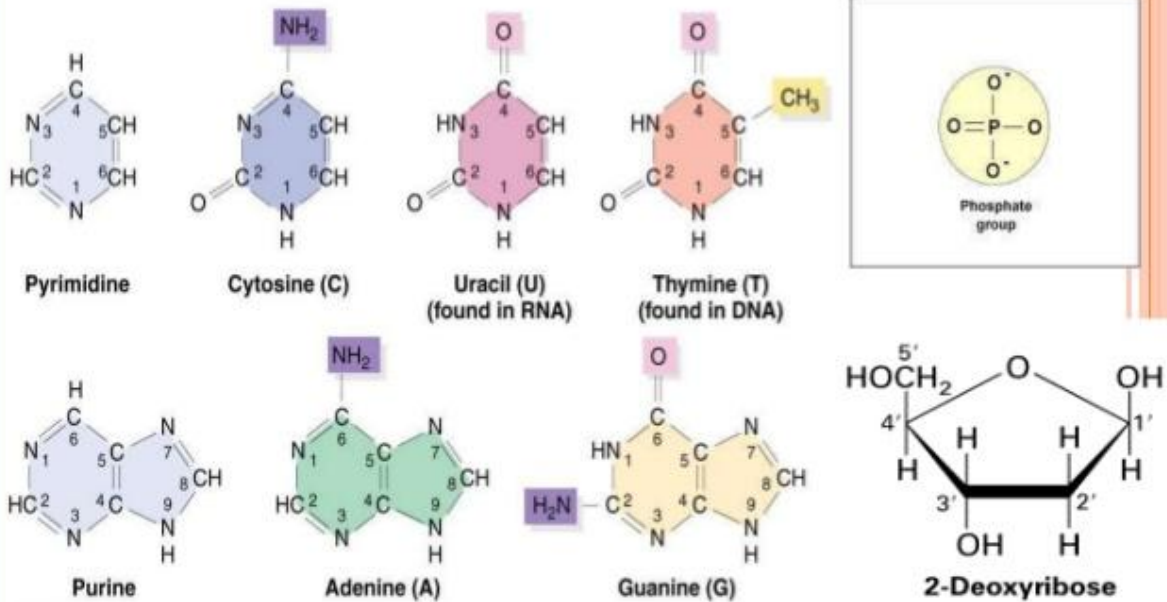
CHEMICAL STRUCTURE OF DNA AND RNA



THE BASES



NITROGENOUS BASES



DNA STRUCTURE

In 1953, Watson and Crick postulated a three dimensional model of DNA structure that accounted for both the X-ray data and the characteristic base pairing in DNA.

- It consist of two helical polynucleotide chains.
- Two polynucleotide chains coil around the same axis to form a right –handed double helix.
- In the helix, the two chains or strands are anti parallel i.e. have an opposite polarity.
- Backbone of each chain which consist of alternate sugar-phosphate residues, (hydrophilic) are on the out side of the double helix, facing the surrounding.

