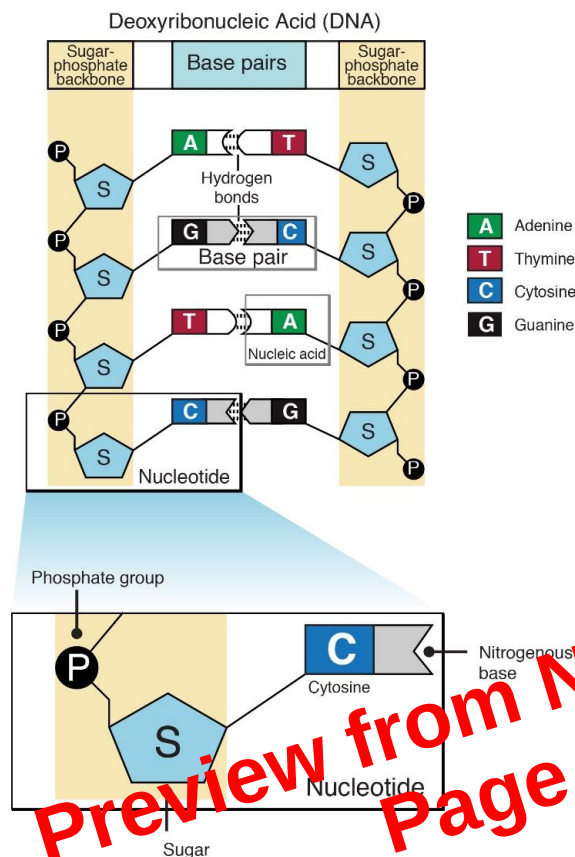


Ch. 1 Heredity and Evolution

In the structure of the nucleotide, a molecule of a nitrogenous base and phosphoric acid are each joined to a molecule of sugar.



As there are four types of nitrogenous bases, nucleotides also are of four types. Nucleotides are arranged like a chain, in a molecule of DNA.

The two threads of the DNA molecule are comparable to the two rails of a ladder and each rail is made up of alternately joined molecules of sugar and phosphoric acid.

Each ring of the ladder is a pair of nitrogenous bases joined by

hydrogen bonds. Adenine always pairs with thymine and cytosine always pairs with guanine.