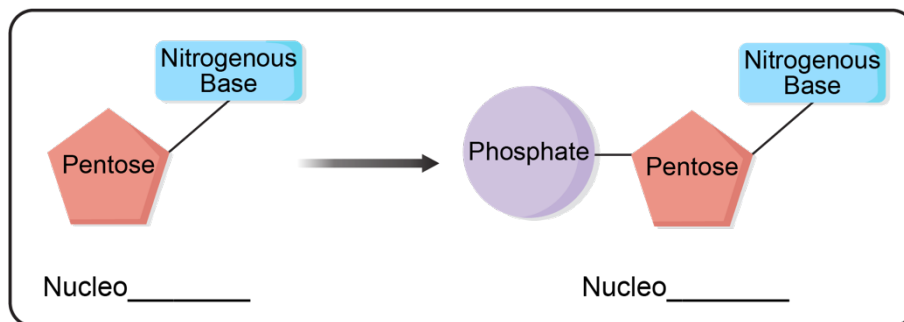


CONCEPT: INTRO TO NUCLEIC ACIDS

- **Nucleotide:** _____ of nucleic acid.
- **Nucleic Acid:** polymer of *nucleotides* that store & encode _____ information; consists of 2 types.
 - **DNA** (deoxyribonucleic acid): _____ genetic info of cellular organisms.
 - **RNA** (ribonucleic acid): _____ genetic info from DNA to create proteins.

Components of Nucleotides

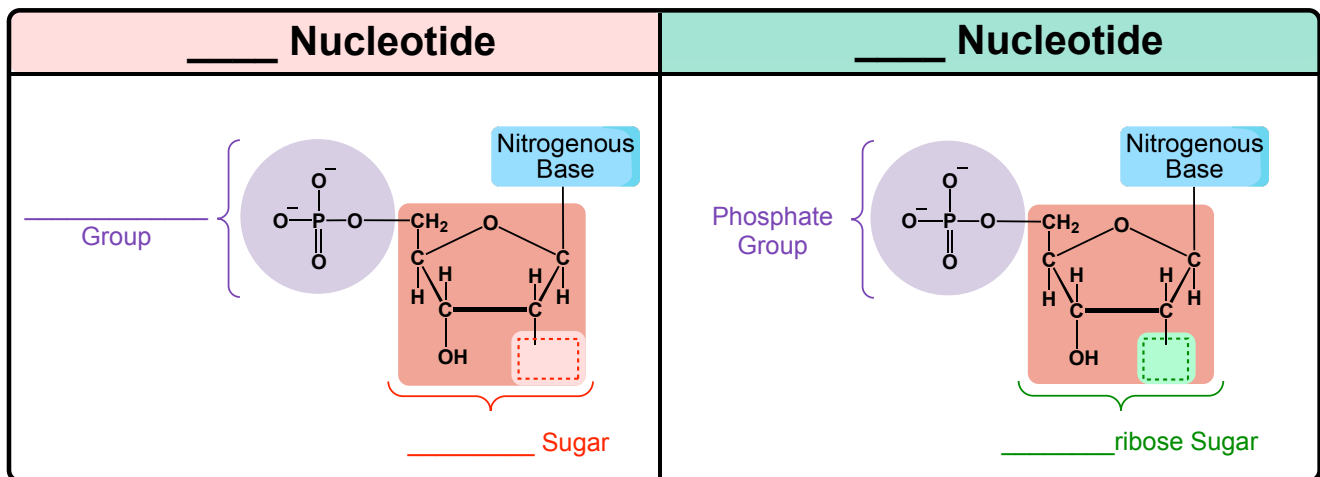
- **Nucleoside:** precursor of nucleotide, consists of (1) _____ sugar and (2) Nitrogenous _____.
- **Nucleotide** consists of a Nucleoside and a _____ group.



RNA vs DNA Nucleotides

- Pentose sugar in RNA is _____ while in DNA is 2-_____ ribose.

Terminology Tip:
Deoxy: means without oxygen.



EXAMPLE: Select correct statement describing nucleotides.

- The sugar in DNA has an extra -OH group than the sugar in RNA.
- All nucleotides contain a nitrogenous base.
- The sugar in DNA contains one less carbonyl group than the sugar in RNA.
- All nucleotides contain a ribose sugar.