

# Biochemistry ACS Study Guide

## What are Nucleotides?

Nucleotides are the monomer unit for nucleic acids and are *composed of nitrogenous base, 5-carbon sugar and a phosphate group.*

*Nucleic acids are biopolymers of: nucleotide monomers*

- DNA (MORE STABLE): carrier of genetic information; double-stranded
  - RNA (LESS STABLE) : intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (usually).
    - Types of RNA:
      - tRNA: transfer RNA, holds amino acids used in protein synthesis, remember WOBBLE POSITION(Inosine)!
      - rRNA: ribosomal RNA, part of the ribosome
      - siRNA: small interfering RNA, short term silencing of pleiotrophin coding genes, targets mRNA for degradation
      - miRNA: micro RNA, silencing and post-transcriptional regulation of gene expression.
- etc. serve a wide array of different purposes (esp. Compared to DNA). Can also catalyze reactions (Ribozyme).

## Nitrogenous Bases:

*Use resonance to help to differentiate between all four: If needed nitrogen will donate!*

- Purines (2 rings: pyrimidine and imidazole) - Adenine, Guanine are purines derivatives in nucleic acid

### Purines



- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acid



- A-T/U bond has 2 H-bonds
- G- C bond has 3 H-bonds

# Official Acs Study Guide

**Sean Wilkins, Franklin H. Smith**



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**Preparing for Your ACS Examination in Organic Chemistry I.** Dwaine Eubanks,2002

**Preparing for Your ACS Examination in General Chemistry - the Official Guide** LUCY T. EUBANKS,2018-10-15 This guide is separated into first term and second term general chemistry material Each section contains 8 chapters of material that also aligns to most general chemistry textbooks for a seamless addition to study materials for students Each chapter is designed with an introductory section of the material including common

representations and where to find this material in a textbook The second section provides worked examples of typical multiple choice questions including how the correct answer is determined as well as how the incorrect answers were determined Also included for each study problem is a listing of the corresponding practice questions that use that concept The final section is a series of practice problems to test the concepts collectively The key is provided on a separate page for all study and practice problems

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