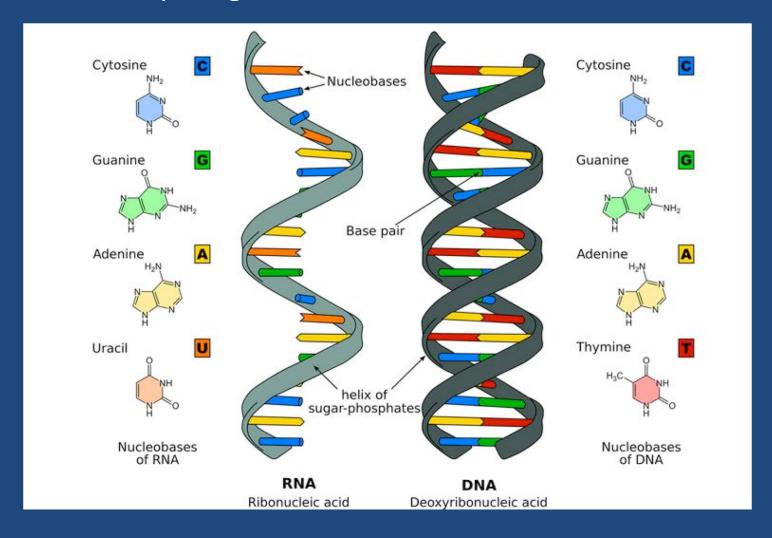
# Ch 14.1 & 14.2: RNA, Ribosomes & Protein Synthesis

# **Essential Questions:**

- How does RNA differ from DNA?
- How does the cell make RNA?
- How does the genetic code work?
- What role does the ribosome play in assembling proteins?
- How does molecular biology relate to genetics?

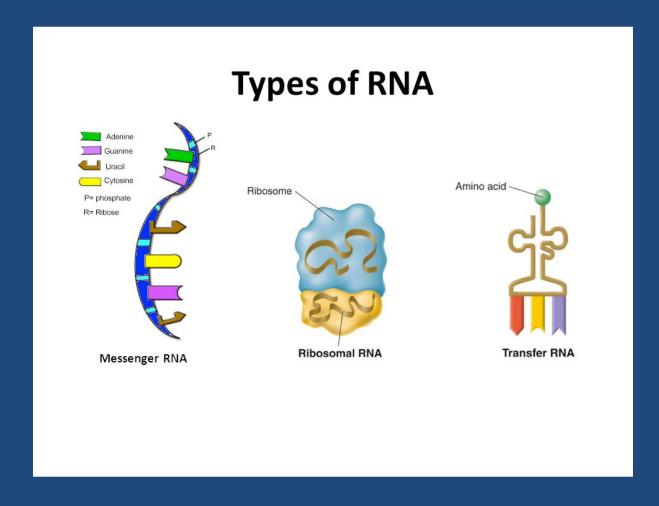
### RNA

- The Role of RNA
  - Comparing RNA & DNA



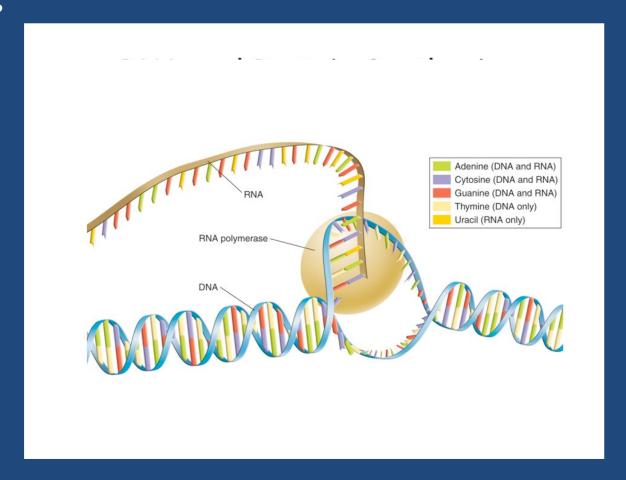
# 3 Main Types of RNA

- Messenger RNA (mRNA)
- Ribosomal RNA (rRNA)
- Transfer RNA (tRNA)

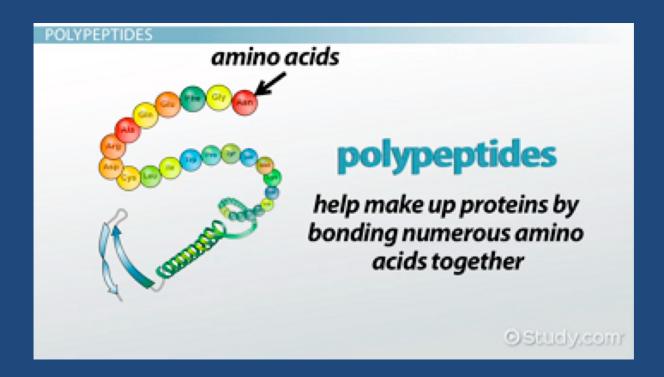


# – RNA Synthesis

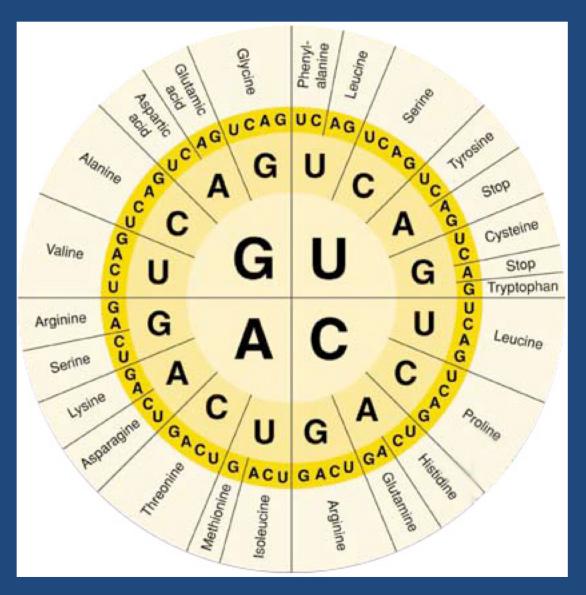
- Transcription
  - RNA polymerase
- Promoters
- RNA editing
  - Introns
  - Exons



- Ribosomes & Protein Synthesis
  - The Genetic Code
    - Polypeptides
    - Genetic code
    - Codon



- How to read codons
- Start and stop codons



#### Translation

- Steps in translation
  - Anticodon
- Roles of tRNA & rRNA in translation
- Molecular Genetics

