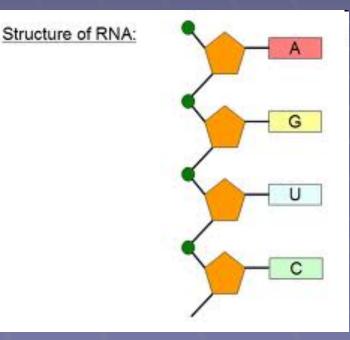
Chapter 12-3: RNA & Protein Synthesis

Essential Questions:

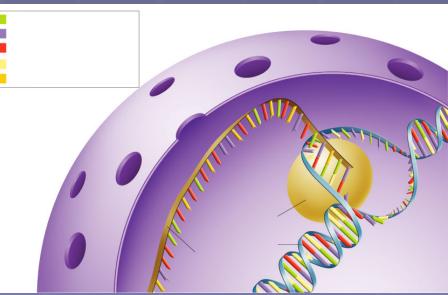
What are 3 types of *RNA*?
What is the function of 3 types of RNA?
What happens during *transcription*?
What happens during *translation*?

How does a gene work?
Structure of RNA *Ribose*, not deoxyribose *Uracil* replaces thymine
Single, not double strand

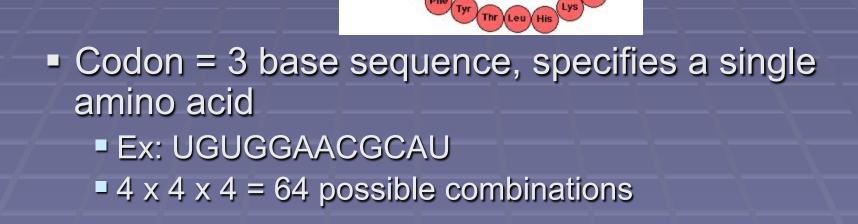


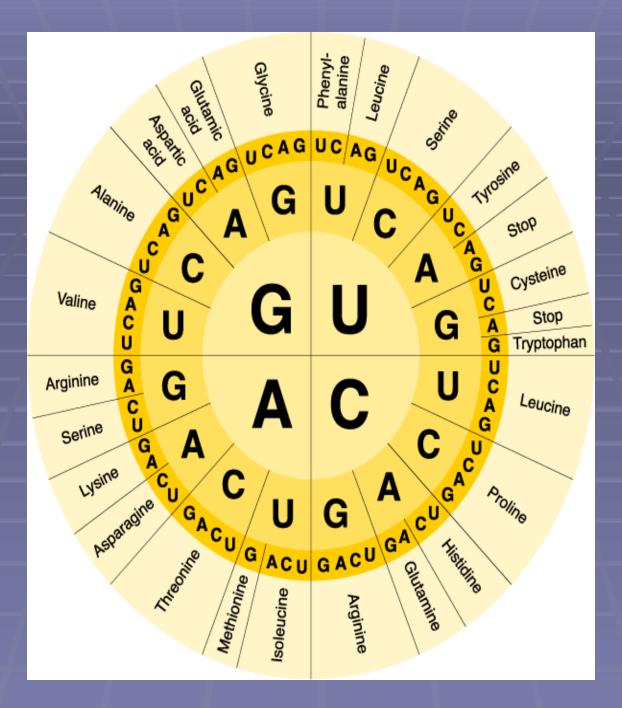
Types of RNA
 mRNA: messenger RNA
 rRNA: ribosomal RNA
 tRNA: transfer RNA
 Transcription
 Enzymes separate DNA

 Enzymes separate DNA strand, uses 1 strand to make mRNA strand



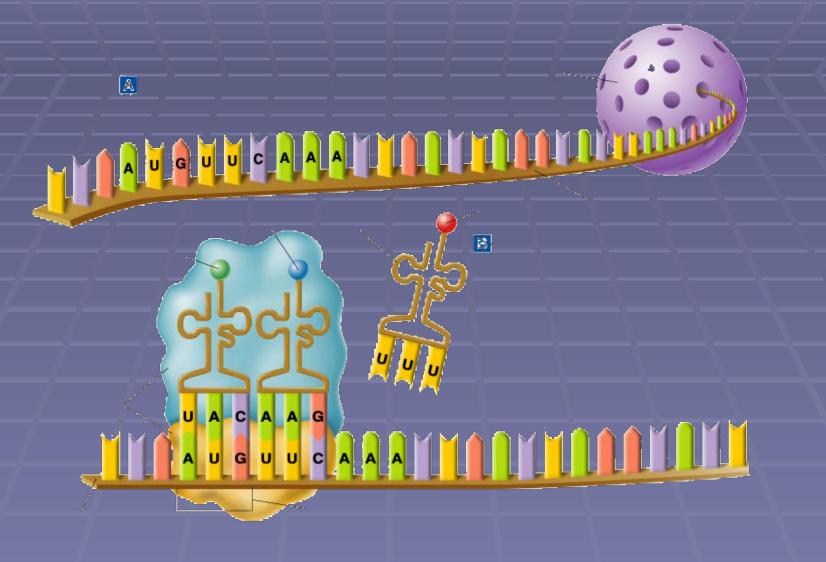
The Genetic Code Proteins = polypeptides = long chains of amino acids



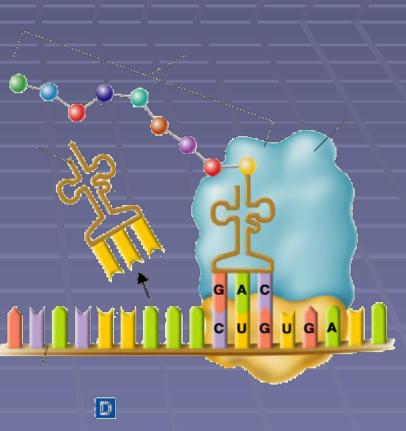


Translation

- @ ribosomes
- mRNA: "instructions" ribosome "reads"
 - tRNA "anti-codon" for each a. acid, brings it to ribosome
 - "stop" codon: ribosome releases polypeptide chain (now a protein)







Roles of DNA & RNA
 Master plans vs. disposable instructions
 Genes & proteins
 Why are proteins key?