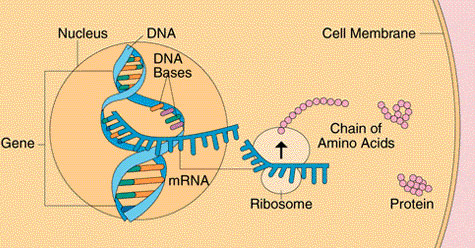
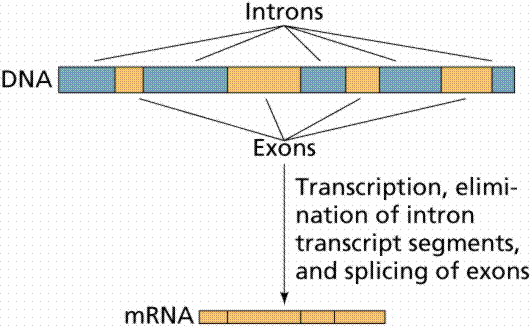
**Transcription and Translation**

Using directions from \_\_\_\_\_\_\_\_\_\_\_ to synthesize \_\_\_\_\_\_\_\_\_\_\_\_\_\_

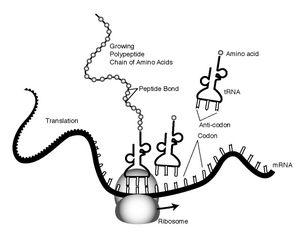
* Why do we need protein? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Where do we get protein? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* We break these proteins down to their monomers (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) and make proteins that we need.
* Transcription
  + Occurs in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Process that uses the directions in \_\_\_\_\_\_\_\_\_\_ to make \_\_\_\_\_\_\_\_\_\_\_\_\_



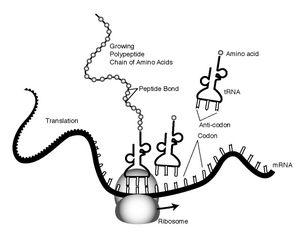
* + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ unzip in short segments
  + RNA Nucleotides are free floating in the nucleus
  + They form a complementary strand of \_\_\_\_\_\_\_\_\_\_\_\_ to the DNA
  + DNA \_\_\_\_\_\_\_\_\_\_\_ back up.
  + Not all mRNA gives actual directions
  + \_\_\_\_\_\_\_\_- Intervening regions
    - Non-Coding (JUNK)
  + \_\_\_\_\_\_\_\_- Expressed regions
    - Coding regions
    - They mean something!



* + After removing ­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the mRNA moves into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ where translation occurs!
* **Steps in Translation**
* 1st: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ binds to ­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_



* 2nd: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ instructs \_\_\_\_\_\_\_\_\_\_\_\_ to bring the appropriate Amino Acid



* rRNA knows which amino acids to tell tRNA to bring because of **\_\_\_\_\_\_\_\_\_\_\_\_\_** that are found on \_\_\_\_\_\_\_\_\_



* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on tRNA complements the \_\_\_\_\_\_\_\_\_\_\_ on the mRNA



* *Page 292 in your text can be used to see the mRNA genetic code and names of the amino acids*
* The amino acids bond together to form ­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = Proteins

