Chapter 12-3 Part I Objectives, Pgs. 300-306 **Objectives - Students will:**

A) Identify RNA and the three types

- B) Identify the locations and functions of the 3 types of RNA
- C) Compare three differences between **DNA and RNA**
- D) Summarize the two stages of protein synthesis
- E) Identify the mRNA codons for a DNA strand

Obj. A) Identify RNA and the three types

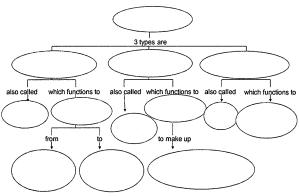
What is RNA?

1.			Molecule -
	made	of	

3. Types =

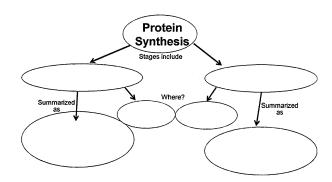


Obj. B) Identify the locations and functions of the 3 types of RNA



Obj. C) Compar	e three differences b	etween DNA a	ınd RNA
D	<u>NA</u>	RNA	
1	1		
	2		
3	3		
4	4		

Obj. D) Summarize the two stages of protein synthesis



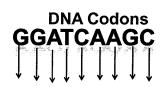
Obj. D) Summarize the two stages of protein synthesis

Stage 1: Transcription:

- produced from DNA
- 2. In
- 3. Steps:
- DNA
- DNA
- codons line up
- Codon = 3 _____



Obj. E) Identify the mRNA codons for a DNA strand



Remember mRNA has:

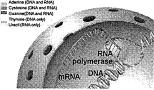
- <u>Uracil</u> instead of thymine
- GCAU

mRNA

How many codons are present in the mRNA strand?

Obj. D) Summarize the two stages of protein synthesis ${\hbox{Answer the following questions while watching the video.}$

1. What molecule provides instructions to make proteins?

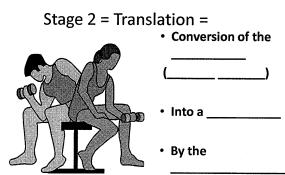


2. What type of RNA receives a copy of these instructions?

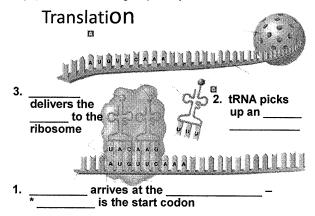
DNA Transcription Video -- Prentice Hall

- 3. What base replaces thymine in RNA?
- 4. Identify the mRNA bases for the following DNA bases: TACCAACCT

Obj. D) Summarize the two stages of protein synthesis



Obj. D) Summarize the two stages of protein synthesis



Translation Comple		
·		5 Chain grows =
G	1000	, y
4. tRNA 1. tRNA delivers	3. <mark>ి హ '</mark> . ఎ⁄	bond forms
ch 22 36	4	leaves
何是近原	1111	[] [duauda []
	Comple Stops a	eting the Polypeptide
2. Ribosome joins	Otopa t	STOP codons exist

Understanding Check

- 1. What are the three types of RNA?
- 2. Identify the complementary bases for each:

DNA	Т	Α	С	G	G	С	Α	T	Α	С	Α	G
mRNA												
tRNA												

3. When the anticodon for tRNA arrives at the ribosome, what does tRNA deliver?