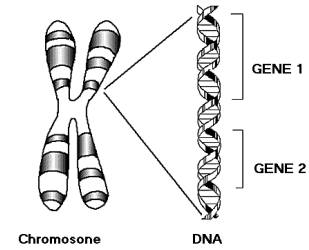


Bio I

Notes: Protein Synthesis – Introduction and Transcription

Review DNA (terms: chromatin, histones, chromosome, chromatid, centromere, genes



Ribonucleic acid (RNA)

DNA versus RNA

	DNA	RNA
<i>Number of Strands</i>		
<i>Sugar</i>		
<i>Bonds with adenine</i>		

Components of a ribonucleotide (RNA nucleotide)

- 1.
- 2.
- 3.

Three types of RNA

- 1.
- 2.
- 3.

Protein synthesis:

- Review proteins:
- Brief summary:

Process of DNA to proteins is better known as gene expression.

Two stages of protein synthesis (gene expression)

- 1.
- 2.

Transcription

- Summary of process:

- Location:

- Process / Simulation
 -

- DNA strand:

<i>T</i>	<i>A</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>C</i>	<i>T</i>	<i>A</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>T</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>G</i>	<i>T</i>

- Template versus non-template strand:

2.

DNA template strand

<i>T</i>	<i>A</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>C</i>	<i>T</i>	<i>A</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>T</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>G</i>	<i>T</i>

mRNA

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

DNA non-template strand

3.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

mRNA

<i>T</i>	<i>A</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>G</i>	<i>C</i>	<i>C</i>	<i>T</i>	<i>A</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>T</i>	<i>G</i>	<i>G</i>	<i>A</i>	<i>G</i>	<i>T</i>

DNA strand

Why mRNA kept in groups of three?

Comparing DNA Replication to Translation

