From DNA to Protein

* DNA is the genetic code or blueprint for making a Protein

Part 1: Transcription

Where? Nucleus

What does transcription make? Messenger RNA (mRNA)

Nucleus

DNA nucleotides

RNA nucleotides

mRNA breaks off & leaves nucleus to go to ribosomes in cytoplasm
RNA Translation = Protein Synthesis

Use with Chapter 11, Section 11.2

- Set of 3 nitrogen bases on bottom of tRNA
- mRNA codon
- First set of 3 nitrogen bases (AUG) on mRNA
- Messenger RNA (mRNA)

Methionine

Pairs with mRNA
Start codon

Start codons

UAC
AUG

Alanine

Methionine

Protein or Polypeptide

Stop codon

Last set of 3 nitrogen bases on mRNA (UAA)