

CONCEPT: OVERVIEW OF TRANSCRIPTION

- **Transcription** is the process of using DNA as a template to _____ RNA
 - **RNA polymerase** is the enzyme that transcribes DNA
 - There are many different types of RNA polymerases
 - RNA transcripts are _____ in the 5' to 3' direction by adding rNTPs onto the 3' OH group
 - Each gene is transcribed using only one strand of the double strand DNA
 - **Upstream** means an area of DNA before the gene start site
 - **Downstream** refers to an area after the gene start site
 - There are three stages of transcription: initiation, elongation, and termination
 - These stages slight differ between prokaryotes and eukaryotes

EXAMPLE:

