

Chapter 10 Focus Questions and Vocabulary  
Honors Biology

**Chapter 10**

- Explain how the experiments of Fredrick Griffith and Alfred Hershey and Martha Chase were able to show that DNA is the genetic material. (10.1)
- What are DNA and RNA molecules made of? How is DNA different from RNA? (10.2)
- How do we know that DNA is double stranded? (10.3)
- Briefly explain how DNA is replicated. (10.4-10.5)
- What is the purpose of DNA? What to processes allow it to complete that purpose? (10.6-10.7)
- Briefly describe transcription. (10.9)
- Breifly describe translation. (10.11-10.14)
- What are two types of mutations that can change a gene? (10.16)
- How does a virus reproduce? (10.17)
- How does the HIV virus reproduce? (10.20)
- Explain the three ways bacteria can transfer DNA. (10.22)

**Chapter 10**

AIDS

anticodon

bacteriophage

capsid

codon

DNA ligase

DNA polymerase

double helix

exon

HIV

intron

lysogenic cycle

lytic cycle

messenger RNA (mRNA)

mutagen

mutation

nucleotide

plasmid

polynucleotide

retrovirus

reverse transcriptase

ribosomal RNA (rRNA)

RNA polymerase

RNA splicing

semiconservative model

transcription

transfer RNA (tRNA)

translation

triplet code

viroid

virus