

Genetics Test Review
Chapters 10-12
Honors Biology

1. Explain the importance of the following scientists.
 - Watson and Crick
 - Hershey and Chase
 - Franklin
 - Griffith
 - Chargaff
2. Explain and draw a picture of the two types of virus life cycles.
3. Describe the important structural features of DNA.
4. What are the parts of a nucleotide?
5. Explain the function of the following enzymes.
 - DNA Helicase
 - DNA Polymerase
 - Ligase
 - RNA Polymerase
6. What is the Central Dogma of biology?
7. Explain and draw the process of transcription.
8. Explain and draw the process of translation.
9. Explain the impact the following types of mutations would have on the cell.
 - Base Substitution
 - Insertion
 - Deletion
10. Explain the ways bacteria can transmit information to each other.
11. Explain the role of each of the following materials from the DNA extraction lab.
 - Soap
 - Ethanol
 - Lysis Buffer