

## **CHAPTER 21 WORKSHEET & READING GUIDE– DNA AND BIOTECHNOLOGY**

1. Describe the structure of DNA including the letters of the four bases.
2. Describe the overall function of DNA replication in your own words.
3. When and where in the cell does DNA replication occur?
4. What proteins assist in the process of DNA replication?
5. What do the words semi-conservative mean for DNA replication?
6. Describe the structure of RNA including the letters of the four bases.
7. What is the difference between mRNA, tRNA, and rRNA?
8. Describe the overall function of RNA transcription in your own words.
9. What proteins assist in the process of RNA transcription?
10. When and where in the cell does RNA transcription occur?
11. What is the relationship between RNA polymerase and the promoter?