



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Due: \_\_\_\_\_

### Unit 5: Molecular Genetics - Vocabulary

**Directions:** Please complete the following vocabulary tables by checking the box that indicates your knowledge of the term. If you check that you *Know it and can Explain it*, then you need to define the term in the last column. If you check the *Heard it/Seen it before* or *No Clue* column, then you need to record the definition when you encounter that word during the unit.

#### Chapter 8: From DNA to Proteins

Term	<i>Know it and can Explain it</i>	<i>Heard it or Seen it before</i>	No Clue	Definition and Notes
1. DNA				
2. Bacteriophage				
3. Nucleotide				
4. Double Helix				
5. Base Pairing Rules				
6. Replication				
7. DNA Polymerase				
8. Central Dogma				
9. Ribonucleic Acid (RNA)				
10. Transcription				

Term	<i>Know it and can Explain it</i>	<i>Heard it or Seen it before</i>	No Clue	Definition and Notes
11. RNA Polymerase				
12. Messenger RNA (mRNA)				
13. Ribosomal RNA (rRNA)				
14. Transfer RNA (tRNA)				
15. Translation				
16. Codon				
17. Stop Codon				
18. Anticodon				
19. Promoter				
20. Exon				
21. Intron				
22. Mutation				
23. Point Mutation				
24. Frameshift Mutation				

<b>Term</b>	<i>Know it and can Explain it</i>	<i>Heard it or Seen it before</i>	No Clue	<b>Definition and Notes</b>
25. Mutagen				

### Chapter 9: Frontiers of Biotechnology

<b>Term</b>	<i>Know it and can Explain it</i>	<i>Heard it or Seen it before</i>	No Clue	<b>Definition and Notes</b>
26. Restriction Enzyme				
27. Gel Electrophoresis				
29. Polymerase Chain Reaction				
30. Primer				
31. DNA Fingerprint				
32. Probability				
33. Clone				
34. Genetic Engineering				
35. Recombinant DNA				
36. Plasmid				
37. Transgenic				
38. Genomics				

<b>Term</b>	<i>Know it and can Explain it</i>	<i>Heard it or Seen it before</i>	No Clue	<b>Definition and Notes</b>
39. Gene Sequencing				
40. Human Genome Project				
41. Bioinformatics				
42. DNA Microarray				
43. Proteomics				
44. Genetic Screening				
45. Gene Therapy				