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## Chapter 8 Concept Review

**Directions**: Answer the following questions using your notes and textbook 1. experimented with the bacteria that cause pneumonia. 2. S form or bacteria killed with mice unaffected 3. Griffith concluded that a transforming material passed from \_\_\_\_ S bacteria to R bacteria, making them deadly. 4. Avery identifies \_\_\_\_\_ as the transforming principle 5. Added enzymes to break down DNA- transformation to occur. Concluded \_\_\_\_\_ was transforming factor 6. Hershey and Chase confirm that DNA is the \_\_\_\_\_ material 7. Studied viruses that infect bacteria ( 8. Concluded phages \_\_\_\_\_ had entered bacteria but \_\_\_\_\_ had not. Genetic material must be DNA 9. DNA is composed of four types of \_\_\_\_\_\_ 10. DNA is long polymer composed of called nucleotides. 11. Each \_\_\_\_\_ has three parts a. \_\_\_\_\_ group b. Ring-shaped sugar called c. \_\_\_\_\_-containing base 12. In 1950 Erwin Chargaff changed thinking by analyzing DNA of several different organisms. Found amount of adenine equals thymine and amount of cytosine equals amount of guanine. \_\_\_\_ = \_\_\_ and \_\_\_ = \_\_\_ (called \_\_\_\_ rules) 13. Rosalind Franklin and Maurice Wilkins used \_\_\_\_ - \_\_\_ crystallography and suggested DNA \_\_\_\_\_ shape 14. In 1953 \_\_\_\_\_ and \_\_\_\_ published their DNA modelin a paper in the journal Nature 15. always pair in the same way

16	rules- A with T and C with G	
17	creates exact copies of itself during the cell cycle	
18. I	Replication is and	
19	converts DNA message into intermediate molecule, called RNA	
20. <sub>_</sub> poly	interprets an RNA message into string of amino acids, called peptide (protein)	
21. l	Replication and Transcription in Translation occurs in	
22. I	RNA differs from DNA in significant ways	
	a in RNA is ribose not deoxyribose	
	b. RNA has the base in place of thymine	
	c. RNA is stranded not double	
23. l	Using one strand of DNA, strand of RNA is produced	
24. /	Amino acids are coded by base sequences	
25. <sup>-</sup>	Translation converts mRNA messages into	
26. /	A is a sequence of three nucleotides that codes for an amino acid.	
27. /	Amino acids are linked to become a	
28	site of protein synthesis	
29	- a change in an organism's DNA	
30. l	Mutations that affect a single gene usually happen during	
31. ľ	Mutations that affect group of genes or chromosome happen during	
32. l	Mutations may or may not affect	
33. (	Chromosomal affect many genes and have big affect on organism	
34. l	Mutations in body cells do not affect	
35. l	Mutations in cells can be harmful or beneficial to offspring.	