DNA Structure and Replication Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What does DNA stand for?
2. What type of sugar is found in DNA?
3. What type of bond holds the bases in DNA together?
4. What is the term for a double ringed base?
5. Give 2 examples of this type of base.
6. What is the term for a single ringed base?
7. Give 2 examples of this type of base.
8. What is the shape of a DNA molecule?
9. What are the “rungs” of the DNA molecule?
10. What is the “backbone” of the DNA molecule?
11. What is the monomer of DNA?
12. What Guanine ONLY bond with?
13. What does Thymine ONLY bond with?
14. What is the first step to DNA Replication?
15. What type of enzyme matches up free floating nucleotides to the original strand?
16. What is the term for the DNA strand that acts as a pattern to the newly synthesized DNA?
17. What is the end product of DNA replication?
18. What base complements adenine?
19. Give the complementary DNA strand to the DNA below.

ATCGGCGTAGCGTAAGCTACGTAGCTTTAGC

1. Where does DNA replication occur in the cell?
2. During which phase of the cell cycle does DNA replicate itself?
3. Who were the 4 scientists to discover the structure of DNA?