12-2 DNA Replication Homework Questions

1. What exactly is DNA replication?

2. Why is replication needed?

3. Explain why DNA strands are called “complementary”.

4. Explain how you could construct a complete double helix DNA molecule from just one single DNA strand.

5. If one strand of a DNA sequence reads TTAGACCGATAC, what would the complementary strand be?

6. How does replication occur in eukaryotic cells?

7. What enzyme helps replication?

8. DNA polymerase has an additional job during DNA replication, what is it?

TURN THE PAGE OVER FOR A DIAGRAMING EXCERSICE!!
9. Diagram DNA replication, make sure to label the “old” and “new” DNA strands. Use color pencils or markers in order to make it very clear which strand is the old and which is the new.