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| 1. What is DNA replication?  2. When does DNA replication occur?  3. Why does DNA replicate?  4. What is the first step of DNA replication?  5. What is the second step of DNA replication?  6. What is the third step of DNA replication?  7. Why can DNA be copied using only one of the strands? | 8. Which nitrogenous base pairs with adenine?  9. Which nitrogenous base pairs with cytosine?  10. Which nitrogenous bases are purines?  11. Which nitrogenous bases are pyrimidines?  12. What is the complimentary strand of AACTGCTATC?  13. What is the complimentary strand of GCTAACTGGC?   1. What is the complimentary strand of TATCGGACGC? |

For the following, mark as either True (T) or False (F). If false, correct the underlined portion to make the statement true.

1. \_\_\_\_\_T or F - Cytosine, guanine, thymine and adenine are referred to as **phosphates**.
2. \_\_\_\_\_T or F - DNA is in the shape of a **helix**.
3. \_\_\_\_\_T or F - A nucleotide is made up of a sugar, phosphate and **two nitrogen bases**.
4. \_\_\_\_\_T or F - DNA Replication is performed prior to **cell division**.
5. \_\_\_\_\_T or F - Adenine always pairs with **guanine**.
6. \_\_\_\_\_T or F - Complementary base pairing matches up complementary **sugars**.
7. \_\_\_\_\_T or F - The sides of the DNA molecule are made up of repeating **nitrogen bases and sugars**.
8. \_\_\_\_\_T or F - The letters that make up the DNA molecule code for **genes**.
9. \_\_\_\_\_T or F - Replication results in two strands of DNA, each of which has **half of the original strand**.

**DNA Replication Review 1/11/13 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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