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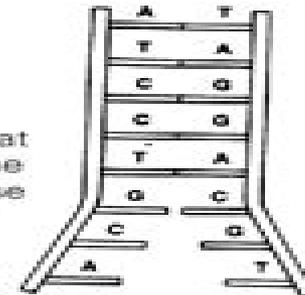
Period: _____

DNA Replication Practice

Directions: Below are the 3 steps in DNA replication. Follow the directions for each step and then answer the questions below.

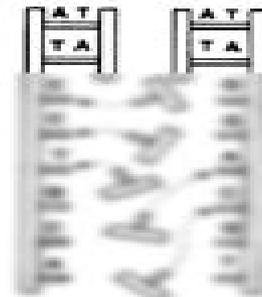
1. -What is happening to the DNA molecule in the figure?
(Explain the first step in DNA replication)

Before DNA can be replicated, the double stranded molecule must be "unzipped" into two single strands. DNA has four bases called adenine (A), thymine (T), cytosine (C) and guanine (G) that form pairs between the two strands. Adenine only pairs with thymine and cytosine only binds with guanine. In order to unwind DNA, these interactions between base pairs must be broken. This is performed by an enzyme known as DNA helicase. DNA helicase disrupts the hydrogen bonding between base pairs to separate the strands into a Y shape known as the replication fork. This area will be the template for replication to begin.



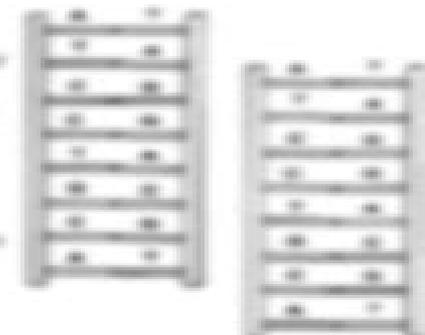
2. -What happens to the DNA molecule during the second step of DNA replication?

The leading strand is the strand to replicate. Once the DNA strands have been unzipped, a single piece of RNA called a primer binds to the 3' end of one of the strands. The primer strand acts as the starting point for replication. Primers are generated by the enzyme DNA primase.



3. -What happens during the third step of DNA replication?

Enzymes known as DNA polymerases are responsible for creating the new strand by a process called elongation. There are five different types of DNA polymerases in bacteria and human cells. In bacteria such as *E. coli*, polymerase III is the main replication enzyme, while polymerases I, II, IV and V are responsible for error checking and repair. DNA polymerase III binds to the strand at the site of the primer and begins adding new base pairs complementary to the strand during replication. In eukaryotic cells, polymerases alpha, delta, and epsilon are the primary polymerases involved in DNA replication. Because replication proceeds in the 3' to 5' direction on the leading strand, the newly formed strand is continuous.



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