

DNA Replication Webquest

Answer all questions in a **DIFFERENT COLOR** and **IN YOUR OWN WORDS**.

Watch the animations and answer these questions:

http://www.wiley.com/college/pratt/0471393878/student/animations/dna_replication/index.html

1. What is DNA replication? **The process where an entire double-stranded DNA is copied to produce a second, identical DNA double helix.**
2. How does DNA replicate? (highlight one) A. Conservatively **B. Semi-conservatively** C. Dispersively
3. Semi-conservative means **When each resulting DNA double helix retains one strand of the original DNA**
4. Watch section 3 in its entirety. Then define the function of the following players in DNA replication..... If needed, go back and watch it again.
 - a. Polymerase - **extends the DNA chain**
 - b. Helicase - **unwinds the DNA double helix into two individually strands**
 - c. Ligase - **links the short DNA chains**
 - d. Primase - **creates RNA primers**
 - e. SSB - **prevents reannealing**
5. What is the first step of DNA replication? **The two double helix strands are unwound and separated from each other by the helicase enzyme.**
6. How does the DNA get unwind and stay unwind? **Its get unwinded by the Helicase.**
7. What is the replication fork? **The point where the DNA is separated into single strands, and where new DNA will be synthesized. The area where the parental DNA strands are copied to create two daughter strands.**
8. In what direction can DNA polymerase make new strand of DNA? **It starts at the 3' end of the RNA primer and creates a new strand in the 5' to 3' order.**
9. In other words, DNA polymerase adds nucleotides to the '3 end of the DNA strand.
10. What is needed before DNA polymerase can start building a new DNA strand? **A template is always needed. They can't start making a DNA chain from scratch, only from the 3' end of the primer.**
11. Contrast the leading and lagging strands. **The leading strand is single DNA strand and is replicated in the 3' to 5' direction. The lagging strand one of two strands of the DNA at the replication fork and needs a slight delay. It is also synthesized as a series of Okazaki fragments.**
12. The short pieces of DNA formed on the lagging strand are called... **Okazaki fragments.**

Recombinant Dna Webquest Answers Key

Clifford Grobstein



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