

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

James Greene



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Table of Contents Recombinant Dna Webquest Answers Key

1. Understanding the eBook Recombinant Dna Webquest Answers Key
 - The Rise of Digital Reading Recombinant Dna Webquest Answers Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Recombinant Dna Webquest Answers Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Recombinant Dna Webquest Answers Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Recombinant Dna Webquest Answers Key
 - Personalized Recommendations
 - Recombinant Dna Webquest Answers Key User Reviews and Ratings
 - Recombinant Dna Webquest Answers Key and Bestseller Lists

5. Accessing Recombinant Dna Webquest Answers Key Free and Paid eBooks
 - Recombinant Dna Webquest Answers Key Public Domain eBooks
 - Recombinant Dna Webquest Answers Key eBook Subscription Services
 - Recombinant Dna Webquest Answers Key Budget-Friendly Options
6. Navigating Recombinant Dna Webquest Answers Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Recombinant Dna Webquest Answers Key Compatibility with Devices
 - Recombinant Dna Webquest Answers Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Recombinant Dna Webquest Answers Key
 - Highlighting and Note-Taking Recombinant Dna Webquest Answers Key
 - Interactive Elements Recombinant Dna Webquest Answers Key
8. Staying Engaged with Recombinant Dna Webquest Answers Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Recombinant Dna Webquest Answers Key
9. Balancing eBooks and Physical Books Recombinant Dna Webquest Answers Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Recombinant Dna Webquest Answers Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Recombinant Dna Webquest Answers Key
 - Setting Reading Goals Recombinant Dna Webquest Answers Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Recombinant Dna Webquest Answers Key
 - Fact-Checking eBook Content of Recombinant Dna Webquest Answers Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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