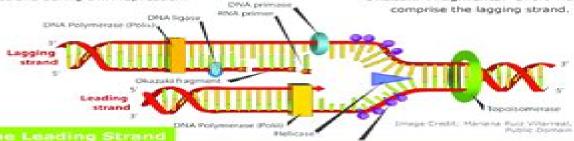
### DNA REPLICATION

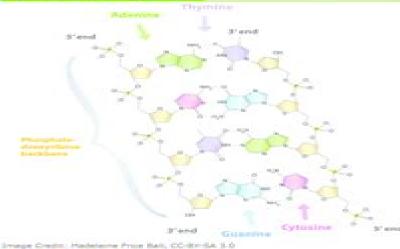
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#### **Big Picture**

DNA replication occurs during the 5 phase (synthesis phase) in the cell cycle for each strand of the double helix parent DNA. As cell divide and replicate, more DNA must be made. Because each complementary strand run in different directions, the process of DNA replication works differently for each strand.

- DNA Replication: The process in which a cell's entire DNA is opplied.
- DNA Helicase: The enzyme that breaks the hydrogen bonds holding the two DNA strands together during DNA replication.
- DNA Polymerase: The enzyme that builds a new DNA strand during DNA replication.
- Leading Strand: The DNA strand that DNA polymerase constructs in the 5' -- 3' direction.
- Lagging Strand: The DNA strand at the opposite side of the replication fork from the leading strand.
- Primase: An enzyme that builds a short RNA primer on the lagging strand during DNA replication.
- Okazaki Fragments: Short fragments of DNA that comprise the lagging strand.





In DNA replication, the parent DNA strand must be unwounded by DNA helicase, which breaks the hydrogen bonds holding the two separate strands together. Proteins holding the DNA strand keep the strand from winding back together, and an enzyme called topoisomerase relieves the tension that causes the DNA to twist into a helix structure.

DNA polymerase creates the complementary DNA strand to the exposed base pairs of the painent DNA.

Thymine, and cytosine only with quantite

Replication continues until a new DNA has been made, consisting of the new complementary strand and the old strand.

Each DNA stand has a "direction," The 5' (five prime) end has a terminal phosphate group, and the 3" (three prime) end has a -OH group.

DNA polymerase only creates the new DNA strand in the 5' -> 3' direction, so it works differently depending on which strand it is on. On the leading strand, which runs from 5' --3', DNA polymerase will work continuously as the replication fork grows.

For the other strand of the original DNA template, called the lagging strand, DNA polymerase cannot work continuously in the 3' - 5' direction. So before DNA polymerase creates the complimentary strand, primase builds a short RNA primer. DNA polymerase then works on this small region to create DNA in the 5' - 3' direction. As RNA degrades, the new DNA strand takes its place.

The process then repeats until the end of the lagging strand is reached. These synthesized fragments are called Okazakii fragments.



## **Modern Biology Study Guide Dna Replication**

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### **Table of Contents Modern Biology Study Guide Dna Replication**

- 1. Understanding the eBook Modern Biology Study Guide Dna Replication
  - The Rise of Digital Reading Modern Biology Study Guide Dna Replication
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Modern Biology Study Guide Dna Replication
  - 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 Modern Biology Study Guide Dna Replication
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Modern Biology Study Guide Dna Replication
  - Personalized Recommendations
  - Modern Biology Study Guide Dna Replication User Reviews and Ratings
  - Modern Biology Study Guide Dna Replication and Bestseller Lists
- 5. Accessing Modern Biology Study Guide Dna Replication Free and Paid eBooks
  - Modern Biology Study Guide Dna Replication Public Domain eBooks
  - Modern Biology Study Guide Dna Replication eBook Subscription Services
  - Modern Biology Study Guide Dna Replication Budget-Friendly Options
- 6. Navigating Modern Biology Study Guide Dna Replication eBook Formats

- o ePub, PDF, MOBI, and More
- Modern Biology Study Guide Dna Replication Compatibility with Devices
- Modern Biology Study Guide Dna Replication Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modern Biology Study Guide Dna Replication
  - Highlighting and Note-Taking Modern Biology Study Guide Dna Replication
  - Interactive Elements Modern Biology Study Guide Dna Replication
- 8. Staying Engaged with Modern Biology Study Guide Dna Replication
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - o Following Authors and Publishers Modern Biology Study Guide Dna Replication
- 9. Balancing eBooks and Physical Books Modern Biology Study Guide Dna Replication
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Modern Biology Study Guide Dna Replication
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Modern Biology Study Guide Dna Replication
  - Setting Reading Goals Modern Biology Study Guide Dna Replication
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modern Biology Study Guide Dna Replication
  - Fact-Checking eBook Content of Modern Biology Study Guide Dna Replication
  - 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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