



Biology

DNA Replication: Paper Clip Activity

Name _____ Per. _____ Date _____

Partner: _____

Partner: _____

Learning Target: DNA Structure & Replication

I Can... Create a simulated gene segment of DNA and take the segment through the process of replication.

I Will...

- Create a simulated primary segment of a gene representing the nucleotide types within the sequence with assigned colored paperclips.
- Predict and create a complementary strand of DNA using the base pairing rules.
- Unzip and replicate the DNA gene segment explaining the steps of the process.
- Infer and predict what may result from creating an alteration in the nucleotide sequence.

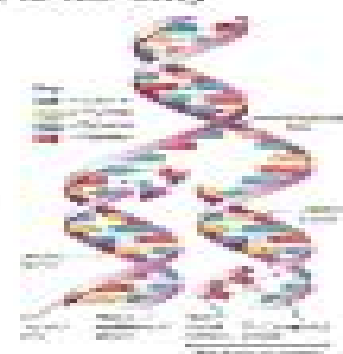
Quick Review:

- Each DNA molecule has a unique structure that makes it different from other DNA molecules (Remember – A chromosome is condensed DNA and segments of DNA are genes.)
- This difference occurs because the sequence of A, T, C, and G vary from one molecule and gene segment to another.



What You Need to Know About DNA Replication:

- To "replicate" DNA means to produce an exact copy of itself. DNA is the only known molecule that can do this regularly – RNA has been known to replicate under laboratory conditions.
- DNA is able to make an exact replica of itself because of the base pairing characteristics stressed earlier (A with T and C with G).
- When DNA makes a duplicate molecule of itself, the two strands unwind.
- After the two strands have pulled apart, new bases (A, T, C, & G) as well as new sugar and phosphate units come into place according to the base pairing rules.
- A comes in opposite of T, and C is opposite of G.



Dna Replication Paperclip Activity Answers

Norman Herr



Dna Replication Paperclip Activity Answers:

The Sourcebook for Teaching Science, Grades 6-12 Norman Herr, 2008-08-11 The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences

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Table of Contents Dna Replication Paperclip Activity Answers

1. Understanding the eBook Dna Replication Paperclip Activity Answers
 - The Rise of Digital Reading Dna Replication Paperclip Activity Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Dna Replication Paperclip Activity Answers
 - 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 Dna Replication Paperclip Activity Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dna Replication Paperclip Activity Answers
 - Personalized Recommendations
 - Dna Replication Paperclip Activity Answers User Reviews and Ratings
 - Dna Replication Paperclip Activity Answers and Bestseller Lists
5. Accessing Dna Replication Paperclip Activity Answers Free and Paid eBooks
 - Dna Replication Paperclip Activity Answers Public Domain eBooks
 - Dna Replication Paperclip Activity Answers eBook Subscription Services
 - Dna Replication Paperclip Activity Answers Budget-Friendly Options
6. Navigating Dna Replication Paperclip Activity Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Dna Replication Paperclip Activity Answers Compatibility with Devices
 - Dna Replication Paperclip Activity Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dna Replication Paperclip Activity Answers
 - Highlighting and Note-Taking Dna Replication Paperclip Activity Answers
 - Interactive Elements Dna Replication Paperclip Activity Answers
8. Staying Engaged with Dna Replication Paperclip Activity Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Dna Replication Paperclip Activity Answers
- 9. Balancing eBooks and Physical Books Dna Replication Paperclip Activity Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dna Replication Paperclip Activity Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dna Replication Paperclip Activity Answers
 - Setting Reading Goals Dna Replication Paperclip Activity Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dna Replication Paperclip Activity Answers
 - Fact-Checking eBook Content of Dna Replication Paperclip Activity Answers
 - 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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