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INTRODUCTION

This activity explores the research shown in the short film [The Double Helix](#), which tells the story of how DNA's structure was discovered.

PROCEDURE

Use the information in the film to answer the following questions in the spaces provided. You may want to use the film's transcript as a reference.

1. In the 1950s, many scientists thought that proteins, not DNA, carried genetic information.
 - a. Why did proteins seem better suited for storing genetic information?

Because there are many different types of proteins for each function of a cell.

- b. Oswald Avery's experiments with bacteria led him and other scientists to propose the following claim: **DNA, not proteins, carries genetic information.** Complete the table below to explain how Avery's experiments supported this claim.

Claim: DNA, not proteins, carries genetic information.
Evidence: (List three pieces of evidence for the claim from Avery's experiments.) <ol style="list-style-type: none"> 1. Avery isolated a substance that transferred a specific trait from one bacterium to another 2. Protein digesting enzymes didn't destroy the transforming principle 3. DNA digesting enzymes did destroy the transforming principle
Reasoning: (In full sentences, explain how each piece of evidence supports the claim.) <p>The evidence supports the claim that DNA carries genetic information because the substance that Avery isolated shows that it transferred one trait to another which led to the conclusion that DNA carries genetic information. The DNA digesting enzyme destroyed the transforming principle but the protein digesting enzyme didn't. This also shows that proteins don't carry genetic information.</p>

2. What are the chemical components of a DNA nucleotide? _____
 - a. a phosphate, a sugar, and a nitrogenous base
 - b. a phosphate, a nitrogenous base, and an amino acid
 - c. a nitrogenous base, a sugar, and an amino acid
 - d. a nitrogenous base, ATP, and a sugar
3. The two strands of a DNA molecule are held together by hydrogen bonds between the: _____
 - a. phosphate groups on each strand
 - b. nitrogenous bases on each strand
 - c. bases and the phosphate-sugar backbone
 - d. carbon atoms in the sugars

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Table of Contents Study Guide Pltw Psbs 1st 3rd Quarter Eqt

1. Understanding the eBook Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - The Rise of Digital Reading Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - 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 Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Personalized Recommendations
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt User Reviews and Ratings
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt and Bestseller Lists
5. Accessing Study Guide Pltw Psbs 1st 3rd Quarter Eqt Free and Paid eBooks
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt Public Domain eBooks
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt eBook Subscription Services
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt Budget-Friendly Options
6. Navigating Study Guide Pltw Psbs 1st 3rd Quarter Eqt eBook Formats

- ePub, PDF, MOBI, and More
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt Compatibility with Devices
 - Study Guide Pltw Psbs 1st 3rd Quarter Eqt Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Highlighting and Note-Taking Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Interactive Elements Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 8. Staying Engaged with Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 9. Balancing eBooks and Physical Books Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Setting Reading Goals Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - Fact-Checking eBook Content of Study Guide Pltw Psbs 1st 3rd Quarter Eqt
 - 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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