



Name: _____

Date: _____

Student Exploration: DNA Profiling

Vocabulary: DNA polymerase, DNA profiling, gel electrophoresis, gene, mutation, non-coding region, polymerase chain reaction, primer, short tandem repeat

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

In 1985, Darryl Hunt was convicted of murder. While Hunt was in jail, a new method for analyzing DNA evidence was invented. The DNA evidence on the victim did not match Hunt's DNA but did match that of another prisoner. After 19 years spent behind bars, Hunt was finally declared innocent and released from prison in 2004.

1. DNA is used to tell people apart. What aspects of DNA do you think make this possible?

I think that DNA can be used to tell people apart based on human's DNA sequences or the lengths of repeated regions of DNA. _____

2. What are some possible uses for technology that can identify people based on their DNA?

Some possible uses for technology that can identify people based on their DNA could be fingerprinting or cloning. _____

Gizmo Warm-up

DNA profiling does not just compare people's entire genome side by side. Instead, a very particular part of the DNA is compared. In the *DNA Profiling* Gizmo you will learn about the differences in DNA that make DNA profiling possible and you will use that knowledge to design your own DNA profiling test.



Click on the crime lab in the **Forensic training** section. You are looking at a strand of DNA. DNA contains **genes** and **non-coding regions** between genes. Click on **Non-coding A**.

1. You are looking at a portion of the non-coding A section for three different people. Are these sections the same or different? Explain. _____

They are different because the number of sequences called STRs varies between the 3 people. _____

2. Click **Previous** then click on **Gene A**. Are there differences in gene A for the three people?

Explore Learning Gizmo Answers To Dna Fingerprinting

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Mike Jess'.

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Table of Contents Explore Learning Gizmo Answers To Dna Fingerprinting

1. Understanding the eBook Explore Learning Gizmo Answers To Dna Fingerprinting
 - The Rise of Digital Reading Explore Learning Gizmo Answers To Dna Fingerprinting
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answers To Dna Fingerprinting
 - 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 Explore Learning Gizmo Answers To Dna Fingerprinting
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answers To Dna Fingerprinting
 - Personalized Recommendations
 - Explore Learning Gizmo Answers To Dna Fingerprinting User Reviews and Ratings

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