



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?

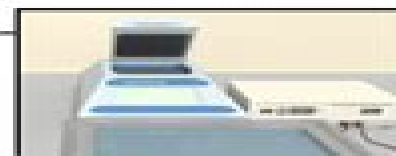
I think that DNA can be used to tell people apart based on human's DNA sequences or the lengths of repeated regions of DNA. \_\_\_\_\_

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

**Christopher Lampton**



## Explore Learning Gizmo Answers To Dna Fingerprinting:

DNA Fingerprinting: Advancements and Future Endeavors Hirak Ranjan Dash, Pankaj Shrivastava, Braja Kishore Mohapatra, Surajit Das, 2018-11-01 This book describes the basics and various applications of DNA fingerprinting including in actual case studies. The book is divided into four modules: Module 1 Basics of DNA Fingerprinting, Module 2 Applications of DNA Fingerprinting, Module 3 DNA Fingerprinting Case Studies, and Module 4 Future of DNA Fingerprinting. Each module consists of 4 to 5 chapters written by reputed researchers, academics, and forensic scientists from around the globe. The respective chapters cover e.g. related fields, the tools and techniques used, various genotyping kits, real world case studies, ancient DNA, and wild life forensics, molecular diagnosis of human diseases, legal aspects, microbial forensics, and the economics of the DNA fingerprinting technique. The book offers a practical guide for professionals, graduate and post graduate students in the fields of Forensic Science, Medicine, Genetics, Anthropology, Microbiology, and Zoology. It also serves as a useful reference resource summarizing major technological advances in the field of DNA fingerprinting, the problems faced in this field of science, and possible new solutions to these problems. Presently, DNA fingerprinting is utilized in solving the majority of criminal cases, as such the book is also helpful for investigating agencies as it includes representative case studies.

DNA Profiling and DNA Fingerprinting Jörg Epplen, Thomas Lubjuhn, 2012-12-11 This manual presents practical approaches to using DNA fingerprinting and genetic profiling to answer a variety of biological and medical questions. It provides detailed methodology for setting up and performing experiments and evaluating results. Extensive troubleshooting tips, helpful hints, and advice for daily practice are also included. This will be a useful guide for scientists and researchers engaged in genetic identification and relationship analyses.

*DNA Fingerprinting*, 1995 **DNA Fingerprinting** Lorne T. Kirby, 1990-06-18 DNA fingerprinting is a revolutionary technique that enables law enforcement agencies, diagnostic laboratories, and research scientists to identify minute pieces of tissue to determine parentage and other biological family relationships. This is a study of its applications.

DNA Fingerprinting Christopher Lampton, 1991 Examines the procedures and uses of DNA fingerprinting as a method of identification in forensic science.

*Fuzzy Forensics* Lindsey E. Carmichael, 2014-09-05 A wild elk and her calf behind the fences of a Canadian game ranch. Endangered parrots taken from the wild and sold as pets. African elephants butchered for the ivory in their tusks. In FUZZY FORENSICS DNA Fingerprinting Gets Wild by LE Carmichael PhD you'll discover how witnesses, conservation officers, veterinarians, and scientists join forces to solve countless crimes against wildlife all around the world. Explore real cases that take you from the crime scene to the laboratory to the courtroom. See how DNA fingerprints are used to identify endangered species, match animal parents with their wild babies, and trace a furry victim's country of origin. Become a wildlife detective by tackling four crime busting experiments. Containing vivid photos, interviews with experts, and hair raising facts, FUZZY FORENSICS will convince you that scientifically the only difference between solving human crimes and animal ones is the fur.

**Fuzzy Forensics** Lindsey E.

Carmichael,2015-07-01 A wild elk and her calf held behind the fences of a Canadian game ranch Endangered parrots captured in the wild and sold as pets African elephants butchered for the ivory in their tusks In Fuzzy Forensics DNA Fingerprinting Gets Wild you ll discover how witnesses conservation officers veterinarians and scientists join forces to solve countless crimes against wildlife all around the world Explore real cases that take you from the crime scene to the laboratory to the courtroom See how scientists use DNA fingerprints to identify endangered species match wild parents with their babies or trace an animal victim s home country Become a wildlife detective by tackling four crime busting experiments Containing vivid images interviews with experts and tons of hair raising facts Fuzzy Forensics will convince you that the only difference between solving human crimes and wildlife ones is the fur DNA Fingerprinting M. Krawczak,J.

Schmidtke,2000-01-01 DNA Fingerprinting: State of the Science Sergio D. Pena,1993-07-01 DNA fingerprinting had a well defined birthday In the March 7 1985 issue of Nature Alec Jeffreys and coworkers described the first development of multilocus probes capable of simultaneously revealing hypervariability at many loci in the human genome and called the procedure DNA fingerprinting It was a royal birth in the best British tradition In a few months the emerging technique had permitted the denouement of hitherto insoluble immigration and paternity disputes and was already heralded as a major revolution in forensic sciences In the next year October 1986 DNA fingerprinting made a dramatic entree in criminal investigations with the Enderby murder case whose story eventually was turned into a best selling book The Blooding by Joseph Wambaugh Today DNA typing systems are routinely used in public and commercial forensic laboratories in at least 25 different countries and have replaced conventional protein markers as the methods of choice for solving paternity disputes and criminal cases Moreover DNA fingerprinting has emerged as a new domain of intense scientific activity with myriad applications in just about every imaginable territory of life sciences The Second International Conference on DNA Fingerprinting which was held in Belo Horizonte Brazil in November of 1992 was a clear proof of this **DNA**

**Fingerprinting: Approaches and Applications** G. Dolf,2013-03-08 Although DNA fingerprinting is a very young branch of molecular genetics being barely six years old its recent impact on science law and politics has been dramatic The application of DNA fingerprinting to forensic and legal medicine has guaranteed a high public profile for this technology and indeed scarcely a week goes by without the press reporting yet another crime successfully solved by molecular genetics Less spectacularly but equally importantly DNA typing methods are steadily diffusing into an ever wider set of applications and research fields ranging from medicine through to conservation biology To date two DNA fingerprinting workshops have been held in the UK one in 1988 organised by Terry Burke at the University of Leicester and the second in 1989 at the University of Nottingham coordinated by David Parkin In parallel with these workshops which have provided an important focus for researchers Bill Amos and Josephine Pemberton in Cambridge have established an informal newsletter Fingerprint News which is playing a major role as a forum for DNA fingerprinters By 1989 it was clear that the field had broadened sufficiently

to warrant a full international meeting As a result Gaudenz Dolf took on the task of organising the first of what I hope will be many International Symposium of DNA Fingerprinting held at Bern during 1st 3rd October 1990 The success of the meeting can be judged from the remarkable attendance with 270 delegates from no less than 30 countries

Ignite the flame of optimism with is motivational masterpiece, **Explore Learning Gizmo Answers To Dna Fingerprinting** . In a downloadable PDF format ( PDF Size: \*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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