

Name: Lee Arthur

Date:

Student Exploration: DNA Fingerprint Analysis

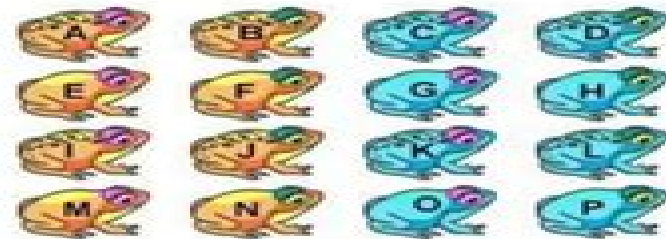
INQ: /20 COM: /5

Vocabulary: codon, DNA, DNA fingerprint, genotype, identical twins, nitrogenous base, phenotype, trait

Gizmo Warm-up

Most of an organism's **traits**, or characteristics, are coded for by **DNA**. Traits are determined by a unique sequence of **nitrogenous bases** in the DNA molecule.

Except for identical twins, the order of every individual's nitrogenous bases is unique. Scientists use this fact when studying **DNA fingerprints**— patterns of bands made from analyzing a strand of DNA. In the *DNA Fingerprint Analysis Gizmo™*, you will analyze DNA fingerprints of frogs.



1. Select the **POPULATION** tab. What are the three main traits that vary between the frogs?

The frog's skin colour, eye colour, and presence of spots. [1 INQ]

2. Which frog would you expect to have the most similar DNA to frog A? Why? I would expect Frog I to have the most similar DNA because just like frog A, it possesses yellow skin, pink eyes and spots. [1 INQ]

Activity A:

Identical twins

Get the Gizmo ready:

- Select the **FIND THE TWINS** tab.



Question: How are DNA fingerprints used to analyze relationships?

1. **Observe:** Look at the three frogs on the **TWINS** tab. How does their appearance compare?

They all have yellow skin, pink eyes, and spots. [1 INQ]

2. **Predict:** What do you expect the DNA fingerprints of the three frogs to look like?

Student Exploration Dna Fingerprint Analysis Gizmo Answers

Patrick J. Lincoln, Jim Thomson



Student Exploration Dna Fingerprint Analysis Gizmo Answers:

DNA Fingerprinting Lorne T. Kirby, 1993-09-23 DNA fingerprinting is a revolutionary technique that enables scientists to match minute tissue samples and facilitates scientific studies on the composition reproduction and evolution of animal and plant populations As a tool for positive identification of criminals it plays a particularly important role in forensic science The first book to be published in the field DNA Fingerprinting is a practical guide to basic principles and laboratory methods as applied to a variety of fields including forensic analysis paternity testing medical diagnostics animal and plant sciences and wildlife poaching *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 finger printing to forensic and legal medicine has guaranteed a high public profile for this technology and indeed scarcely a week goes by with out 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 co ordinated 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

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 in 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 Analysis William Hunter, 2014-09-02 A flake of skin a strand of hair a fleck of saliva a drop of blood everywhere we go we leave behind bits of ourselves that are as unique as fingerprints Each cell contains genetic material called DNA which holds information that scientists can use to learn about the person who left those cells behind In the past twenty five years researchers have made significant advances in all disciplines of science including the study of genetics As science has leapt forward the effect on forensics has been remarkable New knowledge of DNA has dramatically changed the amount of information available to forensic scientists at the scene of a crime opening doors that were never open before

Careers in DNA Analysis Sarah Sawyer, 2008-01-15 This book presents background information job descriptions education plans job search tips and career advice for people interested in DNA analysis including jobs in criminal justice human health and pure biological research Chapter Titles DNA analysis Real life DNA analysts at work Laying the educational groundwork in high school College education training and jobs Alternative and future careers in DNA analysis

DNA Profiling and DNA Fingerprinting Jörg Epplen, Thomas Lubjuhn, 1999-05-01 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 M. Krawczak, J. Schmidtke, 2020-08-26 The book is primarily concerned with DNA fingerprinting and DNA profiling in the context of forensic medicine and kinship testing It concentrates on methods of determining the degree of relatedness of members of the same species focusing on humans and occasionally glancing at other species

Forensic DNA Profiling Protocols Patrick J. Lincoln, Jim Thomson, 1998-01-22 This state of the art collection of easily reproducible methods includes all of the major techniques of DNA analysis currently used in forensic identity testing The methods include the recovery of DNA from a large range of sample types analysis of DNA as single and multi locus VNTR probes PCR amplification of STR and other loci and mitochondrial sequencing The expert scientists writing here many from laboratories around the world also discuss how to interpret the results in cases of unknown identity and disputed parentage Covers all steps from extraction of human DNA through to analysis and interpretation Takes advantage of new methodologies such as capillary electrophoresis Clear step by step instructions ensure unfailing reproducibility

DNA Fingerprinting: Approaches and Applications Terry Burke, 1991-08 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 finger printing to forensic and legal medicine has guaranteed a high public profile for this technology and indeed scarcely a week goes by with out the press reporting yet another crime successfully solved by molec ular 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 co ordinated 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 *DNA Analysis* Sue L. Hamilton, 2008 Describes DNA analysis and its use in criminal investigation discussing its history DNA fingerprinting and profiling the collection and use of DNA evidence and the science s role in the Simpson Goldman murder investigation

This book delves into Student Exploration Dna Fingerprint Analysis Gizmo Answers. Student Exploration Dna Fingerprint Analysis Gizmo Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Student Exploration Dna Fingerprint Analysis Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Student Exploration Dna Fingerprint Analysis Gizmo Answers in Everyday Life
 - Chapter 4: Student Exploration Dna Fingerprint Analysis Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
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operating room positive 4 20 nr no 20 to 60 20 to 24 emergency department public waiting area negative 2 12 yes nr max 65
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web may 20 2022 temperature range 72 to 78 f or 22 to 26 c organizations with existing facilities constructed or plans approved prior to july 5 2016 may comply with the 2012 ventilation requirements in nfpa 99 or the version of nfpa 99 in effect at the time of the ventilation system installation

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web may 20 2022 the joint commission has no prescriptive requirement for daily monitoring or logging of temperature and relative humidity of a particular room type unless required by a controlling authority such as the state health

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web mar 20 2020 there are certain acceptable ima limits which vary according to the area of the hospital tested such as the maximum acceptable ima is 5 for ultra clean rooms isolation rooms and operating room for joint replacements whereas in icu and dialysis rooms ima is acceptable up to 25

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web aug 1 2018 thermal perception of care professionals in hospital wards was analysed self assessed impact of thermal conditions on performance was also examined mean thermal sensation vote of 1 1 was obtained with mean air temperature 23 3 c this adversely impacted thermal comfort and work performance of nurses

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web to control both air temperature and humidity accurate humidity control also helps protect electronic equipment against electrostatic discharges ensuring a safer place for personnel and visitors and at the same time safeguarding patient health standards for operating rooms european directive 2002 91 ec and the en iso

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