

Name: Lee Arthur

Date:

## Student Exploration: DNA Fingerprint Analysis

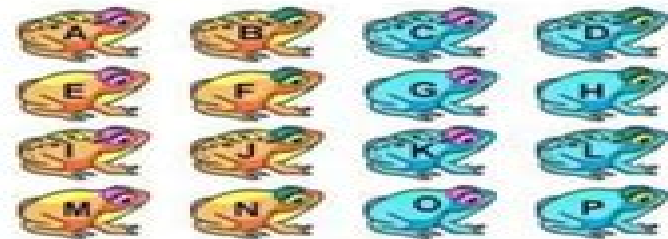
INQ: /20 COM: /5

**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 Guide Dna Fingerprint Analysis Answers

**L Reisser**



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Bowker's Complete Video Directory ,2000      *Tg/Sci+ Interactv Explortns CD-ROM Blue* Holt Rinehart & Winston,1998

Books in Print Supplement ,2002      Bowker's Law Books and Serials in Print ,1995      **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 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 Profiling and DNA Fingerprinting** Jörg Epplen,Thomas Lubjuhn,2012-12-09 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      **A Laboratory Guide to DNA**

**Fingerprinting/Profiling** Jörg T. Epplen,Lubjuhn,1999-05-10

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