

Name: Lee Arthur

Date:

Student Exploration: DNA Fingerprint Analysis

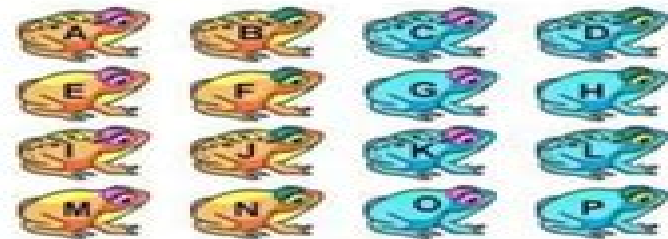
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Vocabulary: codon, DNA, DNA fingerprint, genotype, identical twins, nitrogenous base, phenotype, trait

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?

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