

Name: Lee Arthur

Date:

Student Exploration: DNA Fingerprint Analysis

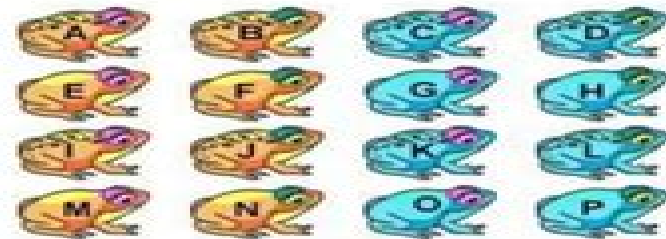
INQ: /20 COM: /5

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?

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web 1 ton 12 000 btu hr fig 1 illustrates some of these definitions using water as the medium experiencing a heat transfer process this graph plots the water temperature vs the enthalpy of the water heat content in btu lb we all know that water boils at 212 of atmospheric pressure at sea level

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web for r12 saturation pressure at 120 °F is 172.35 psia for r134a saturation pressure at 120 °F is 186.023 psia if a lower operating pressure is the only desired criterion for the design clearly r12 is a better choice c arizona s summer the design specification given thus far is the temperature of the condenser see diagram which is 120 °F