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Student Exploration: Inheritance

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: acquired trait, asexual reproduction, clone, codominant traits, dominant trait, offspring, recessive trait, sexual reproduction, trait

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. How are you similar to your parents?

We share the same genes as them

How are you different?

I don't have exactly the same DNA as them.

2. A **trait** is a characteristic. Think about your physical traits (eye color, skin tone, height, hair, face, allergies, etc.) What traits do you think you inherited, or received, from your parents?

height, hair color, eye color

Gizmo Warm-up

In the *Inheritance* Gizmo you can create and breed aliens on an imaginary planet. Select **Asexual reproduction**. During **asexual reproduction**, a single parent produces **offspring** (children).



1. Click **Create alien** and create your own alien. Describe its traits in the **Parent** row of the table:

Alien	Body type	Skin Color	Antenna shape	Tattoo
Parent	medium	green	straight	none
Offspring	medium	green	straight	none

2. Drag the parent over to the **Parent 1** space and press **Reproduce**. Fill in the **Offspring** traits on the table above. What traits appear to be inherited from the parent?

Children received their parents' DNA.

Because this offspring inherits its traits from one parent, it is called a **clone**.

Inheritance Gizmo Answers

Scott C. Dulebohn

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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