

Name: Date:

Student Exploration: Mouse Genetics (One Trait)

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

Vocabulary: allele, DNA, dominant allele, gene, genotype, heredity, heterozygous, homozygous, hybrid, inheritance, phenotype, Punnett square, recessive allele, trait

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

1. The image shows a single litter of kittens. How are they similar to one another?

white fur and spots

2. How do they differ from one another?

Different colors

3. What do you think their parents looked like?

Orange, black, white, and brown colored fur and patterned



Gizmo Warm-up

Heredity is the passage of genetic information from parents to offspring. The rules of **inheritance** were discovered in the 19th century by Gregor Mendel. With the *Mouse Genetics (One Trait)* Gizmo™, you will study how one **trait**, or feature, is inherited.

1. Drag two black mice into the **Parent 1** and **Parent 2** boxes. Click **Breed** to view the five offspring of these parents.

What do the offspring look like?

black furred mice

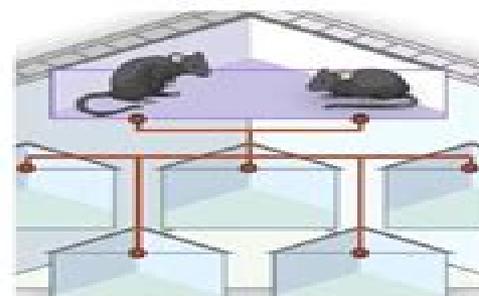
The appearance of each mouse is also called its **phenotype**.

2. Click **Clear**, and drag two white mice into the parent boxes. Click **Breed** several times. What is the phenotype of the offspring now?

All offspring are white mice

3. Do you think mouse offspring will always look like their parents? Explain:

Not all the time because there are many different ways offspring can look



Mouse Genetics One Trait Gizmo Answer Key

G Psacharopoulos



Mouse Genetics One Trait Gizmo Answer Key:

Unveiling the Magic of Words: A Report on "**Mouse Genetics One Trait Gizmo Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Mouse Genetics One Trait Gizmo Answer Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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