



Name:

Date:

Student Exploration: Chicken Genetics

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

Vocabulary: allele, codominance, dominant, genotype, heterozygous, homozygous, phenotype, probability, Punnett square, recessive, trait

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

1. The image shows a flower that was produced by crossing a pure red flower with a pure white flower. Which do you think is the dominant petal color; red or white? Explain.

Red, because the flower has more of red than white



2. How is the inheritance pattern shown by this flower different from other inheritance patterns you have seen or studied?

Usually, the past studies we've looked at either show something that is one, the other, or an equal mix of both. This one, however, we see glimpses of white, but the red is clearly more prominent.

Gizmo Warm-up

There are many different ways traits can be inherited. Some traits are governed by **alleles** that are **dominant** over other alleles. Other traits are governed by alleles that share dominance. These alleles follow a pattern of inheritance called **codominance**. With the *Chicken Genetics* Gizmo, you will study how codominance affects the inheritance of certain traits.

1. Turn on **Show genotype**. The **genotype** is the allele combination an organism has. Point to the red chicken.

A. What is the red chicken's genotype?

FRFR

B. What is the white chicken's genotype?

FVFW

2. What do you think the letters *F*, *R*, and *W* stand for in the genotypes?

F might stand for feathers, R could stand for "Red", and W could stand for White.

"Pure" chickens



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ML Yell



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Whispering the Techniques of Language: An Mental Quest through **Explolearning Gizmo Answer Sheet Chicken Genetics**

In a digitally-driven world wherever screens reign great and quick connection drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within words usually get unheard. However, set within the pages of **Explolearning Gizmo Answer Sheet Chicken Genetics** a charming literary prize sporting with fresh feelings, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, this charming opus attracts readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the mental depths of the poignant evaluation, we will embark upon a heartfelt exploration of the book is core subjects, dissect their charming writing style, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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