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Student Exploration: Chicken Genetics

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.

Neither petal colour is more dominant, this flower is an example of co-dominance in which both traits are clearly expressed.



2. How is the inheritance pattern shown by this flower different from other inheritance patterns you have seen or studied? The inheritance pattern in this flower is different from Mendelian inheritance because two traits are expressed. This inheritance pattern is different from incomplete dominance because it's not a blend of traits but rather 2 individual traits.

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? $F^R F^R$

B. What is the white chicken's genotype? $F^W F^W$

$$F^R F^R$$

$$F^W F^W$$

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

I think F stands for feather, R stands for red and W stands for white.

"Pure" chickens



Gizmos Student Exploration Chicken Genetics Answer Key

Yi-Tong Ma



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