

Name: Angelica Riviezzo Date: _____

Student Exploration: Hardy-Weinberg Equilibrium

Vocabulary: allele, genotype, Hardy-Weinberg equation, Hardy-Weinberg principle, heterozygous, homozygous, incompletely dominant, Punnett square

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

1. A bird's feather color is controlled by two **alleles**, D (dark feathers) and d (lighter feathers). Suppose two Dd birds mate. What percentages of DD , Dd , and dd offspring would you predict? Use the **Punnett square** at right to help determine your answer.

DD 25% Dd 50% dd 25%

	D	d
D		
d		

2. In this situation, what ratio of **heterozygous** (Dd) to **homozygous** (DD and dd) offspring would you expect to find? 1:1

Gizmo Warm-up

Many factors—immigration, natural selection, hunting, etc.—can influence the composition of a population. To determine if one of these factors is affecting a population, it is useful to know what a population looks like when *none* of these factors is present.



In 1908, Godfrey Hardy and Wilhelm Weinberg independently discovered the laws that govern such populations. These laws can be explored in the *Hardy-Weinberg Equilibrium Gizmo™*.

1. The parrots you see represent a population of 500 parrots. For these parrots, the D allele is **incompletely dominant** over d , which means that Dd parrots are intermediate between DD and dd parrots. In the Gizmo, select the **TABLE** tab. How many parrots of each **genotype** are in the initial population?

DD 250 Dd 100 dd 150

2. Return to the **DESCRIPTION** tab. Click **Begin**, and then click **Breed**. What happens?

Hardy Weinberg Equilibrium Study Guide Answer Key

Michal Rosen-Zvi



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