

## Evolution of Populations

## Modeling a Gene Pool

### Introduction

A population is a group of organisms of the same species that live together in a particular location. Each population is normally isolated from other populations of the same species. Populations can be observed for many characteristics.

Population genetics is the study of genes in a population of organisms. Biologists who study population genetics are interested in how frequently alleles of a gene appear in a population. Biologists are also interested in any changes in gene frequencies that may be occurring.

In this investigation beans will be used to represent individuals in a simulated population of organisms. Red beans will be symbols for homozygous dominant individuals  $RR$ . Pink (pinto) beans will be symbols for heterozygous individuals  $Rr$ . White beans will be symbols for homozygous recessive individuals  $rr$ . You will study various crosses using the beans and analyze frequencies and frequency changes as they appear in a simulated population in which a harmful phenotype occurs. In addition to this, you will be able to see how a potentially lethal genetic disorder affects allele frequency in the population over generations.

### Problem

How does gene frequency change in a population of organisms?

### Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

1. Why are you asked to set aside and not use some of the white beans at the start of the experiment?

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2. If the initial breeding population (the parent generation) is composed of 16  $RR$  individuals, 32  $Rr$  individuals, and 8  $rr$  individuals, how many  $R$  alleles are present in the parent generation? How many  $r$  alleles are present in the parent generation?

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3. For the individuals in this lab, can the genotype of each be determined from the phenotype? Explain your answer.

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# Modeling A Gene Pool Lab Answers

**R Barnett**



**Modeling A Gene Pool Lab Answers:**

## **Modeling A Gene Pool Lab Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Modeling A Gene Pool Lab Answers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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