

## 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

**Tobias Bleicker**



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