

# 17.2 Evolution as Genetic Change in Populations

**THINK ABOUT IT** Ever since humans began farming, they have battled insects that eat crops. Many farmers now use chemicals called pesticides to kill crop-devouring insects. When farmers first used modern pesticides such as DDT, the chemicals killed most insects. But after a few years, many pesticides stopped working. Today, farmers fight an ongoing “arms race” with insects. Scientists constantly search for new chemicals to control pests that old chemicals no longer control. How do insects fight back? By evolving.

At first, individual pesticides kill almost all insects exposed to them. But a few individual insects usually survive. Why? Because insect populations often contain enough genetic variation that a few individuals, just by chance, are resistant to a particular pesticide. By killing most of the susceptible individuals, farmers increase the relative fitness of the few individuals that can resist the poison. Those insects survive and reproduce, passing their resistance on to their offspring. After a few generations, the descendants of the original, resistant individuals dominate the population.

To understand completely how pesticide resistance develops, you need to know the relationship between natural selection and genetics.



## How Natural Selection Works

**How does natural selection affect single-gene and polygenic traits?**

Pesticide-resistant insects have a kind of fitness that protects them from a harmful chemical. In genetic terms, what does fitness mean? Each time an organism reproduces, it passes copies of its genes on to its offspring. We can, therefore, view evolutionary fitness as success in passing genes to the next generation. In the same way, we can view an evolutionary adaptation as any genetically controlled trait that increases an individual's ability to pass along its alleles.

### Key Questions

**How does natural selection affect single-gene and polygenic traits?**

**What is genetic drift?**

**What conditions are required to maintain genetic equilibrium?**

### Vocabulary

directional selection  
stabilizing selection  
disruptive selection  
genetic drift  
bottleneck effect  
founder effect  
genetic equilibrium  
Hardy-Weinberg principle  
sexual selection

### Talking Notes

**Preview Visuals** Before you read, look at Figure 17-6. What evolutionary trend does it seem to show?

## Getting Started

### Objectives

**17.2.1 Explain** how natural selection affects single-gene and polygenic traits.

**17.2.2 Describe** genetic drift.

**17.2.3 Explain** how different factors affect genetic equilibrium.

### Student Resources

**Study Workbooks A and B**, 17.2 Worksheets

**Spanish Study Workbook**, 17.2 Worksheets

**Lab Manual B**, 17.2 Data Analysis Worksheet, Hands-On Activity Worksheet

**Student Resources** Lesson Overview • Lesson Notes • Activity: Art in Motion • Assessment: Self-Test, Lesson Assessment

For corresponding lesson in the **Foundation Edition**, see pages 409–413.

### Activate Prior Knowledge

Based on what they learned in Chapter 16 about Darwin's theory of evolution, have several students in turn state a fact about, or give an example of, natural selection.

**Ask:** If Darwin had known what you know about genes, how do you think he would have defined fitness? (Sample answers: possession of genes that enhance survivability; ability of an individual to pass copies of its genes to its offspring)



### NATIONAL SCIENCE EDUCATION STANDARDS

#### UNIFYING CONCEPTS AND PROCESSES

L, E, B, IV

#### CONTENT

C.2.c, C.3.a, C.3.b, C.3.c

#### INQUIRY

A.1.b, A.1.c, A.2.a, A.2.d

### Biologist

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## U2D Teach for Understanding

**ENDURING UNDERSTANDING** The diversity of life is the result of ongoing evolutionary change. Species alive today have evolved from ancient common ancestors.

**GUIDING QUESTION** What causes a population's gene pool to change?

**EVIDENCE OF UNDERSTANDING** After the lesson, give students the following assessment to determine whether they understand the role of chance events in the evolution of small populations. Have pairs of students use coin tosses to simulate the effects of chance on the allele frequencies in a population of 10 individuals. In the first generation, there are 10 “heads” alleles and 10 “tails” alleles. Students should assume that there are 10 individuals in the next generation. Students should toss the coin twice for each individual in the next generation and record the outcomes of the tosses. After pairs compare their new allele frequencies, have each student write a brief explanation of whether genetic drift has occurred.

# Populations Vocabulary Review Labeling Diagrams

**Karin Nielsen-Saines**



## **Populations Vocabulary Review Labeling Diagrams:**

This book delves into Populations Vocabulary Review Labeling Diagrams. Populations Vocabulary Review Labeling Diagrams is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Populations Vocabulary Review Labeling Diagrams, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Populations Vocabulary Review Labeling Diagrams
    - Chapter 2: Essential Elements of Populations Vocabulary Review Labeling Diagrams
    - Chapter 3: Populations Vocabulary Review Labeling Diagrams in Everyday Life
    - Chapter 4: Populations Vocabulary Review Labeling Diagrams in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Populations Vocabulary Review Labeling Diagrams. The first chapter will explore what Populations Vocabulary Review Labeling Diagrams is, why Populations Vocabulary Review Labeling Diagrams is vital, and how to effectively learn about Populations Vocabulary Review Labeling Diagrams.
  3. In chapter 2, this book will delve into the foundational concepts of Populations Vocabulary Review Labeling Diagrams. This chapter will elucidate the essential principles that need to be understood to grasp Populations Vocabulary Review Labeling Diagrams in its entirety.
  4. In chapter 3, the author will examine the practical applications of Populations Vocabulary Review Labeling Diagrams in daily life. This chapter will showcase real-world examples of how Populations Vocabulary Review Labeling Diagrams can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Populations Vocabulary Review Labeling Diagrams in specific contexts. This chapter will explore how Populations Vocabulary Review Labeling Diagrams is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Populations Vocabulary Review Labeling Diagrams. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Populations Vocabulary Review Labeling Diagrams.

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means greater than or equal to means less than or equal to means the number is squared some questions require you to graph equations no graphs will be given currently a work in progress i will update answers as the break continues work is

shown first then the answer is

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substitute the value of the variable into one of the original equations and solve for the other variable 4 write the answers steps 2 and 3 as an ordered pair  $x$   $y$  and check includes vocabulary formulas and several problems from chapters 1 6 learn with flashcards games and more for free

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