

# 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-destroying 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

1, 2, 3, 4

#### 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.

# Biology Populations Vocabulary Review Answers

**Stephanie Zinn**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Biology Populations Vocabulary Review Answers:**

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Holt Biology Holt Rinehart & Winston, 2003-08 McGraw-Hill's SAT Subject Test: Biology E/M, 2/E Stephanie Zinn, 2009-02-01 We want to help you score high on the SAT Biology E M tests We've put all of our proven expertise into McGraw Hill's SAT Subject Test Biology E M to make sure you're fully prepared for these difficult exams With this book you'll get essential skill building techniques and strategies created by leading high school biology teachers and curriculum developers You'll also get 5 full length practice tests hundreds of sample questions and all the facts about the current exams With McGraw Hill's SAT Subject Test Biology E M we'll guide you step by step through your preparation program and give you the tools you need to succeed 4 full length practice exams and a diagnostic exam with complete explanations for every question 30 top test items to remember on exam day A step by step review of all topics covered on the two exams Teacher recommended tips and strategies to help you raise your score **McGraw-Hill Education SAT Subject Test Biology E/M**

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**Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 AGS Biology, 2000 **McGraw-Hill**

**Education SAT Subject Test Biology, Fifth Edition** Stephanie Zinn, 2018-11-23 We Will Help You Get Your Best Score With more than 125 years of experience in education McGraw Hill Education is the name you trust to deliver results This

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descriptors are based on nwea norms low 20th percentile or lower loavg 20th to 40th percentile avg 40th to 60th percentiles  
hiavg 60th to 80th percentiles high 80th percentile or higher

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median rit scores were constructed based on 2 standard errors of measurement sems sem

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