## **Evolution as Genetic** Change in Populations

THINK ABOUT IT Ever since humans began farming, they have bettled insects that eat crops. Many factors now use chemicals called penticides to kill crop-destroying images. When farmers first used modern posticides such in DOT, the chemicals killed most innerts. But other a few years, many pesticides stopped working. Today, formers fight an engoing "arms tuce" 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 perticides 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 fitnoise of the fire individuals that care resist the poisson. Those insects survive and reproduce. pussing their resistance on to shorie officpelosg. Athier a first priserations, the designidants of the original, reststant individuals disensimate the propulation.

To understand completely how perticide resistance directors, you need to know the relationship between nataral relection and genetics.



#### Key Questions

Place does natural soluction or single-game and polygenia Broadle P

What is possible didn't

What singlifficate days required to maintain panetic equilibrium?

#### Vocabulary:

directorsid adaption moltodisting selection. disrugative selections ments did. sintlemate effect November effects genetic equilibrium Hamily Walmburg principle parameter and arthur

#### **Volking Notes**

Premium Vingella Bellora you recoil, Rock of Pigure 10-ds. What evolutionary trend does it seem. Prompetty on

#### How Natural Selection Works

( How does natural selection affect single-gone and prohygamic triple?

Pesticide resistant insects have a kind of fitness that protects themfrom a harmful chemical. In practic terms, what down from meant Each time an organism reproduces, it passes copies of its genes on to its offigeing. We can, therefore, view evolutionary fitness as success in province powers to the most expectation. In the same way, we can view an evolutionary adaptation as any genetically controlled truit that increases an individual's ability to pass along its alleles.



## 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.

## Getting Started

#### **Objectives**

17.2.1 Explain how natural selection affects singlegene 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

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 Danwin 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 affspring):



#### NATIONAL SCIENCE EDUCATION STANDARDS

UNIFYING CONCEPTS AND PROCESSES

U. BL. DEL TV

#### CONTENT

C2c, C3a, C3b, C3c

#### INQUIRY

A1b A1c A2a A2d

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**Christian G. Meyer** 

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## **Table of Contents Populations Vocabulary Review Holt Biology**

- 1. Understanding the eBook Populations Vocabulary Review Holt Biology
  - The Rise of Digital Reading Populations Vocabulary Review Holt Biology
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Populations Vocabulary Review Holt Biology
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Populations Vocabulary Review Holt Biology
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Populations Vocabulary Review Holt Biology
  - Personalized Recommendations
  - Populations Vocabulary Review Holt Biology User Reviews and Ratings
  - Populations Vocabulary Review Holt Biology and Bestseller Lists
- 5. Accessing Populations Vocabulary Review Holt Biology Free and Paid eBooks
  - Populations Vocabulary Review Holt Biology Public Domain eBooks
  - Populations Vocabulary Review Holt Biology eBook Subscription Services
  - Populations Vocabulary Review Holt Biology Budget-Friendly Options

- 6. Navigating Populations Vocabulary Review Holt Biology eBook Formats
  - o ePub, PDF, MOBI, and More
  - Populations Vocabulary Review Holt Biology Compatibility with Devices
  - Populations Vocabulary Review Holt Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Populations Vocabulary Review Holt Biology
  - Highlighting and Note-Taking Populations Vocabulary Review Holt Biology
  - Interactive Elements Populations Vocabulary Review Holt Biology
- 8. Staying Engaged with Populations Vocabulary Review Holt Biology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Populations Vocabulary Review Holt Biology
- 9. Balancing eBooks and Physical Books Populations Vocabulary Review Holt Biology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Populations Vocabulary Review Holt Biology
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Populations Vocabulary Review Holt Biology
  - Setting Reading Goals Populations Vocabulary Review Holt Biology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Populations Vocabulary Review Holt Biology
  - Fact-Checking eBook Content of Populations Vocabulary Review Holt Biology
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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