

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

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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

Schyrlet Cameron, Carolyn Craig



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Strategies for Building Academic Vocabulary in Social Studies Christine Dugan, 2010-01-01 Boost students social studies vocabulary with easy to implement effective strategies Sample lessons using each strategy are included for grade spans 1 2 3 5 and 6 8 using vocabulary words from standards based content specific units of study Each strategy also includes suggestions for differentiating instruction Each notebook includes 25 research based strategies differentiation suggestions for each strategy assessment strategies sample word lists including both specialized content and general academic words and parent letters in both English and Spanish Also included is a Teacher Resource CD with PDFs of resource pages word lists assessment pages and parent letters 280pp *Ss98 World Regions Pupils Edition* ,1997-03

Mapping Skills with Google Earth: Population Maps Paul Bramley, 2013-10-01 This is the chapter slice Population Maps from the full lesson plan Mapping Skills with Google Earth Move on from a basic understanding of map reading to a more complex one with our engaging resource designed for students in grades six to eight Students will further develop their ability to read and understand maps by looking at weather and population maps Then students will engage in mapping their country in detail including states provinces capitals cultural and geographical features Finally students will move on to mapping their continent and then the world Comprised of reading passages map activities crossword word search and comprehension quiz our resource incorporates curriculum based lessons with Google Earth so students can further understand the complexities of map reading with the help of visual and interactive technology All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy *Microsoft Office XP* Pasewark and Pasewark Staff, 2001-09 **Forum** ,1982 **Microsoft Office 2003** Pasewark and Pasewark LTD., William R. Pasewark, 2005 **A**

Population Health Approach to Health Disparities for Nurses Faye Gary, Marilyn Lotas, 2022-10-14 Awarded second place in the 2023 AJN Book of the Year Awards in Public and Population Health Offers vivid narratives illuminating the challenges and opportunities health professionals and policymakers face Distinguished by abundant patient and health provider narratives highlighting the impact of health disparities on health outcomes worldwide this scholarly yet practical text prepares RN BSN DNP and PhD students to work toward improving community health for a variety of underserved and vulnerable populations Grounded in the population health approach addressed in AACN Essentials the text delivers practical steps nurses can take to address population health goals including the improvement of quality of care access to healthcare improved outcomes and cost management The resource is also unique in its reflection of the interconnected points of view of the patient the provider and the health system Written by lawyers physicians social workers statisticians and economists psychologists ethicists finance experts population health specialists anthropologists and nurses the text emphasizes an interdisciplinary approach to learning and all components of health care delivery of care policy research and teaching It examines demographic differences chronic and acute health conditions and the health needs of the unserved underserved

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STEM Labs for Life Science, Grades 6 - 8 Schyrlet Cameron,Carolyn Craig,2017-01-03 STEM Labs for Life Science by Mark Twain includes 26 fun integrated labs that help students understand concepts such as life human body systems ecosystems This middle school life science book encourages students to collaborate and communicate to solve real world problems The STEM Labs for Life Science book for sixth eighth grades features introductory materials to explain STEM education concepts and provides materials for instruction and assessment Correlated to meet current state standards each lab combines the following essential STEM concepts communication creativity teamwork critical thinking The Mark Twain Publishing Company provides classroom decorations and supplemental books for middle grade and upper grade classrooms These products are designed by leading educators and cover science math behavior management history government language arts fine arts and social studies *Ebony* ,2005-11 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine

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Table of Contents Populations Vocabulary Review Labeling Diagrams

1. Understanding the eBook Populations Vocabulary Review Labeling Diagrams
 - The Rise of Digital Reading Populations Vocabulary Review Labeling Diagrams
 - Advantages of eBooks Over Traditional Books
2. Identifying Populations Vocabulary Review Labeling Diagrams
 - Exploring Different Genres
 - 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 Labeling Diagrams
 - User-Friendly Interface
4. Exploring eBook Recommendations from Populations Vocabulary Review Labeling Diagrams
 - Personalized Recommendations
 - Populations Vocabulary Review Labeling Diagrams User Reviews and Ratings
 - Populations Vocabulary Review Labeling Diagrams and Bestseller Lists
5. Accessing Populations Vocabulary Review Labeling Diagrams Free and Paid eBooks
 - Populations Vocabulary Review Labeling Diagrams Public Domain eBooks
 - Populations Vocabulary Review Labeling Diagrams eBook Subscription Services
 - Populations Vocabulary Review Labeling Diagrams Budget-Friendly Options
6. Navigating Populations Vocabulary Review Labeling Diagrams eBook Formats
 - ePub, PDF, MOBI, and More
 - Populations Vocabulary Review Labeling Diagrams Compatibility with Devices
 - Populations Vocabulary Review Labeling Diagrams Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Populations Vocabulary Review Labeling Diagrams
 - Highlighting and Note-Taking Populations Vocabulary Review Labeling Diagrams
 - Interactive Elements Populations Vocabulary Review Labeling Diagrams

8. Staying Engaged with Populations Vocabulary Review Labeling Diagrams
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Populations Vocabulary Review Labeling Diagrams
9. Balancing eBooks and Physical Books Populations Vocabulary Review Labeling Diagrams
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Populations Vocabulary Review Labeling Diagrams
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Populations Vocabulary Review Labeling Diagrams
 - Setting Reading Goals Populations Vocabulary Review Labeling Diagrams
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Populations Vocabulary Review Labeling Diagrams
 - Fact-Checking eBook Content of Populations Vocabulary Review Labeling Diagrams
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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