

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

Go Online 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

Biggest

Search

Lesson 17.2



Lesson Overview

Lesson Notes

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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 Chapter 5 Populations Answer Key

CH Cherryholmes



Biology Chapter 5 Populations Answer Key:

Demographic Methods Across the Tree of Life Roberto Salguero-Gomez, Marlène Gamelon, 2021 This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols clearly guided throughout with fully reproducible R scripts **Holt**

Biology Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008 **Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-02-26 Spatial dynamics landscape population

The Princeton Guide to Ecology Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field's major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management **Holt Biology** Holt Rinehart & Winston, 2003-08 **Wildlife Management and Conservation** Paul R. Krausman, James W. Cain, 2013-11 The relationship among these three components of wildlife management is explained in chapters written by leading experts and is designed to prepare wildlife students for careers in which they will be charged with maintaining healthy animal populations finding ways to restore depleted populations while reducing overabundant introduced or pest species and managing relationships among various human stakeholders Topics covered in this book include The definitions of wildlife and management Human dimensions of wildlife management Animal behavior Predator prey relationships Structured decision making Issues of scale in wildlife management Wildlife health Historical context of wildlife management and conservation Hunting and trapping Nongame species Nutrition ecology Water management Climate change Conservation planning **Study Guide Essential Biology with Physiology** Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology

CD ROM and Website *Study Guide* George Karleskint,1991 **Biology** Burton S. Guttman,Johns W. Hopkins,1999 This fresh new approach to general biology integrates new research in genetics ecology evolution and molecular biology through four unifying conceptual themes Concepts are covered when appropriate in sufficient but not overwhelming detail The process of scientific discovery is emphasized and active learning is promoted through problem solving exercises in every chapter Study Guide Johnson,Judith Stewart,2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities **McGraw-Hill's GED** McGraw-Hill Education,2001-09-11 The bestselling guide updated to reflect all changes to the GED through 2002 Each year nearly a million North Americans take the GED high school equivalency exam Formerly entitled Contemporary s GED one of the most popular resources for those prepping for the test has been revised for all changes to the GED through 2002 This latest edition of the bestselling guide arms readers with what they need to score high in all five test categories including targeted assessments easy to follow instructions hundreds of reinforcement activities and simulated GED tests for each subject area Outstanding features that have made for the continuing popularity of this guide include Half length pretests for each subject area that help readers pinpoint strengths and weaknesses Two full length practice tests for each subject area Special new sections on critical thinking skills graphs and illustrations New guidelines for using the Casio fx 260 solar calculator for the mathematics test A complete answer key explaining why each answer is correct Chapter by chapter surveys that reinforce knowledge of key concepts Test taking tips and strategies **Neotropical Primates** ,2000 **Biology** Kenneth R. Miller,1991 **Population-specific HIV/AIDS Status Report** ,2009 **Cell Biology and Genetics** Cecie Starr,Ralph Taggart,1998 Cell Biology and Genetics covers Chapter 1 Unit I The Cellular Basis of Life and Unit II Principles of Inheritance and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Cell Biology Genetics volume includes characteristics of life scientific methods basic chemistry cell biology metabolism mitosis and meiosis classical genetics human genetics molecular genetics recombinant DNA and genetic engineering *Biology* Cecie Starr,John D. Jackson,Roger Taylor,1991 **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 **Science Explorer Physical Science** Michael J.

Padilla, Ioannis Miaculis, Martha Cyr, The Journal of Wildlife Management, 2000 **Essential Environment** Jay
Withgott, Scott R. Brennan, 2007 *The Science Behind the Stories* retains all the popular features of the landmark first edition including its integrated central case study approach and focus on the scientific process current data and critical thinking in a brief 15 chapter text The Second Edition features a new chapter on ecology with expanded coverage of community ecology and biomes New end of chapter activities and interactive exercises on the Environmental Place Website help students hone the skills they need to make informed decisions on environmental issues Calculating Ecological Footprint activities at the end of each chapter give students practice in applying individual decisions to larger scales The Investigate It interactive map on the website provides more than 120 additional case studies You Decide web activities help students learn how to analyze data on global warming and conservation

Biolohy Chapter5 Populations Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Biolohy Chapter5 Populations Answer Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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