

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.

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Michaela Colombo, Dana Furbush



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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 K 2 3 5 6 8 and 9 12 using vocabulary words from standards based content specific units of study *Ss98 World Regions Pupils Edition* ,1997-03 [Nine Dimensions of Scaffolding for Multilingual Learners](#) Maria G. Dove, Andrea Honigsfeld, Carrie McDermott Goldman, 2025-07-24 Create a rigorous learning environment with strategic and inclusive scaffolding practices Today s classrooms are more linguistically diverse than ever but many educators still feel underprepared to support multilingual learners in accessing grade level academic content Without intentional scaffolding these students miss opportunities to thrive alongside their peers Through nine scaffolded approaches instructional linguistic multimodal multisensory graphic digital interactive collaborative social emotional and environmental this resource offers content area teachers research based practical strategies to meet the linguistic social emotional and academic needs of multilingual learners Key features of this book include Detailed vignettes and authentic examples from classrooms to illustrate scaffolding in action Research based strategies for integrating scaffolds into lessons across content areas Self assessment tools and reflection questions for personal and professional growth Practical templates to help educators tailor their scaffolding techniques to individual student needs Scaffolding instruction is not just another teaching approach to learning it is a critical non negotiable for multilingual learners providing a lifeline to language mastery academic achievement and a profound sense of belonging Dove Honigsfeld and McDermott Goldman offer the guidance and inspiration educators need to cultivate equitable engaging learning opportunities that truly help multilingual students to soar [Living Things for Grades 3-5](#) Jennifer E. Lawson, 2021-09-13 Living Things for Grades 3 5 from Hands On Science for British Columbia An Inquiry Approach completely aligns with BC s New Curriculum for science Grounded in the Know Do Understand model First Peoples knowledge and perspectives and student driven scientific inquiry this custom written resource emphasizes Core Competencies so students engage in deeper and lifelong learning develops Curricular Competencies as students explore science through hands on activities fosters a deep understanding of the Big Ideas in science Using proven Hands On features Living Things for Grades 3 5 contains information and materials for both teachers and students including Curricular Competencies correlation charts background information on the science topics complete easy to follow lesson plans digital reproducible student materials and materials lists Innovative new elements have been developed specifically for the new curriculum a multi age approach a five part instructional process Engage Explore Expand Embed Enhance an emphasis on technology sustainability and personalized learning a fully developed assessment plan for summative formative and student self assessment a focus on real life Applied Design Skills and Technologies learning centres that focus on multiple intelligences and universal design for learning UDL place based learning activities Makerspaces and

Loose Parts In Living Things for Grades 3 5 students investigate plants and animals Core Competencies and Curricular Competencies will be addressed while students explore the following Big Ideas Plants and animals have observable features Living things have features and behaviours that help them survive in their environment Living things have life cycles adapted to their environment

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

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Microsoft Office 2003 Pasewark and Pasewark LTD.,William R. Pasewark,2005

Forum,1993

Teaching English Language Learners Michaela Colombo,Dana Furbush,2008-11-12 Teaching English Language Learners Content and Language in Middle and Secondary Mainstream Classrooms provides a reader friendly guide to implementing and assessing high level content area instruction for English Language Learners Beginning with an overview of second language acquisition and the cultural variables that impact teaching and learning authors Michaela Colombo and Dana Furbush go on to detail planning strategies units and lessons Practical in nature this text focuses on the areas where it is often most difficult to make content comprehensible and build academic language skills middle and secondary math English language arts history and science Teaching English Language Learners will provide pre and in service teachers with a foundational understanding of how to purposefully structure build and present effective lessons for English language learners in mainstream content area courses Key Features Includes an entire chapter on differentiating summative assessments for varying levels of English language proficiency showing readers how to plan daily lessons with clear objectives and assessments Provides sample lessons from content area experts in each chapter of Part II along with mini lessons specifically dedicated to building language Incorporates Review Reflect Apply activities in each chapter promoting reader reflection journaling and discussion and encouraging students to stop and check for understanding before proceeding Teaching English Language Learners Content and Language in Middle and Secondary Mainstream Classrooms is appropriate for courses entitled English Language Learners in Secondary Classrooms Methods of Sheltered Content Instruction Content Based ESL Teaching and Assessing ELL in Content Areas and ESL for Mainstream Teachers

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