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

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What is possible didn't

What singlifficate days required to maintain panetic equilibrium?

Vocabulary:

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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 pames 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):



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UNIFYING CONCEPTS AND PROCESSES

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CONTENT

C2c, C3a, C3b, C3c

INQUIRY

A1b A1c A2a A2d

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Honigsfeld, Carrie McDermott Goldman

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providers and health systems to promote cultural competence Pinpoints health disparities including a discussion of COVID 19 Presents selected historical landmarks and cases that influence population health outcomes among vulnerable groups Interdisciplinary approach includes the perspectives of other health and social science disciplines **Pervasive Computing** Jadwiga Indulska, 2008-04-29 This book constitutes the refereed proceedings of the 6th International Conference on Pervasive Computing PERVASIVE 2008 held in Sydney Australia in May 2008 The 18 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on sensing and activity recognition applications for mobile devices location in pervasive systems platforms for pervasive computing lessons learned from displays games and health applications as well as privacy and Resources in Education ,1999-10 Instructional Design S. Dijkstra, 1997 Instructional design theory and security practice has evolved over the past 30 years from an initial narrow focus on programmed instruction to a multidimensional field of study integrating psychology technology evaluation measurement and management The growth of instructional design ID has occurred because of direct needs problems and goals from society Its application in planning instruction first developed in the United States with the Department of Defense during World War II with the purpose of meeting immediate concerns for effective training of larger numbers of military personnel From the beginning ID has rapidly expanded into applications in industrial and executive training vocational training classroom learning and professional education Although ID has its roots in the U S applications and theoretical growth is an international activity However literature at the international level is still limited to either individual author contributions or collections primarily represented by single countries As a result there is no standard reference source that contains the rich variety of theories and applications to form the international foundation for the field The goal of this two volume set is to establish international foundations for ID theory research and practice within the framework of the two following objectives to identify and define the theoretical research and model foundations for ID and to bridge the gap between ID foundations and application Volume I includes chapters on philosophical and theoretical issues on learning theory and ID models Volume II provides an overview of the state of the art of solving ID problems The contributors offer contrasting points of view which provide a rare opportunity to see the diversity and complexity in the field The editorial committee has selected a wide range of internationally known authors to make **Food and Nutrition Information and Educational Materials Center** presentations in the topic areas of the field catalog Food and Nutrition Information Center (U.S.).,1976 CLIL Activities with CD-ROM Liz Dale.Rosie Tanner, 2012-03-15 Innovative activities for Content and Language Integrated Learning CLIL teachers and trainee teachers CLIL Activities is organised into five chapters Activating Guiding understanding Focus on language Focus on speaking and Focus on writing A further chapter provides practical ideas for assessment review and feedback The Background to CLIL section offers a clear explanation of what CLIL is and its benefits and challenges The book contains a wide range of easily

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secondary connects to the r terminal on the control board and the other leg connects to the c terminal in this example there s actually a c terminal present but that will not always be the case especially in old models

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