

Microevolution & Macroevolution Worksheet

Name _____

Section A: The Making of the Fittest — Evolving Bodies, Evolving Switches

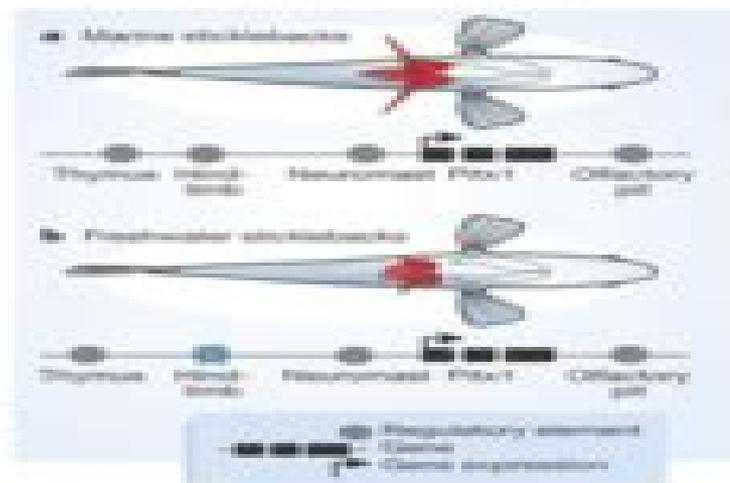
<http://www.khanacademy.org/evolution/a/making-the-fittest-evolving-bodies-evolving-switches-evolving-bodies>

- Identify if the following statements are true or false. Explain your answer.
 - "Having pelvic spines is always advantageous for a stickleback." _____
 - "All mutations are bad." _____
- What special features of the environment in Bear Flaw Lake, Alaska, may have favored the survival and reproduction of stickleback fish with reduced pelvis? _____
- In the film, Dr. Bell notes that in multiple freshwater populations and at multiple times in history, the frequency of stickleback fish with pelvic fins decreased and frequency of stickleback fish with reduced pelvises increased. This demonstrates that _____.
 - only fish with smaller pelvises migrate to freshwater
 - similar environments select for similar genetic changes
 - the pelvis of the marine fish is destroyed by freshwater
- Circle whether each statement is true or false.
 - True or False Evolutionary change always takes millions of years.
 - True or False Dramatic changes in traits, such as the loss of limbs, can occur through mutations affecting a single gene.

5. In the diagram, the gray dots represent regulatory switches, each one allows a specific binding protein to interact with it and turn on the Pitx1 gene in a particular tissue. When expressed, the Pitx1 gene is transcribed and then translated to generate the Pitx1 protein. Read each question below and write a 'yes' or 'no'.

- A deletion in the Pitx1 gene causes a frameshift mutation. How likely is it that a functional Pitx1 protein would be produced in the jaw? _____ in the pelvis? _____. Explain your answers.

- The regulatory gene for hindlimbs was deleted. Would you see a functional Pitx1 protein in the jaw? _____ in the pelvis? _____. Explain your answers.



Section B: Natural Selection and Adaptation

<http://www.khanacademy.org/evolution/a/making-the-fittest-natural-selection-and-adaptation>

- Explain how the environment plays a role in changing the frequency of a mutant allele in a population.

Microevolution Answer Key

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Microevolution Answer Key:

Microevolution Rate, Pattern, Process Andrew P. Hendry, Michael T. Kinnison, 2012-12-06 From guppies to Galapagos finches and from adaptive landscapes to Haldanes this compilation of contributed works provides reviews perspectives theoretical models statistical developments and empirical demonstrations exploring the tempo and mode of microevolution on contemporary to geological time scales New developments and reviews of classic and novel empirical systems demonstrate the strength and diversity of evolutionary processes producing biodiversity within species Perspectives and theoretical insights expand these empirical observations to explore patterns and mechanisms of microevolution methods for its quantification and implications for the evolution of biodiversity on other scales This diverse assemblage of manuscripts is aimed at professionals graduate students and advanced undergraduates who desire a timely synthesis of current knowledge an illustration of exciting new directions and a springboard for future investigations in the study of microevolution in the wild

Plant Microevolution and Conservation in Human-influenced Ecosystems David Briggs, 2009-11-26 As human activities are increasingly domesticating the Earth's ecosystems new selection pressures are acting to produce winners and losers amongst our wildlife With particular emphasis on plants Briggs examines the implications of human influences on microevolutionary processes in different groups of organisms including wild weedy invasive feral and endangered species Using case studies from around the world he argues that Darwinian evolution is ongoing He considers how far it is possible to conserve endangered species and threatened ecosystems through management and questions the extent to which damaged landscapes and their plant and animal communities can be precisely recreated or restored Many of Darwin's ideas are highlighted including his insights into natural selection speciation the vulnerability of rare organisms the impact of invasive species and the effects of climate change on organisms An important text for students and researchers of evolution conservation climate change and sustainable use of resources

Debating Cancer: The Paradox In Cancer Research Henry H Q Heng, 2015-10-08 Cancer research is at a crossroads Traditionally cancer has been thought of as a disease of gene mutation where the stepwise accumulation of cancer gene mutations is the key and the identification of common gene mutations has been considered to be essential for diagnosis and treatment Despite extensive research efforts and accumulated knowledge on cancer genes and pathways the clinical benefits of this traditional approach have been limited Recently cancer genome sequencing has revealed an extensive amount of genetic heterogeneity where the long expected common mutation drivers have been difficult if not impossible to identify These realities ultimately challenge the conceptual framework of current cancer biology This book introduces a new concept of genome theory of cancer evolution in an attempt to unify the field Many important and representative but often confusing questions and paradoxes are critically analyzed By comparing gene and genome based theories the hidden flaws of many popular viewpoints are addressed This discussion is intended to initiate a much needed critical re evaluation of current cancer research

Student Study Guide for Biology [by]

Campbell/Reece/Mitchell Martha R. Taylor,1999 **Questions and Answers on Creation/evolution** John N. Moore,1976
Telecourse Cycles of Life Gerald L. Kellogg,Starr,1999-07 This guide provides students with a road map through the telecourse and contains assignments for reading viewing and doing related activities plus overviews of the content of each lesson and the accompanying video program For information about bundling it with any Starr textbook contact your Cengage Learning representative **Student Guide for Cycles of Life** Gerarld L. Kellogg,2006 **Introduction to Genetics: A Molecular Approach** T A Brown,2012-03-22 Introduction to Genetics A Molecular Approach is a new textbook for first and second year undergraduates It first presents molecular structures and mechanisms before introducing the more challenging concepts and terminology associated with transmission genetics *Holt Biology* Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 **Biology!** John H. Postlethwait,Janet L. Hopson,John N. Postlethwait,Ruth C. Veres,1991 *Endocytobiosis and Cell Research* ,1998 **Tb Anthropology 11e** Haviland,Prins,Walrath,2004-05 **Genetics** Robert J. Brooker,Brooker Robert,2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises **Foundations of Forest Ecosystems** Egolfs Voldemars Bakuzis,1976 *European Journal of Cell Biology* ,1999 The Evolutionary Process Verne Grant,1985 Providing a clear and thorough review of the active field of organic evolution the author describes the processes that bring about evolutionary change and the factors that affect these processes He covers a broad range of subjects placing classical and recent research in perspective and clarifying current controversies *Biology* Cecie Starr,John D. Jackson,Roger Taylor,1991 **American Scientist** ,1998 *Proceedings* ,2009 **Study Guide for 31840 - Biology-First Edition** Neil A. Campbell,1987

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