



Lab 2 Handout – The Making of the Fittest: Natural Selection and Adaptation

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Adapted from: HHMI BioInteractive: *The Making of the Fittest: Natural Selection and Adaptation*

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ALLELE, GENOTYPE, AND PHENOTYPE FREQUENCIES IN ROCK POCKET MOUSE POPULATIONS

INTRODUCTION: The tiny rock pocket mouse weighs just 15 grams, about as much as a handful of paper clips. A typical rock pocket mouse is 172 millimeters long from its nose to the end of its tail, which is shorter than an average pencil. Its impact on science, however, has been enormous. What's so special about this little mouse?

Populations of rock pocket mice are found all over the Sonoran Desert in the southwestern United States. Two varieties occur widely in the area—a light-colored variety and a dark-colored variety. Similarly, there are two major colors of substrate, or surface material, that make up the rocky desert floor. Most of the desert landscape consists of light-colored sand and granite. Here and there, however, separated by several kilometers of light-colored substrate, are patches of dark volcanic rocks that formed from cooling lava. These areas of dark volcanic rock range in age from 1,000 to more than 1 million years old.

Dr. Michael Nachman of the University of Arizona and his colleagues have spent many years researching the genetics of fur color in rock pocket mice. In particular, they were interested in understanding the forces that shape genetic variation in natural populations.

Investigating the adaptive value of different coat colors in rock pocket mice is an example of how scientists are attempting to connect genotype with phenotype for fitness-related traits. In this type of research, investigators try to find the underlying gene or genes for a given adaptation. Examples of other fitness-related traits that researchers are currently investigating are resistance to the pesticide warfarin in rats, tolerance to heavy metals in plants, and antibiotic resistance in bacteria.

PROCEDURE

1. Watch the short film *The Making of the Fittest: Natural Selection and Adaptation*. (10:25 min)

<https://www.biointeractive.org/classroom-resources/making-the-fittest-natural-selection-and-adaptation>

As you watch, record the following information:

- a. What specific trait did researchers' study in this investigation?
- b. How does this trait affect the survival of the mice in different environments?

Black fur in mice

Black fur allowed the pocket mice to adapt better in their environment, where there was a dark lava flow. It allowed them to camouflage better onto the dark rock to avoid predators.

- c. What is the genetic basis of the trait?

There was a mutation in the gene *mc1r*.

2. After watching the film, complete Parts 1–3 that follow.

Making Of The Fittest Natural Selection Answers

Chao Zhang



Making Of The Fittest Natural Selection Answers:

Unplugging the Classroom Hilary Anne Wilder, Sharmila Pixy Ferris, 2017-05-17 Unplugging the Classroom Teaching with Technologies to Promote Students Lifelong Learning provides techniques to help teaching and learning in an age where technology untethers instruction from the classroom from semester seat time and from a single source of expertise The book brings together researchers and practitioners from diverse academic fields including library perspectives and presents interdisciplinary discussions from both theoretical and applied areas It is unique in its goal of bringing educators and librarians together to explore the challenges that are faced by students and faculty in any time any place any path and any pace learning In spite of the fact that the mobile revolution has definitively arrived students and faculty alike aren't ready to make the leap to mobile learning The pressures of technological advances along with the changing nature of learning will demand increasingly profound changes in education Researchers have begun to address this issue but the revolution in mobile communication has not been accompanied by a concomitant growth in pedagogical resources for educators and students More importantly such growth needs to be undergirded by sound learning theories and examples of best practice Provides a hands on resource useful to both novices and experts for technology enabled teaching and learning Gives both discipline specific and cross disciplinary perspectives Discusses discipline specific mobile applications Offers an opportunity to meet the needs of contemporary learners and foster their competencies as lifelong learners Addresses emerging issues in technology and pedagogy

Innovation in Cultural Systems Michael John O'Brien, Stephen Shennan, 2010 Leading scholars offer a range of perspectives on the roles played by innovation in the evolution of human culture In recent years an interest in applying the principles of evolution to the study of culture emerged in the social sciences Archaeologists and anthropologists reconsidered the role of innovation in particular and have moved toward characterizing innovation in cultural systems not only as a product but also as an evolutionary process This distinction was familiar to biology but new to the social sciences cultural evolutionists from the nineteenth to the twentieth century had tended to see innovation as a preprogrammed change that occurred when a cultural group needed to overcome environmental problems In this volume leading researchers from a variety of disciplines including anthropology archaeology evolutionary biology philosophy and psychology offer their perspectives on cultural innovation The book provides not only a range of views but also an integrated account with the chapters offering an orderly progression of thought The contributors consider innovation in biological terms discussing epistemology animal studies systematics and phylogeny phenotypic plasticity and evolvability and evo devo they discuss modern insights into innovation including simulation the random copying model diffusion and demographic analysis and they offer case studies of innovation from archaeological and ethnographic records examining developmental behavioral and social patterns Contributors Andr Ariew R Alexander Bentley Werner Callebaut Joseph Henrich Anne Kandler Kevin N Laland Daniel O Larson Alex Mesoudi Michael J O'Brien Craig T Palmer Adam Powell Simon M Reader Valentine Roux Chet

Savage Michael Brian Schiffer Jeffrey H Schwartz Stephen J Shennan James Steele Mark G Thomas Todd L VanPool

Interact Or Die Joke Brouwer, Arjen Mulder, 2007 Interaction is a defining characteristic of every living being Bodies and objects build connections from networks and then through interaction achieve organization structure memory and heredity the only selection criterion for interaction is whether it works that is whether it is operational Interactivity is on the one hand a method of bringing something into being a form a structure an organization a body an institute a work of art and on the other hand a way of dealing with it BOOK JACKET

Natural Selection and Beyond Charles H. Smith, George Beccaloni, 2008-11-27 Alfred Russel Wallace 1823 1913 was one of the late nineteenth century s most potent intellectual forces His link to Darwin as co discoverer of the principle of natural selection alone would have secured him a place in history but he went on to complete work entitling him to recognition as the father of modern biogeographical studies as a pioneer in the field of astrobiology and as an important contributor to subjects as far ranging as glaciology land reform anthropology and ethnography and epidemiology Beyond this many are coming to regard Wallace as the pre eminent field biologist collector and naturalist of tropical regions Add to that the fact that he was a vocal supporter of spiritualism socialism and the rights of the ordinary person and it quickly becomes apparent that Wallace was a man of extraordinary breadth of attention Yet his work in many of these areas is still not well known and still less recognized is his relevance to current day research almost 100 years after his death This rich collection of writings by more than twenty historians and scientists reviews and reflects on the work that made Wallace a famous man in his own time and a figure of extraordinary influence and continuing interest today

Science of Life: Biology Parent Lesson Plan , 2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bibles world view not evolution s unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns

of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process [Evolution by Natural Selection](#) Michaelis Michael,2015-11-18 A persistent argument among evolutionary biologists and philosophers revolves around the nature of natural selection Evolution by Natural Selection Confidence Evidence and the Gap explores this argument by using a theory of persistence as an intentional foil to examine ways in which similar theories can be misunderstood It discusses Charles Dar **Evolution and Belief** Robert J. Asher,2012-02-23 Asher draws on his experiences as a paleontologist and a religious believer arguing that science does not contradict religious belief

Cracking the GED, 2013 Edition Princeton Review,2012-09-25 If you need to know it it s in this book The Princeton Review s Cracking the GED 2013 Edition has been optimized for on screen viewing with cross linked questions answers and explanations and includes A thorough review of all the subject matter most likely to appear on the test 2 full length GED practice exams Detailed explanations for every question including practice test questions Expert advice on writing a top scoring essay Techniques like Backsolving and Process of Elimination to help you save time [Baby Dinosaurs on the Ark?](#) Janet Kellogg Ray,2021-09-09 A scientific look at creationism from a former creationist A significant number of Americans especially evangelical Christians believe Earth and humankind were created in their present form sometime in the last 10 000 years or so the rationale being that this is presumably the story told in the book of Genesis Within that group any threatening scientific evidence that suggests otherwise is rejected or when possible retrofitted into a creationist worldview But can this uncomfortable blend of biblical literalism and pseudoscience hold up under scrutiny Is it tenable to believe that the Grand Canyon was formed not millions of years ago by gradual erosion but merely thousands of years ago by the Great Flood Were there really baby dinosaurs with Noah on his ark Janet Kellogg Ray a science educator who grew up a creationist doesn t want other Christians to have to do the exhausting mental gymnastics she did earlier in her life Working through the findings of a range of fields including geology paleontology and biology she shows how a literal interpretation of the book of Genesis simply doesn t mesh with what we know to be reality But as someone who remains a committed Christian Ray also shows how an acceptance of the theory of evolution is not necessarily an acceptance of atheism and how God can still be responsible for having created the world even if it wasn t in a single momentary miraculous event **Cracking the GED, 2013 Edition** Geoff Martz,Princeton Review,2012-07-24 A latest edition of a top selling annual reference provides a thorough review of all subject matter most likely to appear in the test full length GED practice exams detailed explanations for every question and expert advice on writing a top scoring essay Original **Cracking the GED 2010** Geoff

Martz, Princeton Review, 2009-08-25 Features the Princeton Review's score raising techniques and answering strategies an updated study guide a subject by subject review of the test's topics advice on studying and two full length sample tests

The Dictionary of Psychology Ray Corsini, 2016-12-05 With more than three times as many defined entries biographies illustrations and appendices than any other dictionary of psychology ever printed in the English language Raymond Corsini's Dictionary of Psychology is indeed a landmark resource The most comprehensive up to date reference of its kind the Dictionary also maintains a user friendliness throughout This combination ensures that it will serve as the definitive work for years to come With a clear and functional design and highly readable style the Dictionary offers over 30 000 entries including interdisciplinary terms and contemporary slang more than 125 illustrations as well as extensive cross referencing of entries Ten supportive appendices such as the Greek Alphabet Medical Prescription Terms and biographies of more than 1 000 deceased contributors to psychology further augment the Dictionary's usefulness Over 100 psychologists as well as numerous physicians participated as consulting editors and a dozen specialist consulting editors reviewed the material Dr Alan Auerbach the American Psychological Association's de facto dictionary expert served as the senior consulting editor As a final check for comprehensiveness and accuracy independent review editors were employed to re-examine re-review and re-approve every entry

Darwin - God's Ambassador George Di Palma, 2009-12-01 This book will reveal some insight of the inner Charles Darwin the tormented mind who sought God but failed to find him who formed a theory but failed to authenticate it Darwin's final years ended as a man in limbo troubled by his accursed book as he called it He did not realise at the time what the future had in store for the strange ideology which he so reluctantly thrust upon the world

The Joy of Science Richard A. Lockshin, 2007-11-05 Scientists have great passion What could be more exhilarating than to go to work every day feeling as if you were once again a nine year old called up to the stage to help the magician with his trick To be a researcher is to always be in the position of having the chance to see how the trick works No wonder that many researchers feel that each new day is the most exciting day to be a scientist It therefore is not surprising that scientists have such trouble communicating with non scientists It is difficult for the scientist to understand a life not focused on the desire to understand But the differences are not that Everyone wants to understand that is one of the factors that make us human The difference is more that scientists limit their definition of comprehension to specific rules of logic and evidence These rules apply and are used in everyday life but often with less rigor or restrictions on evidence

Maryland School Bulletin Maryland. State Dept. of Education, 1933

Oswaal NDA-NA (NATIONAL DEFENCE ACADEMY/NAVAL ACADEMY) 11 Years' Chapter-wise & Topic-wise Solved Papers 2014-2024 (II) | General Ability Test: English | For 2025 Exam Oswaal Editorial Board, 2024-09-26 Welcome to the world of National Defence Academy NDA one of the most prestigious military academies in the world Aspiring to join the NDA and serve your country is a noble and challenging endeavour and cracking the NDA entrance examination is the first step towards achieving that dream This book NDA NA Chapter wise Topic wise Solved

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The

Extinction of Evolution Darek Issacs, 2012-09 The Extinction of Evolution explores what the world would be like if the theory of evolution were actually true Written from the view that man created the idea of God as opposed to God creating man this book painstakingly examines this atheistic mentality in vivid detail What it reveals will surprise you Evolution implemented to its logical conclusion has severe ramifications for humankind When one rejects the foundational truth of God and embraces Darwins alternative to our origins a disastrous chain of events is triggered As you dive deeply into this worldview of evolution you will be exposed to the most frightening environment imaginable where the rape murder and exploitation of the weak are not to be punished but to be applauded In the misguided words of Charles Darwin let the strongest live and the weakest die After traveling through the abyss of evolution a miserable philosophical failure The Extinction of Evolution brings you back to a place of hope where Christ stands above all as the Creator of this remarkable thing we call life The Extinction of Evolution has been compared to The Screwtape Letters a classic work of C S Lewis Like Screwtape this book has a fictional character that is the antagonist His name is Dr Iman Oxidant Dr Oxidant argues for a lifestyle derived from evolutionary ideals This approach makes this book about evolution accessible to the non scientific reader But in doing so Dr Oxidant causes an intense spiritual struggle for the born again believer as he argues for his atheistic evolutionary agenda It is a gripping read that identifies the true nature of evolution in a way that has never been done before **The Health Bulletin** ,1912 **The Hibbert Journal** Lawrence Pearsall Jacks, George Dawes Hicks, 1914

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Table of Contents Making Of The Fittest Natural Selection Answers

1. Understanding the eBook Making Of The Fittest Natural Selection Answers
 - The Rise of Digital Reading Making Of The Fittest Natural Selection Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Making Of The Fittest Natural Selection Answers
 - 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 Making Of The Fittest Natural Selection Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Making Of The Fittest Natural Selection Answers
 - Personalized Recommendations
 - Making Of The Fittest Natural Selection Answers User Reviews and Ratings
 - Making Of The Fittest Natural Selection Answers and Bestseller Lists
5. Accessing Making Of The Fittest Natural Selection Answers Free and Paid eBooks
 - Making Of The Fittest Natural Selection Answers Public Domain eBooks
 - Making Of The Fittest Natural Selection Answers eBook Subscription Services

- Making Of The Fittest Natural Selection Answers Budget-Friendly Options
- 6. Navigating Making Of The Fittest Natural Selection Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Making Of The Fittest Natural Selection Answers Compatibility with Devices
 - Making Of The Fittest Natural Selection Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Making Of The Fittest Natural Selection Answers
 - Highlighting and Note-Taking Making Of The Fittest Natural Selection Answers
 - Interactive Elements Making Of The Fittest Natural Selection Answers
- 8. Staying Engaged with Making Of The Fittest Natural Selection Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Making Of The Fittest Natural Selection Answers
- 9. Balancing eBooks and Physical Books Making Of The Fittest Natural Selection Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Making Of The Fittest Natural Selection Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Making Of The Fittest Natural Selection Answers
 - Setting Reading Goals Making Of The Fittest Natural Selection Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Making Of The Fittest Natural Selection Answers
 - Fact-Checking eBook Content of Making Of The Fittest Natural Selection Answers
 - 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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