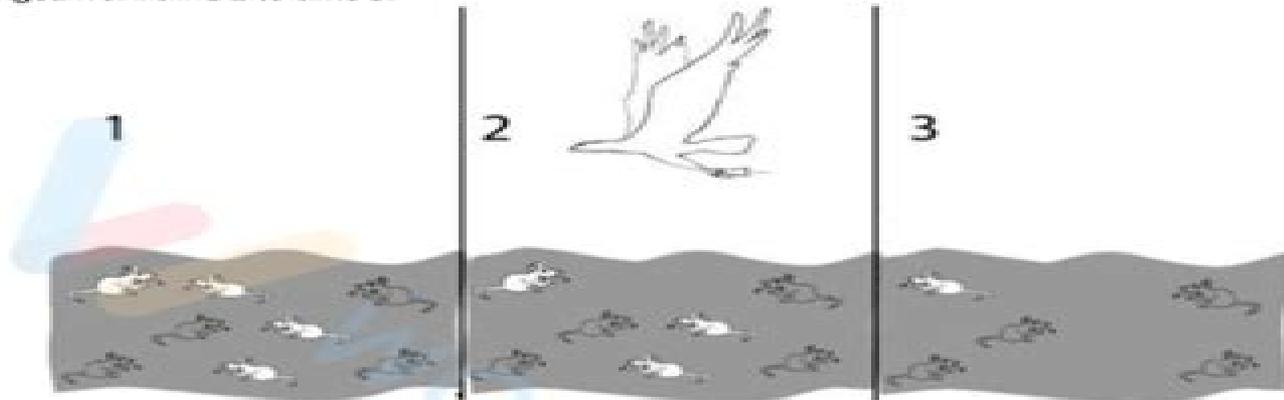


## Evolution by Natural Selection<sup>1</sup>

### I. What is evolution by natural selection?

A population of mice lived in a desert with gray sand. These drawings show how the population changed from time 1 to time 3.



1a. Describe how the population of mice was different at time 3 compared to time 1. Explain what happened to cause this difference.

1b. Suppose the mice in drawing 3 had babies. What color fur do you think most of the babies would have? Explain your reasoning.

Next, you will learn some vocabulary that is useful for analyzing how populations change and why.

- **Evolution** is defined as a change over time in the inherited characteristics of a population.
- **Fitness** is defined as the ability to survive and reproduce.

2. For the mice in the figure, which characteristic increased fitness?

3. The term fitness can have two different meanings, depending on what subject you are discussing.

What does the term fitness mean when biologists are discussing evolution?

What does the term physical fitness mean?

<sup>1</sup> By Drs. Ingrid Waldron and Jennifer Doherty, Dept Biology, University of Pennsylvania. © 2018. Teachers are encouraged to copy this Student Handout for classroom use. A Word file, alternative versions of the simulation, and Teacher Preparation Notes with instructional suggestions and background information are available at <http://usermedia.brynmawr.edu/exchange/waldron/naturalselection>



# Evolution By Natural Selection Worksheet Answers

**JL Elias**



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CK-12 Biology Teacher's Edition CK-12 Foundation,2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook *Cultural Issues: Creation/Evolution and the Bible (Teacher Guide)* Ken Ham,2016-09-06 The vital resource for grading all assignments from the Cultural Issues Creation Evolution and the Bible course which includes Learning answers information and strategies when facing destructive influences found in the workplace or school environments Studying fossils the age of the earth the beginning of life and more in these two volumes focused on points of contention related to the Bible faith and science OVERVIEW This curriculum has been put together to provide the answers to many common objections to biblical worldviews and scriptural authority of the Bible Practical tests are included to strengthen the student s grasp of key concepts and terms while providing critical thinking opportunities to put their knowledge to work Students will learn to apply the Biblical worldview to subjects such as evolution carbon dating Noah s ark and the Flood and dozens more They will discover answers to help know the depths of God s wisdom found in His Word and in His world and why this matters to your life your family and your faith FEATURES The calendar provides lesson planning with clear objectives and the worksheets and tests are all based on the materials provided for the course *Chapter Resource 13 Theory/Evolution Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 An Incomplete Education Judy Jones,William Wilson,2006-04-25 A completely updated revised edition of the classic outfitted with a whole new arsenal of indispensable knowledge on global affairs popular culture economic trends scientific principles and modern arts Here s your chance to brush up on all those subjects you slept through in school reacquaint yourself with all the facts you once knew then promptly forgot catch up on major developments in the world today and become the Renaissance man or woman you always knew you could be How do you tell the Balkans from the Caucasus What s the difference between fission and fusion Whigs and Tories Shiites and Sunnis Deduction and induction Why aren t all Shakespearean comedies necessarily thigh slappers What are transcendental numbers and what are they good for What really happened in Plato s cave Is postmodernism dead or just having a bad hair day And for extra credit when should you use the adjective continual and when should you use continuous An Incomplete Education answers these and thousands of other questions with incomparable wit style and clarity American Studies Art History Economics Film Literature Music Philosophy Political Science Psychology Religion Science and World History Here s the bottom line on each of these major disciplines distilled to its essence and served up with consummate flair In this revised edition you ll find a vitally expanded treatment of international issues reflecting the seismic geopolitical upheavals of the past decade from economic free fall in South America to Central Africa s world war and from violent radicalization in the Muslim world to the crucial trade agreements that are defining globalization for the twenty first century And don t forget to read the section A Nervous American s Guide to Living and Loving on Five Continents before you answer a personal ad in the International Herald Tribune As delightful as it is illuminating An

Incomplete Education packs ten thousand years of culture into a single superbly readable volume This is a book to celebrate to share to give and receive to pore over and browse through and to return to again and again **Science Interactions**,1996 *Advanced Pre-Med Studies Parent Lesson Plan* ,2013-08-01 Advanced Pre Med Studies Course Description Semester 1 From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In *Exploring the History of Medicine* author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in *The Genesis of Germs* He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man s sin and the hope we have in the coming of Jesus Christ Semester 2 *Body by Design* defines the basic anatomy and physiology in each of 11 body systems from a creationist viewpoint Every chapter explores the wonder beauty and creation of the human body giving evidence for creation while exposing faulty evolutionist reasoning Special explorations into each body system look closely at disease aspects current events and discoveries while profiling the classic and contemporary scientists and physicians who have made remarkable breakthroughs in studies of the different areas of the human body 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 **Chapter Resource 36 Animal Behavior Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 [Collaborative Teaching in the Middle Grades](#) Helaine Becker,2005-04-30 This book allows you to team teach with a science specialist to drive home key library and media curriculum goals Eight detailed chapters provide background and complete lesson plans that cover both library and general science skills and

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