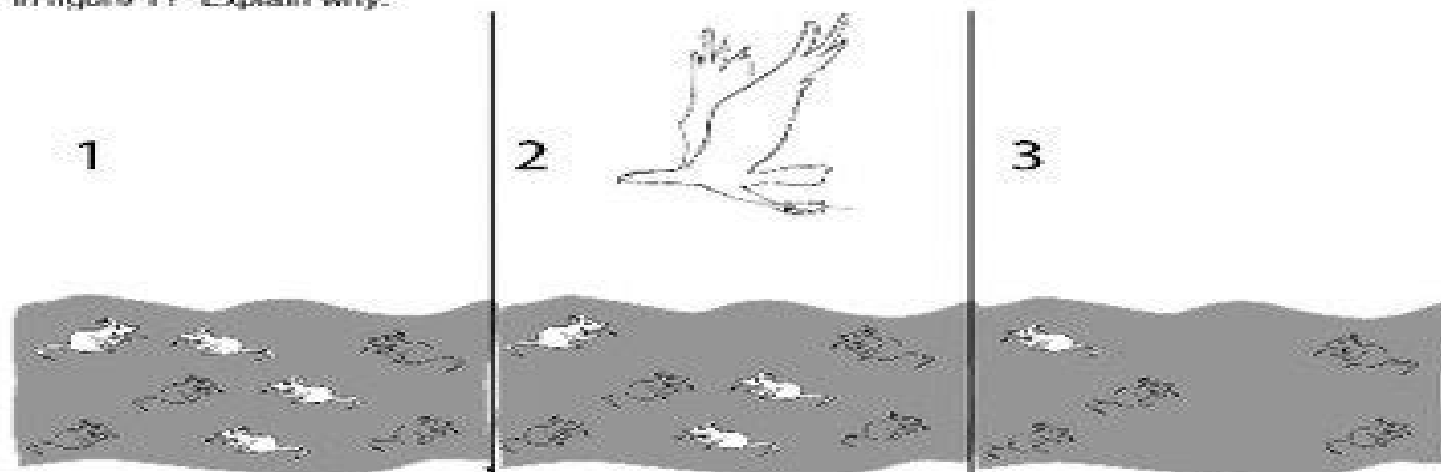


Evolution by Natural Selection

Adapted from the University of California, Los Angeles Life Sciences I Demonstration Manual
Copyright © 1989 by Drs. Jennifer Doherty and Ingrid Waldron, Department of Biology, University of Pennsylvania¹

★ Describe what is happening in figures 1-3. Is the population of mice different in figure 3 than in figure 1? Explain why.



Living things that are well adapted to their environment survive and reproduce. Those that are not well adapted don't survive and reproduce. An **adaptation** is any characteristic that increases **fitness**, which is defined as the ability to survive and reproduce.

★ What characteristic of the mice in figure 1 was an adaptation that increased fitness?

The table describes four female mice that live in a beach area which is mostly tan sand with scattered plants.

Characteristics of each female mouse	Color of Fur			
	Black	Tan	Tan and Black	Cream
Running speed	8 cm/sec.	6 cm/sec.	7 cm/sec.	5 cm/sec.
# pups produced by each female	0	11	3	0
Age at death	2 months	8 months	4 months	2 months

★ According to the definition given for fitness, which mouse would biologists consider the fittest? Explain why this mouse would be the fittest.

★ If a mouse's fur color is generally similar to its mother's color, what color fur would be the most common among the pups?

¹ Teachers are encouraged to copy this student handout for classroom use. A Word file (which can be used to prepare a modified version if desired), Teacher Preparation Notes, comments, and the complete list of our hands-on activities are available at http://serendip.brynmawr.edu/sci_edu/waldron/.

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Life Science (Teacher Guide) Dr. Carl Werner, 2018-05-17 Chapter Discussion Question Teachers are encouraged to participate with the student as they complete the discussion questions The purpose of the Chapter Purpose section is to introduce the chapter to the student The Discussion Questions are meant to be thought provoking The student may not know the answers but should answer with their thoughts ideas and knowledge of the subject using sound reasoning and logic They should study the answers and compare them with their own thoughts We recommend the teacher discuss the questions the student's answers and the correct answers with the student This section should not be used for grading purposes DVD Each DVD is watched in its entirety to familiarize the student with each book in the course They will watch it again as a summary as they complete each book Students may also use the DVD for review as needed as they complete each chapter of the course Chapter Worksheets The worksheets are foundational to helping the student learn the material and come to a deeper understanding of the concepts presented Often the student will compare what we should find in the fossil record and in living creatures if evolution were true with what we actually find This comparison clearly shows evolution is an empty theory simply based on the evidence God's Word can be trusted and displayed both in the fossil record and in living creatures Tests and Exams There is a test for each chapter sectional exams and a comprehensive final exam for each book **Chapter**

Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **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 Bible's 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

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