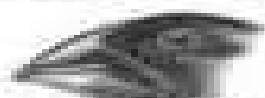


## Exploration: Rainfall and Bird Beaks

**Keywords:** *complextortoise*, beak depth, directional selection, drought, mutations, natural selection, range, stabilizing selection

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

During the voyage of the HMS Beagle (1831–1836), the young Charles Darwin collected several species of finches from the Galapagos Islands. Two of Darwin's finches are shown below.



Large ground finch

1. Which species do you think is best adapted to a diet of small, soft seeds? Explain why you think so.

The *Complex Tortoise* is best adapted to a diet of small, soft seeds. Their beak would not be picking up small seeds.



Large ground finch

2. Which species do you think is best adapted to a diet of large, tough-to-crack seeds? Explain.

**Gizmo Warm-up**

Darwin's finches are one of many types of animals on the Galapagos Islands that have unique **adaptations**, or traits that help an organism survive in its environment. The *Rainfall and Bird Beaks Gizmo™* allows you to explore how rainfall influences the range of beak shapes found in a single finch species.



1. The **beak depth** of a finch is the distance from the tip of the beak to the bottom, as shown.

A. What is the current average beak depth in the Gizmo? \_\_\_\_\_

B. Select the HISTOGRAM tab. Do all the finches have the same beak depth? \_\_\_\_\_

2. Click **Play** (■) and let the simulation play for five years with average rainfall (10 inches/y). Select the GRAPH tab and view the **Finches vs. time** and **Beak depth vs. time** graphs.

A. How does the finch population change? \_\_\_\_\_

B. Does the beak depth change significantly? \_\_\_\_\_

# Comparing Adaptations Birds Answer Key

**Peipei Pang**



## **Comparing Adaptations Birds Answer Key:**

**Frank Schaffer's Biology for Everyday** David Thurlo, 2000 Students learn about important subjects by relating them to events and things that occur in their everyday lives A wealth of interesting activities provide a detailed look into each subject Easy to use activities can be completed individually at school or at home though a few hands on experiments require group work and data sharing A great supplement to any existing curriculum Explores biology topics such as the characteristics of living things the chemistry of biology ecology and environment animals diseases and microbes

**Diversity of Living Things Gr. 4-6** Pat Urie, This resource is divided into four categories classification processes of life under the microscope and the animal kingdom Students will classify organisms and observe the similarities and differences among them Includes skill lists teacher suggestions resource lists evaluation sheets and answer key 35 activities 96 pages

**Power Practice: Life Science, eBook** Pamela Jennett, 2004-09-01 The activity pages in this resource will enhance students understanding of vocabulary functions and process fundamental to living organisms This book includes dozens of diagrams tables and features such topics as photosynthesis metamorphosis ecology Earth s biomes and root systems

**Comparative Cognition** Mary C. Olmstead, Valerie A. Kuhlmeier, 2015-01-15 This book introduces cognitive processes and animal behaviour across species integrating classic studies and contemporary research in psychology biology and neuroscience *Waves, Wetlands, and Watersheds*, 2003

**Comparative Animal Physiology** Mr. Rohit Manglik, 2024-04-29 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **The**

**Comparative Psychology of Intelligence: Macphail Revisited** Michael Colombo, Damian Scarf, Thomas Zentall, 2021-03-15

**Adaptation and the Brain** Susan D. Healy, 2021 What role has natural selection played in shaping the structure and function of the vertebrate brain This accessible book unravels the myriad adaptive explanations that have built up over decades providing both a review and a critique of the work that has sought to explain which natural selection pressures have led to changes in brain size **The Oxford Handbook of Comparative Cognition** Thomas R.

Zentall, Edward A. Wasserman, 2012-03-20 In the past decade the field of comparative cognition has grown and thrived No less rigorous than purely behavioristic investigations examinations of animal intelligence are useful for scientists and psychologists alike in their quest to understand the nature and mechanisms of intelligence Extensive field research of various species has yielded exciting new areas of research integrating findings from psychology behavioral ecology and ethology in a unique and wide ranging synthesis of theory and research on animal cognition The Oxford Handbook of Comparative Cognition contains sections on perception and illusion attention and search memory processes spatial cognition conceptualization and categorization problem solving and behavioral flexibility and social cognition processes including

findings in primate tool usage pattern learning and counting The authors have incorporated findings and theoretical approaches that reflect the current state of the field This comprehensive volume will be a must read for students and scientists who want to know about the state of the art of the modern science of comparative cognition

**Cooperative Breeding in Birds** Peter B. Stacey, Walter D. Koenig, 1990-04-19 Cooperative breeding is an unusual kind of social behaviour found in a few hundred species worldwide in which individuals other than the parents help raise young Understanding the apparently altruistic behaviour of helpers has provided numerous challenges to evolutionary biologists This book includes detailed first hand summaries of many of the major empirical studies of cooperatively breeding birds It provides comparative information on the demography social behaviour and behavioural ecology of these unusual species and explores the diversity of ideas and the controversies which have developed in this field The studies are all long term and consequently the book summarises some of the most extensive studies of the behaviour of marked individuals ever undertaken Graduate students and research workers in ornithology sociobiology behavioural ecology and evolutionary biology will find much of value in this book *Prentice Hall Exploring Life Science* Anthea Maton, 1997

**Ecology and Conservation of Neotropical Migrant Landbirds** Manomet Bird Observatory (Mass.), 1992 For more than a decade ornithologists have suspected that migrant landbird populations in the United States and Canada are declining Fragmented forests in the northern breeding grounds and the loss of habitats in tropical wintering zones have been suggested as two major factors in the population declines This is the first technical volume to focus exclusively on the question of northern hemispheric migratory landbird declines and their conservation More than one hundred leading scholars working in the Americas and the Caribbean report on the problems facing these birds and suggest strategies for research and conservation The book details the basic ecology of many Neotropical migrant landbirds in both temperate and tropical regions Individual reports each with a Spanish abstract probe the reasons for population changes discuss species behavior during summer and winter months and gauge the impact of environmental events on landbirds This book arose out of a 1989 symposium at Woods Hole Massachusetts hosted by the Manomet Bird Observatory a meeting widely credited for bringing Neotropical migrant landbird conservation to the forefront of attention

*Ornithology* Michael L. Morrison, Amanda D. Rodewald, Gary Voelker, Melanie R. Colón, Jonathan F. Prather, 2018-09-03 The essential text for ornithology courses this book will leave students with a lifelong understanding and appreciation of the biology and ecology of birds Aves the birds is the wildlife group that people most frequently encounter With over 10 000 species worldwide these animals are part of our everyday experience They are also the focus of intense research and their management and conservation is a subject of considerable effort throughout the world But what are the defining attributes that make a bird a bird Aimed at undergraduate and graduate students Ornithology provides a solid modern foundation for understanding the life and development of birds Written by renowned experts from around the globe this comprehensive textbook draws on the latest research to create an innovative learning experience Moving beyond bones

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