

Name:

ICSH PREMAN

Date: 3/18/2013

Student Exploration: Rainfall and Bird Beaks

Vocabulary: adaptation, beak depth, directional selection, drought, evolution, 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 Galápagos Islands. Two of Darwin's finches are shown below.



Geospiza magnirostris



Geospiza fortis

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

The *Geospiza Fortis*. It has a small, thin beak for picking small seeds up.

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

The *Geospiza Magnirostris*. It has a large strong beak for breaking big tough seeds.

Gizmo Warm-up

Darwin's finches are one of many types of animals on the Galápagos 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 top of the beak to the bottom, as shown.
 - A. What is the current average beak depth in the Gizmo? **9.99mm**
 - B. Select the HISTOGRAM tab. Do all the finches have the same beak depth? **No, but the majority has a break depth of 10mm**
2. Click **Play** (▶) and let the simulation play for five years with average rainfall (5 inches/yr). Select the GRAPH tab and view the **Finches vs time** and **Beak depth vs time** graphs.
 - A. How does the finch population change? **Every year it drops, then comes back up.**

Bird With Many Beaks Answer Key

JG Myers



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Evidence-Based Reading, Grade 2 ,2015-01-05 Evidence Based Reading for grade 2 offers 64 pages of reading practice It is aligned with the Common Core State Standards and includes a reading comprehension rubric a standards alignment chart and pages of reading passages with evidence based questions to encourage higher level thinking and thoughtful answers Each question is designed so that students learn to support their answers with evidence from the text A variety of literature and informational passages are included to engage learners in a range of texts The Applying the Standards Evidence Based Reading series for students in kindergarten to grade 5 emphasizes close reading by requiring students to answer text dependent questions in both literary and informational texts Various reading and vocabulary skills are covered and a culminating reflection question for each passage engages students higher level thinking skills Of particular emphasis throughout the series are the Common Core State Standards and the teaching of evidence based reading

Milliken's Complete Book of Instant Activities - Grade 4 Deborah Kopka,2010-09-01 With more than 110 easy to use reproducible worksheets this series is ideal for enrichment or for use as reinforcement The instant activities in these books are perfect for use at school or as homework They feature basic core subject areas including language arts math science and social studies

Waves, Wetlands, and Watersheds ,2003 **The Living World** George Brooks Johnson,Jonathan B. Losos,2010 **Our Living World (eBook)** Edward P. Ortleb,Richard Cadice,1993-09-01 This book presents a program of basic studies dealing with living organisms The characteristics of each living kingdom are presented and the diversity among species within the same kingdom is illustrated Topics include algae bacteria fungi and various species of plants and animals Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key

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Burroughs,1887 **Parade of Life** ,1993 **The Principles of Learning and Behavior** Michael Domjan,1998 Domjan s
book provides a comprehensive and systematic introduction to elementary forms of learning that have been the focus of
research for much of the twentieth century The book covers habituation classical conditioning instrumental conditioning
stimulus control aversive control and their applications to the study of cognition and to the alleviation of behavior problems
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discussed and experimental paradigms described **Birds and Bees and Other Studies in Nature ...** John
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