



Name: _____

Date: _____

10-13-2022

Student Exploration: Rainfall and Bird Beaks

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

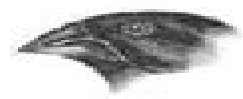
Vocabulary: adaptation, beak depth, directional selection, drought, evolution, natural selection, range, stabilizing selection

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.

Geospiza fortis because it is sharper and can possibly pick up smaller things easier

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

Geospiza magnirostris because the beak is duller and can pick up the larger 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?

9.92

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

no

2. Click **Play** (▶) and let the simulation play for five years with average rainfall (10 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?

decreased by 20

Gizmos Answer Rainfall And Bird Beaks

R Bogdan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Gizmos Answer Rainfall And Bird Beaks

1. Understanding the eBook Gizmos Answer Rainfall And Bird Beaks
 - The Rise of Digital Reading Gizmos Answer Rainfall And Bird Beaks
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmos Answer Rainfall And Bird Beaks
 - 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 Gizmos Answer Rainfall And Bird Beaks
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmos Answer Rainfall And Bird Beaks
 - Personalized Recommendations
 - Gizmos Answer Rainfall And Bird Beaks User Reviews and Ratings
 - Gizmos Answer Rainfall And Bird Beaks and Bestseller Lists
5. Accessing Gizmos Answer Rainfall And Bird Beaks Free and Paid eBooks
 - Gizmos Answer Rainfall And Bird Beaks Public Domain eBooks
 - Gizmos Answer Rainfall And Bird Beaks eBook Subscription Services
 - Gizmos Answer Rainfall And Bird Beaks Budget-Friendly Options

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