



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.

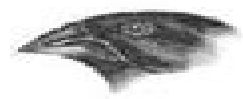
**Vocabulary:** adaptation, beak depth, directional selection, drought, evolution, natural selection, range, stabilizing selection

**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

**Hongru Du**

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.

## **Gizmos Answer Rainfall And Bird Beaks:**

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Gizmos Answer Rainfall And Bird Beaks**

In a world inundated with displays and the cacophony of immediate connection, the profound energy and mental resonance of verbal artistry often diminish into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, nestled within the lyrical pages of **Gizmos Answer Rainfall And Bird Beaks**, a captivating work of literary beauty that pulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this exciting opus guides visitors on a psychological odyssey, gently exposing the latent potential and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect its captivating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

<https://staging.conocer.cide.edu/book/uploaded-files/Documents/Khvatit%20Razrushat%20Pora%20Stroit.pdf>

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