



Name: Celeste Wilkins

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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

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

For little, delicate seeds, I believe the *Geospiza fortis* would be preferable because it has a smaller beak that makes it easier for it to grasp the seeds.

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

Because of its larger and more powerful beak, I believe the *Geospiza Magnirostris* would be preferable for seeds that are difficult to crack.

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.



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

- What is the current average beak depth in the Gizmo?

10.0

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

They are not the same depth, no.

- 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.

Gizmo Rainfall And Bird Beaks Answers

RC Schank

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'RC Schank' text.

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