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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

1. 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.

2. 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.



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?

10.0

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

They are not the same 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.

Gizmo Rainfall And Bird Beaks Answers

Joacim Rocklöv

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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