



Name:

Date:

## 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

# Student Exploration Rainfall And Bird Beaks Gizmo

## Answer Key

**J Elliott**



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