

## Exploration: Rainfall and Bird Beaks

**Keywords:** 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 Galapagos Islands. Two of Darwin's finches are shown below.



*Geospiza septentrionalis*

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

The *Geospiza fortis* is best adapted to a diet of small, soft seeds. Its thin, pointed beak is picking up small seeds.



*Geospiza stricklandi*

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

\_\_\_\_\_

\_\_\_\_\_

**Gizmo Warm-up**

Darwin's finches are one of many types of animals on the Galapagos 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 natural 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? \_\_\_\_\_

B. Select the **HISTOGRAM** tab. Do all the finches have the same beak depth? \_\_\_\_\_

2. Click **Play** (▶) and let the simulation play for five years with average rainfall (10 inches/y). Select the **GRAPH** tab and view the **Finches vs. time** and **Beak depth vs. time** graphs.

A. How does the finch population change? \_\_\_\_\_

B. Does the beak depth change significantly? \_\_\_\_\_

PDF

# Famous Beaks Answer Key

**Daniela Niemeyer**



**Famous Beaks Answer Key:**

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