

Name:

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Student Exploration: Rainfall and Bird Beaks

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.

The *Geospiza fortis*. It has a small, thin beak for picking small seeds up.

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

The *Geospiza magnirostris*. It has a large strong beak for breaking big tough 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? **9.99mm**
 - B. Select the HISTOGRAM tab. Do all the finches have the same beak depth? **No, but the majority has a break depth of 10mm**
2. Click Play (▶) and let the simulation play for five years with average rainfall (5 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? **Every year it drops, then comes back up.**

Rainfall And Bird Beak Answers Gizmo

Daniela Niemeyer



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