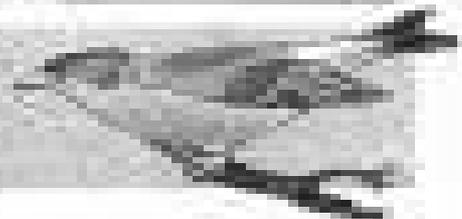


## Laboratory Activity 48 — Student Laboratory Manual

# The Beaks of Finches

A Laboratory Activity for the Living Environment



### Introduction

Evolutionary processes are occurring, again, because they affect organisms with the most favorable traits or features for survival of the next generation. What is occurring, in particular, with finches that study think birds adapted to their environment with variation and inheritance in genetic material that they inherit with mutations. Observations have described the offspring of birds adapted to different island environments that possess different genetic material.

Finches are particularly found in many locations throughout the world, such as Darwin and the numerous other species found on the Galapagos Islands in southern or eastern locations. The great variety of beak adaptations present on the Galapagos Islands is thought to be due to the presence of vast populations of birds adapted with different kinds and amounts of food. Birds having different beaks adapted a great number of differences in food shape and size. Beak shape and composition for example, some finches are omnivorous and eat both seeds and fruit, while the specialized finches depend on seeds.

In this laboratory activity, you will work with different beak-shaped bird species to model their "beak." The model provided represents Darwin's finches in particular, but you will compare with other "beak" species to see which "beak" is best adapted for obtaining a specific food.

### Objectives

In this laboratory activity, you will:

1. learn how different adaptations may affect the survival rate of organisms within a species
2. simulate competition for resources among different species of organisms
3. test the role of the environment in selecting traits

### Safety

1. You should wear safety goggles for this activity.
2. Handle the seeds carefully. They may have sharp edges and could cause injury.
3. Do not breathe dust when birds are being used. If you are handling the models use caution. The "beak" being used by the student has the potential to injure another student.
4. Do not use the end cap of the beak.

**Background:** Based on your class and laboratory on these organisms before, you will need to evaluate the various adaptations Darwin's finches possess. Before you work with the model you will observe Darwin's finches. Darwin's finches are a group of birds that live on the Galapagos Islands. Darwin's finches are a group of birds that live on the Galapagos Islands. Darwin's finches are a group of birds that live on the Galapagos Islands.



# Laboratory Activity 3 The Beaks Of Finches Answer Key

**George Brooks Johnson, Jonathan B.  
Losos**



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