

## Bird Beak Adaptation Lab

### Purpose

Students will learn about the advantages and disadvantages of phenotype variation, by simulating birds with different types of beaks competing for various foods.

### Background

Hopefully, you recall that Darwin was amazed by the variation in the characteristics of plants and animals he encountered on his journey. In any habitat, food is limited and the types of foods available may vary. Animals that have variations that enable them to take advantage of available foods will be more likely to survive. We call beneficial inherited variations adaptations. Adaptations are inherited characteristics that increase an organism's chance of survival. Those with the most helpful adaptations will be the most likely to live long enough to pass on their genes to the next generation. This process ensures that beneficial adaptations will continue in future generations, while disadvantageous characteristics will not. Understanding the concept of adaptive advantage is absolutely required for an understanding of how populations exist in ecosystems as well as the process of evolution.

### Materials

Beaks types: scissors, plastic spoons, tweezers, large binder clip

Food sources: paper clips, rubber bands, toothpicks, dried raisins

Other: plastic cup (bird stomach), cardboard box lids (habitats)

Read through the procedures (#1-10) prior to collecting any data. Once you understand what you will be doing and before you actually begin the procedure, make predictions by recording which food source you think will be easiest to eat for each Beak Type in the Predicted Results Table.

### Procedures

1. Anyone who is not responsible enough to maintain safe behavior at all times will no longer participate in the activity and will become an observer.
2. Each student will randomly be given a spoon, tweezers, binder clip, OR pair of scissors. Each student will also get a plastic cup.
3. You are now a very hungry bird. The tool you have selected is your "beak". You can only use your beak to pick up food.
4. The cup is your stomach. It must remain upright at all times. You must hold your beak in one hand, and your stomach in your other hand, close to your body. Only food that is placed in the cup by the beak has been "eaten".
5. Food items will be placed in your "habitat". When the teacher says, "Go," you, along with the other birds in your group will have 20 seconds to feed. Collect as much food in your stomach as possible until the teacher says, "Stop," or until the food runs out.
6. When the teacher says, "Stop," students will empty their stomachs and count the contents.
7. Record your data in Individual Data Table. Clean up food items by placing them back in the habitat for the next class.
8. Repeat the activity with another food source until all food selections have been recorded.
9. Record your Individual Data as the Class Data Sheet on the board at the front of the room that matches with your assigned Beak Type.
10. Gather class data and record in the Class Data Table.

# Bird Beak Adaptation Lab Answer Key

**Mark Steyvers**

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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