

Name: _____ Date: _____

Biology

Darwin's Finches Procedure

Directions: Fill in all sections to complete the lab worksheet.

Title

Complete the "Title" section of the lab report form with an appropriate title that describes the lab activity. Also, be sure to include your name.

Purpose

Complete the "Purpose" section of the lab report form by including what you will be testing in the lab activity.

Materials

Complete the "Materials" section of the lab report form by including the specific tools you picked out to model the finches' beaks and the objects you picked out to model the food.

Hypothesis

Complete the "Hypothesis" section of the lab report form by providing a fully-supported hypothetical statement regarding each modeled beak type. State which item of food each tool will be best suited for picking up.

Procedure

1. In Table A, determine which tools will be Beaks 1, 2, 3, and 4. Fill in the table with your beak types.
2. In Table A, determine which items of food will be Food Types 1, 2, 3, and 4. Fill in the table with your food types.
3. Set out Food Type 1 (all 30 pieces) on a paper plate and let Beak 1 "compete" for the food at one time.
4. Using your stopwatch, give yourself 10 seconds to pick as many pieces up with your beak as you can.
5. Pick up the food with a simulated beak and put the captured food into your free hand. Do not use your hands to pick up the food. Your free hand will only be used to gather the food you have captured with your beak.
6. When time is up, count and record the number of food items your first beak type captured in that environment.
7. Repeat the process with the same beak, but with the other food types. Be sure to test one food type at a time, capturing food for 10 seconds each time, and then recording in the table.
8. Once you have tried to capture all the food types with Beak 1, move onto Beak 2, 3, and 4. Try to capture each of the different food types, one type at a time. Again, allow yourself 10 seconds for each food type. Record your results in your data table.
9. Analyze your results in order to answer the "Conclusion Questions" on your lab report form.