

Name \_\_\_\_\_ Period \_\_\_\_\_  
Date \_\_\_\_\_

## **BIOLOGY - CHAPTER 17 STUDY GUIDE: EVOLUTION & SPECIATION**

### **BIRD BEAK ADAPTATION LAB**

1. An adaptation is:

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2. An example of an adaptation is:

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3. What is speciation?

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4. Explain the setup and procedure of the Bird Beak Lab in your own words.

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5. Explain your group's results of the Bird Beak Lab in your own words.

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6. How does the idea of 'Survival of the Fittest' apply to the finches on the islands in the lab?

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### **SPECIATION**

7. Scientists may define a species based on \_\_\_\_\_,  
\_\_\_\_\_, or \_\_\_\_\_.

8. Define divergence:

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9. TRUE or FALSE: Speciation normally occurs quickly and can be observed in one generation.

10. What does it mean when two populations experience reproductive isolation?

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11. What are five ways that populations can become reproductively isolated?

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12. Define species:

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13. When a species separates because of a geographic barrier it is known as \_\_\_\_\_ speciation.

14. An example of an animal that is a hybrid, or the offspring of two different species, is a \_\_\_\_\_.

15. In the 'Galapagos Finches' video, the researchers collected data and found that the 13 species of finches found on the islands were more related to each other than \_\_\_\_\_, proving that they shared a common ancestor.