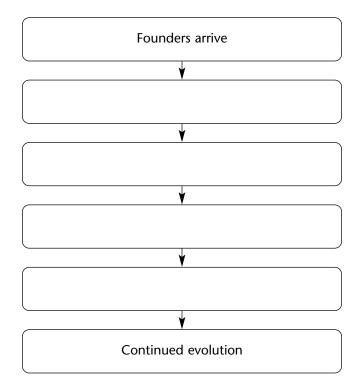
Jame	Class	Date
section 16–3 The Pr	rocess of Speciation	(pages 404–410)
This section explains how species peciation in the Galápagos Island		s of
Introduction (page 404) 1. What is speciation?		
2. Is the following sentence to same gene pool. 3. What does it mean for two	true or false? Individuals in d	•
5. List three ways that reprod	•	
b6. When does behavioral iso		
	lation.	
9. Abert and Kaibab squirrel isolation.		ample of
	e following sentence true or false? Geographic barriers guarantee the formation of species	
11. What is an example of ten	nporal isolation?	
Testing Natural Selectio 12. Is the following sentence t	n in Nature (pages 406–407	

Name Class	Date
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- **13.** Circle the letter of each hypothesis about the evolution of Galápagos finches that was tested by the Grants.
 - **a.** The finches' beak size and shape has enough inheritable variation to provide raw material for natural selection.
 - **b.** The different finch species are the descendants of a common mainland ancestor.
 - **c.** Differences in the finches' beak size and shape produce differences in fitness that cause natural selection to occur.
 - **d.** The evolution of the finches is proceeding slowly and gradually.

Speciation in Darwin's Finches (pages 408-410)

14. Complete the flowchart to show how speciation probably occurred in the Galápagos finches.



15.	How could differences in beak size lead to reproductive isolation?		
	•		

Studying Evolution Since Darwin (page 410)

16.	Why is the study of evolution important?	

WordWise

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Test your knowledge of vocabulary terms from Chapter 16 by solving the clues. Then, copy the numbered letters in order to reveal the hidden message.

Clues **Vocabulary Terms** Type of isolation that prevents Eastern and Western meadowlarks from interbreeding Type of selection that acts against individuals of an intermediate type Term that means the formation of new species Type of selection that causes an increase in individuals at one end of the curve Type of selection that keeps the center of the curve at its current position Kind of pool that contains all the genetic information in a population 13 14 15 Type of isolation that prevents species from interbreeding Type of isolation that led to the evolution of the Kaibab squirrel Type of equilibrium that occurs when allele frequencies do not change Name of the principle stating that allele frequencies will remain constant unless factors cause them to change 20 21 Type of trait produced by more than one gene 24 **Hidden Message:** 11 15 16