SECTION

SPECIATION THROUGH ISOLATION

11.5 Study Guide

KEY CONCEPT

New species can arise when populations are isolated.

VOCABULARY	
reproductive isolation	geographic isolation
speciation	temporal isolation
behavioral isolation	

MAIN IDEA: The isolation of populations can lead to speciation.

Fill in the term from the box that best completes each statement.

	peciation nvironments	gene flow mutation	species mate	gene pools genetic drift		
1.	Two populations are sa between them.	id to be isolated if the	re is no longer any			
2.	Over generations, the _		of isolated population	ons may become more		
3.	and more different. Lisolated populations may become genetically different as they adapt to new					
	,		processes such as m	utation and		
4.	When members of two isolated populations can no longer					
5.	successfully, the popular Reproductive isolation		•			
6.	of new The experiment illustra		nows how just one			
	The experiment mastre		ie o iie just one <u> </u>			

can provide enough genetic difference to result in reproductive isolation.

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STUDY GUIDE, CONTINUED

MAIN IDEA: Populations can become isolated in several ways.

- **7.** Name the three types of barriers that can isolate populations.
- **8.** In the chart below, take notes about the three ways in which populations can become isolated, leading to reproductive isolation.

Type of Isolation	How It Works	Example
behavioral isolation		
geographic isolation		
temporal isolation		

Vocabulary Check

- **9.** What is speciation?
- **10.** Which type of isolation involves factors of time?
- **11.** Which type of isolation can involve mating or courtship rituals?
- **12.** Which type of isolation can involve physical barriers?