Name Date Class			Class
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Populations and Communities • Guided Reading and Study

# **Studying Populations**

This section describes how scientists study population density, size, and growth. The section also explains how factors such as food, space, and weather limit how large populations can become.

### **Use Target Reading Skills**

Before you read, preview the red headings. In the graphic organizer below, ask a question for each heading. As you read, write the answers to your questions.

#### **Determining Population Size**

Question	Answer

## **Determining Population Size**

Match the type of study with its example.

### Type of Study

direct observation
indirect observation
sampling
mark-and-recapture study

#### Example

- **a.** Counting the number of nesting sites in an area
- **b.** Counting all the crabs that live in a tide pool
- **c.** Counting hawks with and without bands on their legs
- **d.** Counting the number of red maples in a small area to estimate the number in the entire forest

Naı	me	Date	Class			
Pop	oulations and Communitie	s • Guided Reading a	and Study			
St	udying Populations	(continued)				
Ch	anges in Population S	ize				
5.	How can populations change in size?					
6.	What is the major way in which new individuals are added to a population?					
7.	The number of births in a population in a certain amount of time is the					
8.						
9.	1 1					
	Is the following sentence t death rate, population size	e decreases	O .			
Ma	tch the term with its defini					
	Term	Definition	a a manufation			
	11. immigration 12. emigration		g a population g into a population			
13.	Is the following sentence t of individuals in a specific		density is the number			
Lin	niting Factors					
14.	An environmental factor that causes a population to decrease is called a(n)					
15.	5. What are some limiting factors for populations?					
16.	The largest population that an area can support is called its					
17.	Is the following sentence true or false? Space is often a limiting factor for plants					
18.	What are some ways weather conditions can limit population growth?					