

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

### Chapter 53: Population Ecology

The next three chapters on population, community, and ecosystem ecology provide the academic backbone for this unit on ecology. Each chapter is a different organizational level in ecology, starting with population ecology. Before beginning your study of each chapter, be sure you have a clear understanding of the terms in the chapter title.

#### *Concept 53.1 Dynamic biological processes influence population density, dispersion, and demographics*

1. What two pieces of data are needed to mathematically determine *density*?
2. What is the difference between density and *dispersion*?
3. Work through Figure 53.2, doing the math to make sure you get the same answer as the text. Note and understand what the letters of the formula mean. Next, try the following problem.

A population ecologist wished to determine the size of a population of white-footed deer mice, *Peromyscus leucopus*, in a 1-hectare field. Her first trapping yielded 80 mice, all of which were marked with a dab of purple hair dye on the back of the neck. Two weeks later, the trapping was repeated. This time 75 mice were trapped, out of which 48 of the mice were marked. Using the formula  $N = ma/c$ , what is the population of mice in the field? (Answer is at the end of this reading guide.)

4. Explain the impact of *immigration* and *emigration* on population density. (To avoid confusion between these two terms, it might help to use this memory trick: immigration is the movement into a population, while emigration is the exiting of individuals from a population.)

# Ap Biology Fred And Theresa Holtzclaw Reading Guide Answers

**Holtzclaw, Theresa K Holtzclaw, Neil A.  
Campbell, Jane B. Reece**



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