

Chapter 53: Population Ecology AP Biology Reading Guide

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 chapter, be sure you have a clear understanding of the terms in the chapter title.

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 $N=mn/x$, 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: [i]mmigration is the movement [i]nto a population, while emigration is the exiting of individuals from a population.)
5. Draw and label the three types of dispersion patterns. Second, and most important what does the dispersion patterns tell us about the population and its interactions?
6. In what population statistic do *demographers* have a particular interest? How is this data often presented?
7. Is your biology class a *cohort*? Explain.
8. Survivorship curves show patterns of survival. In general terms, survivorship curves can be classified into three types. Draw figure 53.6 in detail and explain the three idealized survivorship patterns.
9. In the natural world, many species show survivorship curves that are combinations of the standard curves. How would an open nesting songbird's survivorship curve appear if it was Type III for the first year and then Type II for the rest of its life span? Sketch this curve on the survivorship curve graph in question 8.
10. What does a *reproductive table* show?

53.2 The exponential model describes population growth in an idealized, unlimited environment.

Do not let the math in this section be a problem. Instead of trying to understand the calculus involved, concentrate on the idea of exponential growth, how it is graphed, and what this type of growth indicates about a population.

11. What is the advantage to using per capita birth and death rates rather than just the raw numbers of births and deaths?
12. What will the per capita birth and death rates be if a population is demonstrating *zero population growth*?
13. What does it mean for a population to be in *exponential population growth*?
14. In the graph in Figure 53.7, explain why the line with the value of 1.0 shows a steeper slope that reaches exponential growth more quickly than does the line with the value of 0.5. On this graph, add a third line that approximates a population with an exponential value of 1.25.
15. What are two examples of conditions that might lead to *exponential population growth* in natural populations?

53.3 The logistic model describes how a population grows more slowly as it nears its carrying capacity

16. What is *carrying capacity*?

Chapter 53 Population Ecology Answer Guide

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Chapter 53 Population Ecology Answer Guide:

Decoding **Chapter 53 Population Ecology Answer Guide**: Revealing the Captivating Potential of Verbal Expression

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