

APES Unit 3 Study Guide

Populations

This unit will study the reproductive strategies adopted by species. You will also learn about the growing human population, population dynamics, how humans change the environment, and possible solutions.

Part 1. Textbook Reference

Your textbook pages:

Part 2. Short Answer Questions. (These questions do not have to be written in complete sentences, and you don't need to copy the questions down).

#	Learning Objective & Corresponding Questions
3.1	Identify differences between generalist and specialist species.
	1. Give an example of a generalist. 2. Give an example of a specialist. 3. Which species is likely to be more successful at adapting to climate change: a generalist or a specialist?
3.2	Identify differences between K and r-selected species.
	4. Give an example of a species that uses the K-selected reproductive strategy. 5. Give an example of a species that uses the r-selected reproductive strategy. 6. Which reproductive strategy is an invasive species most likely to use?
3.3	Explain survivorship curves.
	7. Describe the mortality trend for a Type III survivorship curve. 8. Give an example of a Type III species. 9. Describe the mortality trend for a Type I survivorship curve. 10. Give an example of a Type I species.
3.4	Describe carrying capacity. Describe the impact of carrying capacity on ecosystems.
	11. What is carrying capacity and how is it determined? 12. What is an "overshoot"? 13. What follows a population overshoot?
3.5	Explain how resource availability affects population growth.
	14. What happens to a population's size when resources are abundant? 15. How do members of the same species interact when resources become scarce? 16. What happens to a population's size when resources become scarce?

Environmental Science Population Study Guide

R Pring



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