

## Unit 4: Lesson 1- What is an Ecosystem?

### Vocabulary

1. environment (page 162)-

---

---

---

2. Ecosystem (page 163)-

---

---

---

3. Population (page 164)-

---

---

---

4. Community (page 164)-

---

---

---

5. habitat (page 166)-

---

---

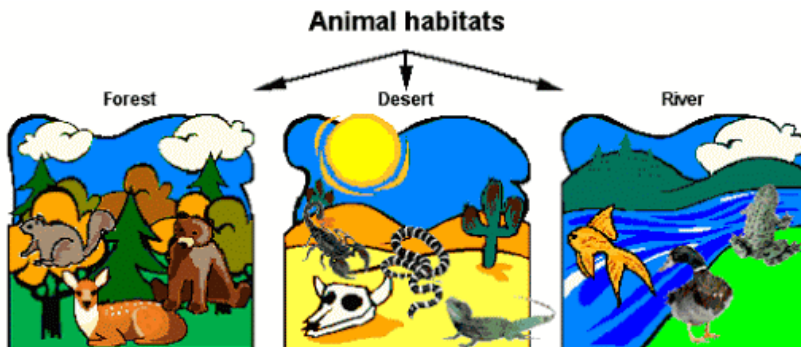
---

6. Niche (page 166)-

---

---

---



## What is an Ecosystem? Pages 162-163

1. What is an environment?

---

---

2. What are abiotic factors?

---

---

3. What is an example of an abiotic factor? \_\_\_\_\_

4. What are biotic factors?

---

---

5. What is an example of a biotic factor? \_\_\_\_\_

6. What affects plants and animals and where they live?

---

---

7. What is an example of an environment and the biotic and abiotic factors that are in that ecosystem?

---

---

---

8. What is an ecosystem?

---

---

9. What are some examples of ecosystems?

---

---

10. Which parts of the environment make it suitable for the black bear and ibis?

---

---

11. Which abiotic characteristics determine which plants can grow in an ecosystem?

---

---

12. What would be the effect on a polar bear and a black bear that somehow switched environments?

---

---

---

13. How would a change in an abiotic part of an environment, such as the amount of water, affect the biotic parts?

---

---

14. What role do abiotic factors such as temperature, water, soil, and air, play in an ecosystem?

---

---

## Populations and Communities Pages 164-165

15. What is a population?

---

---

16. What is an example of a population?

17. What is a community?

---

---

18. What is an example of a community?

19. Certain populations need certain things to survive. What are they?

---

---

20. What is competition?

---

---

21. What are limiting factors?

---

---

22. What is the relationship between limiting factors and competition?

---

---

23. What might happen if the population of eels living in this area increased greatly?

---

---

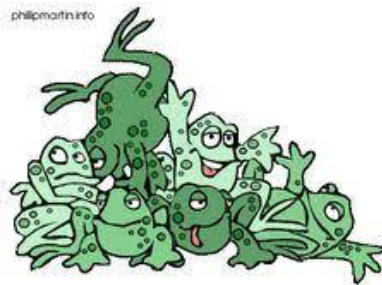
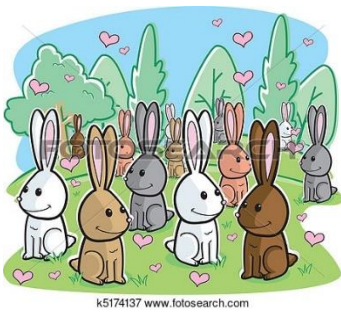
24. On pages 164 and 165, describe some examples of competition that may be taking place in the visuals?

---

---

---

---



## Find Your Niche Pages 166-167

25. What is a habitat?

26. What are examples of habitats?

27. If an organism is living in a good habitat, what does the organism have enough of?

28. What is a niche?

29. How is a niche different from a habitat?

30. What is the different between organisms having a narrow niche versus a broad niche?

31. What is an example of an organism having a narrow niche?

32. What is an example of an organism having a broad niche?

33. Can different populations share a habitat and niche?

34. Why can two different populations share the same habitat but have different niches?

35. How might having a narrow niche determine the habitat of a panda?

36. How might the habitat of a panda change if it had a broad niche instead of a narrow niche?

37. How does having a broad niche affect the habitat of a shark?

38. How would knowing an organism's habitat help a scientists to study it?

39. How is an organism's habitat connected to its niche?

40. Different species of birds that inhabit the same area often have very different types of beaks. Some birds may have long thin beaks while other birds have short think beaks. How might beak shape help different bird populations share the same habitat?

## Diversity Pages 168-169

41. What is diversity?

---

---

42. Why is diversity important?

---

---

43. The more types of organisms in an ecosystem: (finish the sentence)

---

---

44. Why are some ecosystems very diverse while others have only a small number of species?

---

---

45. Where are the more diverse ecosystems located on Earth?

---

---

46. What are some examples of diverse ecosystems?

---

---

47. Where are the least diverse ecosystems located on Earth?

---

---

48. What does it mean for an ecosystem to have a low diversity?

---

---

49. What is an example of a less diverse ecosystem?

---

---

50. How can humans affect diversity?

---

---

51. What are some examples of how humans have damaged ecosystems and reduced the number of species within those ecosystems?

---

---

52. How does a very diverse ecosystem differ from one with very little diversity?

---

---

53. Why are climate and location important factors in determining diversity?

---

---

54. How might the extinction of one species decrease an ecosystem's diversity over time?

---

---

55. How does diversity in an ecosystem help determine the health of an ecosystem?

---

---