

Unit Review: Interactions and Ecosystems

1. What is the Science of Ecology? (p. 6)
2. Describe the work an ecologist would do. (p. 6-7)
3. Describe the basic needs of all living organisms. (p. 8)
4. Explain what an adaptation is and provide examples of how organisms 'adapt' to their environments. (p. 10-11)
5. Describe the interdependent relationships of organisms within a particular ecosystem and give examples. (p. 14-15)
 - a. Symbiosis
 - b. Commensalism
 - c. Mutualism
 - d. Parasitism
6. What impact do certain organisms have on their environment (give specific examples) (p. 16)
7. What are natural resources and how do humans use them? Consider resources of your ecosystem (p. 18-19)
8. How have the interactions that people have within an environment changed over time? (p. 20-21)
9. How do human needs and wants impact natural environments? (p. 22-23)
10. Can we predict what impacts humans have within an ecosystem? (p. 24-25)
11. How can natural disasters impact the environment?
12. What is an ecological footprint and how is it calculated? (p. 29-31)
13. Explain the difference between biotic and abiotic parts of the environment. (p. 38)
14. What is a niche? (p. 38)
 - a. Describe different niches within a particular environment. (p. 40)
15. Explain the difference between a food chain and a food web. (p. 42-43)
16. Explain how the pyramid of numbers can demonstrate the health of an ecosystem. (p. 43)
17. Describe the roles of the scavengers and decomposers. (p. 44-45)
 - a. Scavengers
 - b. Decomposers
18. Describe and Illustrate the Carbon cycle. (p. 49)
19. Describe and Illustrate the Water cycle. (p. 51)
20. Define pollution and give specific examples. (p. 52)
21. Describe primary succession and secondary succession. (p. 56-57)
22. How well do organisms adapt to human invasion in an ecosystem? (p. 60)
23. Describe different ways that pests can be controlled in an ecosystem. (p. 61-62)
24. What impact can the introduction of exotic species, by humans, have on an ecosystem? (p. 62-63)
25. Describe the difference between extinction and extirpation? (p. 64)
26. What are the main reasons why a species could be at risk? (p. 64)
27. What are some techniques used to check (monitor) the condition of an environment? (p. 68-70)