

APES Unit 1 Study Guide
The Living World: Ecosystems

The first unit of AP Environmental Science will introduce and/or reacquaint you with the ecology of the Earth. We will cover ecosystems, biomes, the biogeochemical cycles, food chains, and food webs.

Part 1. Short Answer Questions

| | |
|-----|---|
| 1.0 | <p>Describe abiotic & biotic factors in ecosystems, and give examples of energy converting from one form to another.</p> <ol style="list-style-type: none"> 1. State the First Law of Thermodynamics. 2. What is the main difference between kinetic and potential energy? 3. What is the difference between a community and an ecosystem? 4. Give two examples of biotic factors and two examples of abiotic factors in a pond ecosystem. 5. Why is the Gray Wolf in Yellowstone considered a keystone species? |
| 1.1 | <p>Explain how the availability of resources influences species interactions.</p> <ol style="list-style-type: none"> 6. Define resource partitioning and give an example. 7. Give an example of a mutualistic interspecific interaction. 8. Give an example of commensalism. 9. Give an example of a parasitic symbiotic relationship. |
| 1.2 | <p>Describe the global distribution and principal environmental aspects of terrestrial biomes.</p> <ol style="list-style-type: none"> 10. How are terrestrial biomes characterized? 11. Describe the taiga biome and the community found there. 12. How do desert plants and animals survive? 13. Why does a thick layer of decaying leaf litter typically cover the floors of temperate deciduous forests? |
| 1.3 | <p>Describe the global distribution and principal environmental aspects of aquatic biomes.</p> <ol style="list-style-type: none"> 14. Your friend tells you that freshwater biomes provide the earth with more oxygen than marine biomes. Provide evidence and reasoning against this claim. 15. Describe one marine biome and one freshwater biome. |
| 1.4 | <p>Explain the steps and reservoir interactions in the following biogeochemical cycles: carbon, hydrologic, nitrogen, and phosphorus.</p> <ol style="list-style-type: none"> 16. What is the connection between runoff and water pollution? 17. What conditions lead to the long-term (as in millions of years) storage of carbon? 18. Why is nitrogen fixation important for living things? 19. What are two unique things about the phosphorus cycle that set it apart from the other biogeochemical cycles? |

Environmental Science For Ap Answers

Tobias Bleicker



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