

APES Unit 2 Study Guide
The Living World: Ecosystems Teacher's KEY

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.

Unit 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. Energy is neither created nor destroyed, but transferred. 2. What is the main difference between kinetic and potential energy? Potential energy is stored, kinetic energy is in motion. 3. What is the difference between a community and an ecosystem? A community consists of all the populations of living things in an area. An ecosystem includes the community and the abiotic factors. 4. Give [egg] examples of biotic factors and [egg] examples of abiotic factors in a pond ecosystem. Biotic = bacteria, algae Abiotic = Dissolved oxygen levels, water temperature 5. Why is the Gray Wolf in Yellowstone considered a keystone species? Gray wolves are top predators. Their presence influences the health of the ecosystem as they prevent grazing animals from becoming overpopulated, and alter their behavior.
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. Resource partitioning mitigates competition. It involves using a resource in different ways, at different times, or different parts. For example, many species of warbler can occupy the same tree since they use different parts of the resource. 7. Give an example of a mutualistic interspecific interaction. Mutualism = both species benefit. For example, coral reefs and zooxanthellae algae in their tissues. 8. Give an example of commensalism. One benefits and the other is not affected. For example, Cactus wren nesting on a cactus. 9. Give an example of a parasitic symbiotic relationship. The parasite benefits while the host is harmed (usually weakened). For example, dogfish shark and tapeworm.
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? Climate (long term patterns of temperature and precipitation) and dominant vegetation 11. Describe the taiga biome and the community found there. Taiga is a cold, northern coniferous forest. There are well-defined seasons in this sub-arctic biome. Animals living there have adapted to the cold, snowy winters. Lichens, mosses, and mushrooms are found on the forest floor. A permafrost layer is found in the soil. 12. How do desert plants and animals survive? Adaptations to survive a lack of water. 13. Why does a thick layer of decaying leaf litter typically cover the floors of temperate deciduous forests? In deciduous forests, trees lose their leaves seasonally.

Environmental Science Study Guide Air Answer Key

Richard Bailey



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The Old and New Persistent Organic Pollutants Ravi Naidu, 2025-08-01 Our understanding of persistent organic pollutants POPs their exposure pathways and their impact on the environment and human health is constantly evolving and the list of new and emerging POPs is constantly changing This book provides a comprehensive coverage of new and old hazardous chemicals their physical and chemical properties their breakdown products their fate in the environment and the environmental and human risk impact It discusses global policies based on the United Nations FAO frameworks explains the severity of contamination and raises awareness on the assessment and remediation of contaminated sites in developed and developing countries Features Provides a broad temporal perspective on POPs with contributions from a global team of

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