

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	Describe abiotic & biotic factors in ecosystems, and give examples of energy converting from one form to another. 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	Explain how the availability of resources influences species interactions. 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	Describe the global distribution and principal environmental aspects of terrestrial biomes. 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 Air Study Guide Answers

Terry C. Jones



Environmental Science Air Study Guide Answers:

Environmental Science Michael L. McKinney, Robert M. Schoch, 2003 This edition provides a comprehensive overview and synthesis of current environmental issues and problems

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Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute coronary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient

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