

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 Unit 1 Study Guide Answers

H Kauffman



Environmental Science Unit 1 Study Guide Answers:

Environmental Science: Systems and Solutions Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, Grant Mincy, 2017-12-01 Putting the Science Back into the Environment What is the big picture in environmental science Our authors know and effectively communicate it in Environmental Science Systems and Solutions Sixth Edition Whether you view the subject through a scientific social political or historical lens you ll find the concrete foundations here that work for courses in both environmental science and environmental studies A systems approach is the connective fabric that makes sense of the wealth of topics and data which demonstrates how aspects of the natural environment interconnect with each other and with human society A section on Resource Use and Management introduces the concept of sustainability and another on Dealing with Environmental Degradation discusses threats to the environment and mitigation strategies A bonus section available online on Social Solutions to Environmental Concerns discusses the complex issues impacting the environment and the scientific technologic and human behavioral ways to address them Throughout the text you will find the hard data necessary for a scientific study of the environment and the measured analysis ideal for our time Combining evidence based contemporary information and data with relevant case studies practical applications numerous calculations and modern references Environmental Science Systems and Solutions teaches and engages Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook with two bonus chapters not found in the printed text student practice activities and assessments a full suite of instructor resources and learning analytics reporting tools Thought provoking case studies of current and relevant issues encourage critical thinking Unique What s The Evidence feature invites the reader to review arguments and determine their validity Updated data and statistics and additional tables provide a fresh and current picture of the subject An expanded selection of calculations problems challenges the student and encourages them to apply new practical skills Visually stunning design with new and revised figures photographs and tables Two bonus chapters covering Social Solutions to Environmental Concerns are available online offering instructors the flexibility to include these topics in their course Pollution Ecology Our Planet in the 21st Century Biology Environment Environmental Biology Environmental Health and Safety Education Introduction to Environmental and Sustainability Studies Global Solutions for Sustainability Sustainable Earth 2019 576 pages

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