

APES Unit 3 Study Guide
The Living World: Ecosystems: Thermodynamics, ENERGY

The first unit of AP Environmental Science will introduce and/or recapitulate you with the workings of the Earth. This will cover ecosystems, energy, the biogeochemical cycles, global climate, and food webs.

Unit 3: Short Answer Questions

3.1	<p>Describe what is a biotic factor 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 transformed. 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 two examples of biotic factors and two 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 overeating, and allow other herbivores.
3.2	<p>Explain how the availability of resources influences species interactions.</p> <ol style="list-style-type: none"> 1. 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 eat energy rich seeds from different parts of the tree. 2. Give an example of a mutualistic interaction. Mutualism = both species benefit. For example, coral reefs and crown-of-thorns algae in their tissues. 3. Give an example of commensalism. One benefits and the other is not affected. For example, Cactus worms eating on a tree. 4. Give an example of a parasitic symbiotic relationship. The parasite benefits whether the host is harmed (mutually) or not. For example, dog ticks drink and reproduce.
3.3	<p>Describe the global distribution and geographical environmental aspects of terrestrial biomes.</p> <ol style="list-style-type: none"> 1.1. How are terrestrial biomes often categorized? Climatic (long-term patterns of temperature and precipitation) and dominant vegetation. 1.2. Describe the taiga biome and the coniferous forest biome. Taiga is a cool, northern coniferous forest. They are well-adapted species to this sub-arctic biome. Animals living there have adapted to the cool, snowy winters. Leaves, needles, and needles are found on the forest floor. A permanent layer is found in the soil. 1.3. Show the desert plants and animals survive? Adaptations to survive in deserts. 1.4. Why does a thick layer of decaying leaf litter typically cover the floors of temperate deciduous forests? In deciduous forests, trees lose their leaves annually.

Environmental Science Unit Study Guide Answers

Ying-Ying Zheng

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Diane Alford,Jennifer Hill,2008 *Research in Education* ,1972 **Resources in Education** ,1982 *Environmental Science* Scott Brennan,2004-03 This comprehensive study guide features chapter outlines key terms practice exercises and answers and solutions to selected end of chapter questions from the text Additional suggestions for approaching environmental issues encourage students to think critically *Environmental Science* William P. Cunningham,Mary Ann Cunningham,Barbara Woodworth Saigo,2003-03 This book is intended for use in a one or two semester course in environmental science human ecology or environmental studies at the college or advanced placement high school level Because most students who will use this book are freshman or sophomore nonscience majors the authors have tried to make the text readable and accessible without technical jargon or a presumption of prior science background At the same time enough data and depth are presented to make this book suitable for many upper division classes and a valuable resource for students who will keep it in their personal libraries after their formal studies are completed The goal of this book is to provide an up to date introductory view of essential themes in environmental science along with emphasis on details and case studies that will help students process and retain the general principles **Environmental Science** Eric Jones,1995

Bibliographic Guide to Education ,1991 lists publications cataloged by Teachers College Columbia University supplemented by The Research Libraries of The New York Publica Library **Race to Save the Planet 1991** Wolf,Edward C. Wolf,1990-12 **ENC Focus a Magazine for Classroom Innovators** ,2000 **Race to Save the Planet 1995** Wolf,Edward C. Wolf,Jr G Tyler Miller,1994-08 This concise introduction to environmental science a shorter alternative to Miller s Living in the Environment uses basic and easily understandable scientific laws principles and concepts to help students understand environmental and resource problems and the possible solutions to these problems It includes many full color illustrations and photographs and a writing style that is clear personal and lively Extensive reviewing by hundreds of

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Fundamentals of Human Geography: Man & environment Open University. Media Development Group, 1977

EM, 1999

Zimbabwe National Bibliography, 1983

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