

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.

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. 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.

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Table of Contents Environmental Science Study Guide Air Answer Key

1. Understanding the eBook Environmental Science Study Guide Air Answer Key
 - The Rise of Digital Reading Environmental Science Study Guide Air Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmental Science Study Guide Air Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmental Science Study Guide Air Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmental Science Study Guide Air Answer Key
 - Personalized Recommendations
 - Environmental Science Study Guide Air Answer Key User Reviews and Ratings

- Environmental Science Study Guide Air Answer Key and Bestseller Lists
- 5. Accessing Environmental Science Study Guide Air Answer Key Free and Paid eBooks
 - Environmental Science Study Guide Air Answer Key Public Domain eBooks
 - Environmental Science Study Guide Air Answer Key eBook Subscription Services
 - Environmental Science Study Guide Air Answer Key Budget-Friendly Options
- 6. Navigating Environmental Science Study Guide Air Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmental Science Study Guide Air Answer Key Compatibility with Devices
 - Environmental Science Study Guide Air Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmental Science Study Guide Air Answer Key
 - Highlighting and Note-Taking Environmental Science Study Guide Air Answer Key
 - Interactive Elements Environmental Science Study Guide Air Answer Key
- 8. Staying Engaged with Environmental Science Study Guide Air Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmental Science Study Guide Air Answer Key
- 9. Balancing eBooks and Physical Books Environmental Science Study Guide Air Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmental Science Study Guide Air Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Environmental Science Study Guide Air Answer Key
 - Setting Reading Goals Environmental Science Study Guide Air Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Environmental Science Study Guide Air Answer Key
 - Fact-Checking eBook Content of Environmental Science Study Guide Air Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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