

**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 &amp; biotic factors in ecosystems, and give examples of energy converting from one form to another.</p> <ol style="list-style-type: none"> <li>1. State the First Law of Thermodynamics. <b>Energy is neither created nor destroyed, but transferred.</b></li> <li>2. What is the main difference between kinetic and potential energy? <b>Potential energy is stored, kinetic energy is in motion.</b></li> <li>3. What is the difference between a community and an ecosystem? <b>A community consists of all the populations of living things in an area. An ecosystem includes the community and the abiotic factors.</b></li> <li>4. Give [egg] examples of biotic factors and [egg] examples of abiotic factors in a pond ecosystem. <b>Biotic = bacteria, algae Abiotic = Dissolved oxygen levels, water temperature</b></li> <li>5. Why is the Gray Wolf in Yellowstone considered a keystone species? <b>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.</b></li> </ol>
1.1	<p>Explain how the availability of resources influences species interactions.</p> <ol style="list-style-type: none"> <li>6. Define resource partitioning and give an example. <b>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.</b></li> <li>7. Give an example of a mutualistic interspecific interaction. <b>Mutualism = both species benefit. For example, coral reefs and zooxanthellae algae in their tissues.</b></li> <li>8. Give an example of commensalism. <b>One benefits and the other is not affected. For example, Cactus wren nesting on a cactus.</b></li> <li>9. Give an example of a parasitic symbiotic relationship. <b>The parasite benefits while the host is harmed (usually weakened). For example, dogfish shark and tapeworm.</b></li> </ol>
1.2	<p>Describe the global distribution and principal environmental aspects of terrestrial biomes.</p> <ol style="list-style-type: none"> <li>10. How are terrestrial biomes characterized? <b>Climate (long term patterns of temperature and precipitation) and dominant vegetation</b></li> <li>11. Describe the taiga biome and the community found there. <b>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.</b></li> <li>12. How do desert plants and animals survive? <b>Adaptations to survive a lack of water.</b></li> <li>13. Why does a thick layer of decaying leaf litter typically cover the floors of temperate deciduous forests? <b>In deciduous forests, trees lose their leaves seasonally.</b></li> </ol>

# Environmental Science Guide Answers

**Jin-Ying Zhang**



## **Environmental Science Guide Answers:**

## Decoding **Environmental Science Guide Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Environmental Science Guide Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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