

**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 &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. <b>State the First Law of Thermodynamics. Energy is neither created nor destroyed, but transferred.</b></li> <li>2. <b>What is the main difference between kinetic and potential energy? Potential energy is stored, kinetic energy is in motion.</b></li> <li>3. <b>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.</b></li> <li>4. <b>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</b></li> <li>5. <b>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.</b></li> </ol>
1.1	<p>Explain how the availability of resources influences species interactions.</p> <ol style="list-style-type: none"> <li>6. <b>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.</b></li> <li>7. <b>Give an example of a mutualistic interspecific interaction. Mutualism = both species benefit. For example, coral reefs and zooxanthellae algae in their tissues.</b></li> <li>8. <b>Give an example of commensalism. One benefits and the other is not affected. For example, Cactus wren nesting on a cactus.</b></li> <li>9. <b>Give an example of a parasitic symbiotic relationship. 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. <b>How are terrestrial biomes characterized? Climate (long term patterns of temperature and precipitation) and dominant vegetation</b></li> <li>11. <b>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.</b></li> <li>12. <b>How do desert plants and animals survive? Adaptations to survive a lack of water.</b></li> <li>13. <b>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.</b></li> </ol>

# Environmental Science Study Guide Air Answer Key

**Joacim Rocklöv**



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