

## APES Ch. 1, 2, and Supplement 5 Study Guide

**Objectives:** You do not need to answer any of the bullets under "Objectives." These are goals to keep in mind as we cover these chapters. At the end of this section, you should be able to:

- Describe the term sustainability as it applies to natural capital and sustainable societies.
- Compare and contrast developing countries and developed countries with regards to population growth, wealth, resource use and pollution.
- Determine the doubling time of any population given the rate of population growth.
- Define the Tragedy of the Commons.
- Cite the benefits of pollution prevention vs. pollution clean-up.
- Identify the root causes of environmental problems.
- Identify the principles of sustainability.
- Calculate the ecological footprint of a country.
- Describe the basic process of the scientific method; formulate and test a hypothesis.
- Identify the main components of a system including inputs, throughputs and outputs and the role of feedback loops.
- Describe synergistic interactions.
- Describe the types and structures of matter including atoms and ions, qualities of matter, states of matter and changes in matter.
- Apply the Law of Conservation of Matter to the outputs of systems.
- Compare and contrast the process of fission and fusion and apply the concept of half-life to radioactive decay.

### Textbook References:

Miller, *Living in the Environment*, 15th edition: Chapters 1, 2, and supplement 5 (starting on pg. S16- back of book.)

### Important Vocabulary : Write a brief definition for each word.

<ul style="list-style-type: none"><li>• Exponential vs. Linear Growth</li><li>• Ecology</li><li>• Natural Capital</li><li>• Doubling Time</li><li>• Agricultural revolution</li><li>• Sierra Club</li><li>• Easter Island Case Study</li><li>• Rule of 70</li><li>• Developed vs. Developing Countries</li></ul>	<ul style="list-style-type: none"><li>• per capita GNP/GDP</li><li>• Affluenza</li><li>• Industrial revolution</li><li>• Biodiversity</li><li>• Frontier worldview</li><li>• Ecological footprint</li><li>• Pollution prevention vs. pollution clean-up</li><li>• Prokaryote vs. eukaryote</li></ul>	<ul style="list-style-type: none"><li>• Four principles of Sustainability</li><li>• John Muir</li><li>• CCC</li><li>• Earth Day</li><li>• Synergy</li><li>• Law of conservation of matter</li><li>• Persistence</li></ul>
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### Discussion Questions. Must answer each in complete sentences.

<ol style="list-style-type: none"><li>1. Discuss the difference between point and nonpoint sources of pollution. Provide examples of point and nonpoint sources of air, water and noise pollution.</li><li>2. Describe the "Tragedy of the Commons". Give one example.</li><li>3. Describe three contrasting characteristics of a developed and developing country.</li><li>4. Contrast perpetual, renewable, and nonrenewable resources. Give an example of each.</li></ol>	<ol style="list-style-type: none"><li>5. Give two examples of how poverty and human population growth have a negative effect on the environment.</li><li>6. Contrast control, independent variable, and dependent variable.</li><li>7. Contrast positive and negative feedback loops and give an example of each.</li><li>8. Contrast fission vs. fusion.</li><li>9. Contrast high quality matter and low quality matter. Give an example of each.</li></ol>
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### Math Problems: Show all work and circle your answers.

<ol style="list-style-type: none"><li>1. If the earth's population is approximately 7 billion currently, how long will it take to double in size if the population growth maintains at 2%?</li><li>2. If the GDP of the U.S. is \$15,000,000,000,000, and the population is about 300,000,000, what is the GDP per capita?</li><li>3. If the U.S. population is about 300,000,000, and each person has an ecological footprint of about 10 hectares, what is the total ecological footprint for the U.S. in hectares?</li><li>4. If 1 hectare = 0.01 km<sup>2</sup>, what is the area of the ecological footprint of the U.S. in km<sup>2</sup>?</li><li>5. If Asia's birth rate is 19 per 1,000 people and its death rate is 7 per 1,000 people, what is its growth rate in percent?</li></ol>
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**Xiang Xie**

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