

## 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.

1. Discuss the difference between point and nonpoint sources of pollution. Provide examples of point and nonpoint sources of air, water and noise pollution.
2. Describe the "Tragedy of the Commons". Give one example.
3. Describe three contrasting characteristics of a developed and developing country.
4. Contrast perpetual, renewable, and nonrenewable resources. Give an example of each.
5. Give two examples of how poverty and human population growth have a negative effect on the environment.
6. Contrast control, independent variable, and dependent variable.
7. Contrast positive and negative feedback loops and give an example of each.
8. Contrast fission vs. fusion.
9. Contrast high quality matter and low quality matter. Give an example of each.

### Math Problems: Show all work and circle your answers.

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%?
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?
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?
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>?
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?

# Apes Ch 23 Study Guide

**University of California, Berkeley.  
Anthropology Department**

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**EBOOK: Biology** Peter Raven, George Johnson, Kenneth Mason, Jonathan Losos, Susan Singer, 2013-02-16 Committed to Excellence in the Landmark Tenth Edition This edition continues the evolution of Raven Johnson's Biology. The author team is committed to continually improving the text keeping the student and learning foremost. We have integrated new pedagogical features to expand the students learning process and enhance their experience in the ebook. This latest edition of the text maintains the clear accessible and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology and have been enhanced in this landmark Tenth edition. This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular molecular biology and genomics to offer our readers a text that is student friendly and current. Our author team is committed to producing the best possible text for both student and faculty. The lead author Kenneth Mason University of Iowa has taught majors biology at three different major public universities for more than fifteen years. Jonathan Losos Harvard University is at the cutting edge of evolutionary biology research and Susan Singer Carleton College has been involved in science education policy issues on a national level. All three authors bring varied instructional and content expertise to the tenth edition of Biology.

[From Neuron to Cognition via Computational Neuroscience](#) Michael A. Arbib, James J. Bonaiuto, 2016-11-11 A comprehensive integrated and accessible textbook presenting core neuroscientific topics from a computational perspective tracing a path from cells and circuits to behavior and cognition. This textbook presents a wide range of subjects in neuroscience from a computational perspective. It offers a comprehensive integrated introduction to core topics using computational tools to trace a path from neurons and circuits to behavior and cognition. Moreover the chapters show how computational neuroscience methods for modeling the causal interactions underlying neural systems complements empirical research in advancing the understanding of brain and behavior. The chapters all by leaders in the field and carefully integrated by the editors cover such subjects as action and motor control, neuroplasticity, neuromodulation and reinforcement learning, vision and language, the core of human cognition. The book can be used for advanced undergraduate or graduate level courses. It presents all necessary background in neuroscience beyond basic facts about neurons and synapses and general ideas about the structure and function of the human brain. Students should be familiar with differential equations and probability theory and be able to pick up the basics of programming in MATLAB and/or Python. Slides, exercises and other ancillary materials are freely available online and many of the models described in the chapters are documented in the brain operation database BODB which is also described in a book chapter.

Contributors: Michael A. Arbib, Joseph Ayers, James Bednar, Andrej Bicanski, James J. Bonaiuto, Nicolas Brunel, Jean Marie Cabelguen, Carmen Canavier, Angelo Cangelosi, Richard P. Cooper, Carlos R. Cortes, Nathaniel Daw, Paul Dean, Peter Ford, Dominey, Pierre Enel, Jean Marc Fellous, Stefano Fusi, Wulfram Gerstner, Frank Grasso, Jacqueline A. Griego, Ziad M. Hafed.

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