

## 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.

• Exponential vs. Linear Growth	• per capita GNP/GDP	• Four principles of Sustainability
• Ecology	• Affluenza	• John Muir
• Natural Capital	• Industrial revolution	• CCC
• Doubling Time	• Biodiversity	• Earth Day
• Agricultural revolution	• Frontier worldview	• Synergy
• Sierra Club	• Ecological footprint	• Law of conservation of matter
• Easter Island Case Study	• Pollution prevention vs. pollution clean-up	• Persistence
• Rule of 70	• Prokaryote vs. eukaryote	
• Developed vs. Developing Countries		

### 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 Study Guide Answers

**Jane K. Webb, Ritchie P. Lowry**

## Apes Study Guide Answers:

*The Development of Children Study Guide* Stephanie Stolarz-Fantino,Michael Cole,Sheila R. Cole,Cynthia Lightfoot,2009-03-19 This detailed study guide helps students to understand and retain the material in *The Development of Children* at an even higher level than by reading the text alone Each chapter includes practice tests and exercises key concept reviews guided study questions and section reviews *The Development of Children Study Guide* Michael Cole,Stephanie Stolarz-Fantino,Sheila R. Cole,Cynthia Lightfoot,2004-08-20 This detailed study guide helps students to understand and retain the text material at a higher level than they are likely to achieve by reading the text alone Each chapter includes a variety of practice tests and exercises to help integrate themes that reappear in various chapters Each chapter also includes a review of key concepts guided study questions and section reviews **Study Guide to Accompany Sociology** Jane K. Webb,Ritchie P. Lowry,1977 **AP Environmental Science Premium, 2025: Prep Book with 5 Practice Tests + Comprehensive Review + Online Practice** Barron's Educational Series,Gary S. Thorpe,2024-07-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Environmental Science Premium 2025 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 5 full length practice tests 2 in the book and 3 more online plus detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Environmental Science exam Reinforce your learning with practice questions at the end of each unit that cover all frequently tested topics Learn to think like an environmentalist by reviewing dozens of relevant laws acts and Case Studies that can be cited in your responses to the FRQs Robust Online Practice Continue your practice with 3 full length practice tests and virtual lab experiments on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice for all test and lab questions Gain confidence with scoring to check your learning progress *AP Environmental Science Premium, 2026: Prep Book With 5 Practice Tests + Comprehensive Review + Online Practice* Barron's Educational Series,Gary S. Thorpe,2025-07 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Environmental Science Premium 2026 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent course and exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 5 full length practice tests 2 in the book and 3 more online plus detailed answer explanations for all questions

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**Exploring Psychology, Sixth Edition, in Modules Study Guide** Richard O. Straub,2004-12-06 For every major content section longtime author Richard Straub has divided each module by major topic each section includes a Preview objectives that require short answers and Stepping Through the Section which include detailed fill in the blank questions The Study Guide also includes self tests critical thinking exercises vocabulary and language activities Internet activities and crossword puzzles *Study Guide to Anthropology Today* ,1971 *Student Study Guide to Accompany Fox's Physiological Basis for Exercise and Sport* Susan Muller,Steven J. Keteyian,Merle L. Foss,1998 Written with the physical educator exercise specialist physical therapist and coach in mind this new edition continues to offer the clear presentation insightful explanations depth of coverage and straightforward writing style that students and instructors have come to expect from this leading text originally authored by Edward Fox Inside you'll find the strongest presentation of aerobic and anaerobic training programs and responses available *Student Study Guide* Steven A. Schneider,1986 *Study Guide: Sg Essent Psychology* Santrock,2002-08 **Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis **Study Guide to Accompany Gardner Murphy's A Briefer General Psychology** E. L. Horowitz,1935

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