

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

<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.
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Math Problems: Show all work and circle your answers.

<ol style="list-style-type: none"> 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 km², what is the area of the ecological footprint of the U.S. in km²? 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?

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**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

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Textbook of Dental Anatomy, Physiology and Occlusion Rashmi GS Phulari, 2013-11-30 This textbook is a comprehensive guide to dental anatomy physiology and occlusion alignment for postgraduate dental students Beginning with an introduction to anatomy and tooth development the following chapters provide in depth discussion on deciduous and permanent dentition morphology of teeth and occlusion The final section is dedicated to tooth carving providing step by step methodology Each chapter includes multiple choice questions and answers to help students prepare for exams and features numerous high quality photographs and diagrams with descriptions Two interactive DVDs are included demonstrating tooth carving procedures for different teeth and providing more multiple choice questions for self assessment Key points Comprehensive guide to dental anatomy physiology and occlusion for postgraduate students Complete section dedicated to tooth carving Multiple choice questions in each chapter Includes DVDs demonstrating tooth carving procedures

Human Biology Raymond Pearl, 1991 Includes section Recent literature useful in the study of human biology

Syllabus Series University of California (System), 1920

Juvenile Primates Michael E. Pereira, Lynn A. Fairbanks, 2002-05-30 The first and still the only book focused exclusively on juvenile primates this collection presents original research covering all the major divisions of primates from prosimians to humans Contributors explore the evolutionary history of the juvenile stage in primates differences in behavior between juvenile males and females how juvenile behaviors act both to prepare juveniles for adulthood and to help them survive the juvenile stage how juveniles learn about and participate in social conflict and dominance relationships and the similarities and differences between development of juvenile human and nonhuman primates This edition includes a new foreword and bibliography prepared by the editors Contributors Filippo Aureli Bernard Chapais Marina Cords Carolyn M Crockett Frans B M de Waal Carolyn Pope Edwards Robert Fagen Carole Gauthier Paul H Harvey Charlotte K Hemelrijk Loek A M Herremans Julia A Horrocks Wayne Hunte Charles H Janson Nicholas Blurton Jones Katharine Milton Leanne T Nash Timothy G O'Brien Mark D Pagel Theresa R Pope Anne E Pusey Lal Singh Rajpurohit John G Robinson Thelma Rowell Daniel I Rubenstein Volker Sommer Elisabeth H M Sterck Karen B Strier Carel P van Schaik Maria A van Noordwijk David P Watts and Carol M Worthman

The Cambridge Handbook of Thinking and Reasoning Keith J. Holyoak, Robert G. Morrison, 2005-04-18 The Cambridge Handbook of Thinking and Reasoning is the first comprehensive and authoritative handbook covering all the core topics of the field of thinking and reasoning Written by the foremost experts from cognitive psychology cognitive science and cognitive neuroscience individual chapters summarize basic concepts and findings for a major topic sketch its history and give a sense of the directions in which research is currently heading The volume also includes work related to developmental social and clinical psychology philosophy economics artificial intelligence

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Student Study Guide to Accompany In Search of Ourselves Jackie Pritchard, Toni Tripp-Reimer, 1977

The Sciences, Study Guide James Trefil, Anthony J. Gaudin, Robert M. Hazen, 2000-11-24 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil s text updated content is critical The new third edition has thoroughly updated content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL s are included at the ends of each chapter many of the Science News boxes are updated to show hot topics

Aging in Nonhuman Primates Douglas M. Bowden, 1979

Bioscope Thomas A. Easton, Carl E. Rischer, 1979

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Source Book in Anthropology Alfred Louis Kroeber, Thomas Talbot Waterman, 1920

Study Guide to Accompany Sociology, an Introduction, Second Edition Ann Levine, 1984

American Anthropologist, 1897

"A" Standard Dictionary of the English Language Upon Original Plans Isaac Kaufman Funk, 1893

Bulletin of Books in the Various Departments of Literature and Science Added to the Public Library of Cincinnati During the Year... Public Library of Cincinnati and Hamilton County, 1887

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