

Evolution and Ecology

Environmental Science Unit Plan

Suggested Academic Level: 11-12th grade or 100-level college course

Anticipated Time Required: 10 class periods, including chapter test

Previous Unit: Matter and Energy

Next Unit: Land Ecosystems

Vocabulary: Ecology, organism, population, community, ecosystem, biosphere, habitat, critical factor, optimal range, zone of physiologic stress, zone of intolerance, adaptations, evolution, natural selection, speciation, artificial selection, biodiversity, logistic growth, exponential growth, environmental resistance, overshoot, dieback, competition, symbiosis, mutualism, commensalism, parasitism.

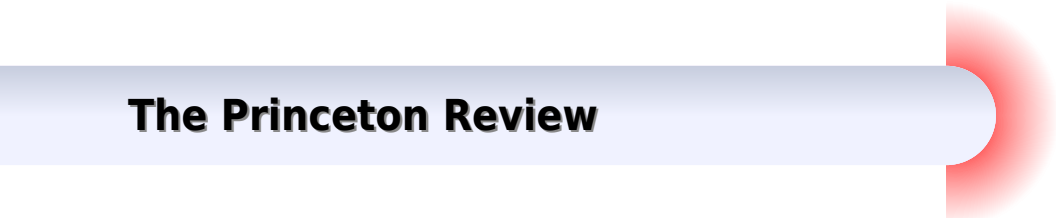
Objectives:

1. Differentiate between each of the different levels of ecological organization.
2. Relate an organism's habitat with its range of tolerance and adaptations.
3. Describe how the process of natural selection can result in speciation.
4. Provide examples of ecological pressures that will cause natural selection to occur.
5. Explain the purpose of the scientific naming system.
6. Contrast logistic with exponential growth.
7. Explain the environmental factors that discourage exponential growth.
8. Compare each of the different types of relationships, including symbiosis.

Lesson Title	Description	Time	Resources
Introduction	Discuss the "Four Pests Campaign" in China and the resulting famine. Define the different levels of organization in ecology. Explain that this unit is only covering biotic factors.	25 minutes	Powerpoint Lecture
Range of Tolerance	Have students complete the range of tolerance worksheet. Discuss the results.	20 minutes	Range of Tolerance Worksheet
Natural Selection	Outline the theory of natural selection. Explain how ecological pressures must be present for natural selection to occur. Discuss the <i>PBS Evolution: Why Sex</i> video clips as	45 Minutes	

2008 Ap Environmental Science Answer Key

The Princeton Review



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Guide to College Majors 2008 Princeton Review (Firm), 2008-02-05 Fully revised and updated for 2008 this resource includes the most current information available on more than 350 of the most popular majors Each profile includes an overview of the major career options and earning potential sample college curricula and more **Princeton Review AP Environmental Science Premium Prep, 20th Edition** The Princeton Review, 2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 Ace the newly digital AP Environmental Science Exam with this comprehensive study guide including 4 full length practice tests with answer explanations timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Targeted review of commonly tested concepts for the AP Environmental Science Exam Detailed figures graphs and charts to illustrate important world environmental phenomena Online digital flashcards to review core content plus study plans and more via youronline Student Tools Premium Practice for AP Excellence 4 full length practice tests 3 in the book 1 online with detailed answer explanations and scoring worksheets Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface Practice drills at the end of each content review chapter plus step by step walk throughs of sample exam questions Quick study glossary of the terms you should know **Guide to College Visits** Princeton Review, 2007-04-10 A practical handbook covers everything needed to plan a successful visit to campuses across the country with information on nearby accommodations for every budget the best and worst times to visit itineraries and campus tours The Cassini-Huygens Visit to Saturn Michael Meltzer, 2015-01-02 Cassini Huygens was the most ambitious and successful space journey ever launched to the outer Solar System This book examines all aspects of the journey its conception and planning the lengthy political processes needed to make it a reality the engineering and development required to build the spacecraft its 2 2 billion mile journey from Earth to the Ringed Planet and the amazing discoveries from the mission The author traces how the visions of a few brilliant scientists matured gained popularity and eventually became a reality Innovative technical leaps were necessary to assemble such a multifaceted spacecraft and reliably operate it while it orbited a planet so far from our own The Cassini Huygens spacecraft design evolved from other deep space efforts most notably the Galileo mission to Jupiter enabling the voluminous paradigm shifting scientific data collected by the spacecraft Some of these discoveries are absolute gems A small satellite that scientists once thought of as a dead piece of rock turned out to contain a warm underground sea that could conceivably harbor life And we now know that hiding under the mist of Saturn s largest moon Titan is a world with lakes fluvial channels and dunes hauntingly reminiscent of those on our own planet except that on Titan it s not water that fills those lakes but hydrocarbons These and other breakthroughs illustrate why the Cassini Huygens mission will be

remembered as one of greatest voyages of discovery ever made

Princeton Review AP Environmental Science

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Energy and Water Development Appropriations Fiscal Year 2008 United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development, 2008

The State of the Nation's Ecosystems 2008 H. John Heinz III Center for Science, Economics, and the Environment, 2008 Revised and updated periodically The State of the Nation's Ecosystems is widely recognized as America's most comprehensive report on the condition of our lands waters and living resources Like the acclaimed first edition this second edition provides nonpartisan scientifically reliable information for policymakers scientists journalists and anyone who is interested in the state of America's environment The State of the Nation's Ecosystems provides a way to take the pulse of America's environment It is organized around the nation's primary ecosystems farmlands forests fresh waters coasts and oceans grasslands and shrublands urban and suburban areas and the nation as a whole For each it identifies what should be measured counted and reported so that decision makers and others can understand the changes that are occurring set priorities for action and measure whether we are achieving our environmental goals Conditions are tracked using approximately 100 indicators agreed upon by hundreds of experts from universities government agencies corporations and environmental organizations The new report refines the set of indicators and supplies data Until its publication there was no environmental equivalent to the kind of key economic indicators that help to gauge the economic health of the nation like gross domestic product The State of the Nation's Ecosystems provides our first set of key environmental indicators It won't eliminate differences of opinion about environmental policy but it will provide a common set of data to inform the debate as well as a common yardstick for measuring the effectiveness of our actions Most importantly it will provide much needed assistance in setting our future agenda

Department of Homeland Security Appropriations for Fiscal Year ... United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security, 2009

Department of Homeland Security Appropriations for Fiscal Year 2010 United States. Congress. Senate.

Committee on Appropriations. Subcommittee on the Department of Homeland Security,2009 *Title 40 Protection of Environment Part 85 to § 86.599-99 (Revised as of July 1, 2013)* Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-07-01 40 CFR Protection of Environment

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