

AP Environmental Science - Topic Outline

The following topic outline is from the AP Environmental Science Course Description. The entire course description as well as lots of other information can be found on the College Board Environmental Science webpage. The address is listed below.
http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2128.html

From the AP Environmental Science Course Description

The following outline of major topics serves to describe the scope of the AP Environmental Science course and exam. The order of topics in the outline holds no special significance, since there are many different sequences in which the topics can be appropriately addressed in the course. The percentage after each major topic heading shows the approximate proportion of multiple-choice questions on the exam that pertain to that heading; thus, the percentage also indicates the relative emphasis that should be placed on the topics in the course.

I. Earth Systems and Resources (10–15%)

- A. Earth Science Concepts
(Geologic time scale; plate tectonics; earthquakes; volcanism; seasons; solar intensity and latitude)
- B. The Atmosphere
(Composition; structure; weather and climate; atmospheric circulation and the Coriolis Effect; atmosphere–ocean interactions; ENSO)
- C. Global Water Resources and Use
(Freshwater/saltwater; ocean circulation; agricultural, industrial, and domestic use; surface and groundwater issues; global problems; conservation)
- D. Soil and Soil Dynamics
(Rock cycle; formation; composition; physical and chemical properties; main soil types; erosion and other soil problems; soil conservation)

II. The Living World (10–15%)

- A. Ecosystem Structure
(Biological populations and communities; ecological niches; interactions among species; keystone species; species diversity and edge effects; major terrestrial and aquatic biomes)
- B. Energy Flow
(Photosynthesis and cellular respiration; food webs and trophic levels; ecological pyramids)
- C. Ecosystem Diversity
(Biodiversity; natural selection; evolution; ecosystem services)
- D. Natural Ecosystem Change
(Climate shifts; species movement; ecological succession)
- E. Natural Biogeochemical Cycles
(Carbon, nitrogen, phosphorus, sulfur, water; conservation of matter)

III. Population (10–15%)

- A. Population Biology Concepts
(Population ecology; carrying capacity; reproductive strategies; survivorship)
- B. Human Population
 - 1. Human population dynamics
(Historical population sizes; distribution; fertility rates; growth rates and doubling times; demographic transition; age-structure diagrams)
 - 2. Population size
(Strategies for sustainability; case studies; national policies)
 - 3. Impacts of population growth
(Hunger; disease; economic effects; resource use; habitat destruction)

Ap Environmental Science Chapter Outline

**Daniel M. Martinez, Ben W.
Ebenhack, Travis P. Wagner**

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AP Environmental Science Gayle Evans, 2020-12-04 REA the test prep AP teachers recommend **The A. P. Environmental Science** Michael Lopatka, 2002-07 Energy Efficiency Daniel M. Martinez, Ben W. Ebenhack, Travis P. Wagner, 2019-05-10 Energy Efficiency Concepts and Calculations is the first book of its kind to provide an applied systems oriented description of energy intensity and efficiency in modern economies across the entire energy chain. With an emphasis on analysis specifically energy flow analysis lifecycle energy accounting economic analysis technology evaluation and policies strategies for adopting high energy efficiency standards the book provides a comprehensive understanding of the concepts tools and methodologies for studying and modeling macro level energy flows through and within key economic sectors electric power industrial commercial residential and transportation. Providing a technical discussion of the application of common methodologies e.g. cost benefit analysis and lifecycle assessment each chapter contains figures charts and examples from each sector including the policies that have been put in place to promote and incentivize the adoption of energy efficient technologies 5 Steps to a 5 AP Environmental Science, 2014-2015 Edition Linda Williams, 2013-07-09 Get ready for your AP exam with this straightforward and easy to follow study guide updated for all the latest exam changes 5 Steps to a 5 AP Environmental Science features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed. This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam. Inside you will find 5 Step Plan to a Perfect 5 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 2 complete practice AP Environmental Science exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed scored and used 5 Steps to a 5 AP Environmental Science, 2012-2013 Edition Linda D. Williams, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That's why we've created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You'll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Earth Science Concepts Atmosphere Global Water Resources Soil and Soil Dynamics Ecosystem Structure Natural Cycles and Energy Flow Population Agriculture and Aquaculture Forestry Land Use Energy Nuclear Energy Renewable Energies Pollution Global Change **5 Steps to a**

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