

Environmental Science Chapter 3 Section 2

1. Describe the composition of the Earth's atmosphere.
 - Nitrogen = 78%
 - comes from the eruptions of volcanoes and decaying plants and animals
 - Oxygen = 21%
 - primarily produced by plants
 - Other gases (including argon, carbon dioxide, methane, and water vapor) = 1%
 - also contains many types of tiny, solid particles – atmospheric dust
2. Describe a characteristic of each layer of the Earth's atmosphere.
 - atmosphere is divided into layers based on changes in temperature that take place at different altitudes
 - A. Troposphere –
 - nearest the Earth's surface
 - warmest layer (temperature decreases as altitude increases)
 - almost all weather occurs here
 - densest atmospheric layer
 - B. Stratosphere –
 - above the troposphere
 - temperatures rise as altitude increases
 - ozone is concentrated in a layer here, where it absorbs ultraviolet rays, protecting organisms from damage
 - C. Mesosphere –
 - above the stratosphere
 - absorbs little heat from the sun
 - air is thin and cold, coldest layer of the atmosphere
 - D. Thermosphere –
 - farthest from the Earth's surface
 - nitrogen and oxygen absorb high energy solar radiation, such as X-rays and gamma rays
3. Explain the 3 mechanisms of heat transfer in Earth's atmosphere.
 - radiation – transfer of energy across space and in the atmosphere
 - conduction – the flow of heat from a warmer object to a colder object when the objects are placed in direct physical contact
 - convection – the transfer of heat by air currents (hot air rises, cold air sinks)
4. Describe the role of greenhouse gases in Earth's atmosphere.
 - Greenhouse gases absorb heat and radiate it back to the surface of the Earth.
 - without the greenhouse effect, the Earth would be too cold for life to exist

Ap Environmental Science Chapter 3 Outline

Courtney Mayer



Ap Environmental Science Chapter 3 Outline:

AP Environmental Science Gayle Evans, 2020-12-04 REA the test prep AP teachers recommend **The A. P. Environmental Science** Michael Lopatka, 2002-07 **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 examexperience online and as downloadable PDFs with interactive elements mimicking theexam 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 **5 Steps to a 5: AP Environmental Science 2023 Elite Student Edition** Courtney Mayer, 2022-08-01 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Environmental Science Elite is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything you Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Why the Elite edition 200 pages of additional AP content 5 minute daily activities to reinforce critical AP concepts AP educators love this feature for bellringers in the classroom Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Environmental Science Teacher s Manual that offers excellent guidance to educators for better use of the 5 Steps resources **5 Steps to a 5: AP Environmental Science 2023** Courtney Mayer, 2022-08-01 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Environmental Science is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything you Need for a 5 3 full length practice

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