

Study Guide: Unit 1 AP Environmental Science

Dimensional Analysis: Be able to answer quantitative questions and convert units using dimensional analysis given the necessary information to construct conversion ratios. Be able to perform conversions of area and volume units.

Scientific Notation: Be able to write numbers in scientific notation. Be able to multiple and divide numbers in scientific notation.

Chapter 1:

Be able to define sustainability and sustainable yield. Be able to define potentially renewable resource, open access resource, and nonrenewable resource and be able to give examples of each type.

Be able to define gross domestic product (GDP), per capita GDP, developing vs. developed nations.

Be able to explain the "tragedy of the commons" and give examples of resources that might be vulnerable to this effect. Know the name of the ecologist who coined this term/ concept. Be able to define open access resources. Be able to explain strategies to reduce the risk of the overexploitation of a commonly shared renewable resource.

Be able to distinguish between reuse and recycling. Be able to explain the difference between closed-loop recycling and open-loop recycling (or downcycling) and be able to give examples.

Be able to define point source and nonpoint source pollution, and be able to classify examples.

Be able to define biodegradable and nondegradable, and be able to give examples of each.

Be able to define ecological footprint and carbon footprint, and be able to identify factors that affect these human impact indicators. Have a general understanding of how the per capita ecological footprint of the average American compares with those of other nations- European Nations, China and India.

Be able to compare input pollution control (prevention) and output pollution control (clean-up). Know what the Precautionary Principle: When substantial preliminary evidence indicates that an activity can harm human health or the environment, we should take precautionary measures to prevent or reduce such harm. "Better safe than sorry."

Be able to define nature services (ecosystem services) and natural capital. Be able to explain several ways that prices often do not include the value of natural capital.

Chapter 2

Be able to define energy and explain the difference between kinetic and potential energy.

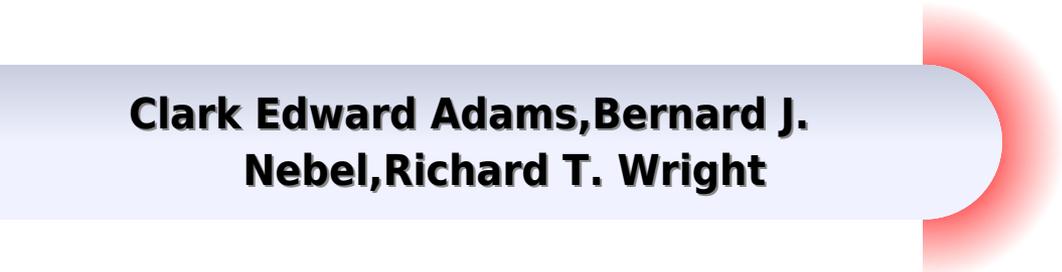
Know that all electromagnetic radiation moves at the speed of light. Be able to define wavelength and frequency. Be able to explain how the relationships between wavelength, frequency and energy as you move through the electromagnetic spectrum from gamma rays to radio waves.

Be able to state and explain the 1st Law of Thermodynamics (Law of Conservation of Energy). Be able to give examples of energy conversions. Be able to identify the energy conversion has occurred when a moving object slows down and comes to a rest.

CONTINUED

Enviornmental Science Study Guide Answers

**Clark Edward Adams, Bernard J.
Nebel, Richard T. Wright**



Enviornmental Science Study Guide Answers:

The book delves into Environmental Science Study Guide Answers. Environmental Science Study Guide Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Environmental Science Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Environmental Science Study Guide Answers
 - Chapter 2: Essential Elements of Environmental Science Study Guide Answers
 - Chapter 3: Environmental Science Study Guide Answers in Everyday Life
 - Chapter 4: Environmental Science Study Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Environmental Science Study Guide Answers. This chapter will explore what Environmental Science Study Guide Answers is, why Environmental Science Study Guide Answers is vital, and how to effectively learn about Environmental Science Study Guide Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Environmental Science Study Guide Answers. This chapter will elucidate the essential principles that need to be understood to grasp Environmental Science Study Guide Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Environmental Science Study Guide Answers in daily life. This chapter will showcase real-world examples of how Environmental Science Study Guide Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Environmental Science Study Guide Answers in specific contexts. The fourth chapter will explore how Environmental Science Study Guide Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Environmental Science Study Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Environmental Science Study Guide Answers.

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