

APES Study Guide

Unit 9: ENERGY – NONRENEWABLE AND RENEWABLE SOURCES

The tenth unit of APES begins our study of energy. We will start with non-renewable energy such as fossil fuels and nuclear power and then we will move into renewable energy. Fossil fuels, the most popular energy sources being used in the world today, are finite and will need to be replaced in the future. Potential replacements for fossil fuels are numerous and each has characteristic advantages and disadvantages.

Textbook Reference:

- Chapter 14 – Geology and Nonrenewable Mineral Resources
- Chapter 15 – Nonrenewable Energy
- Chapter 16 – Energy Efficiency and Renewable Energy

Vocabulary:

Directions: Review key vocabulary, words may appear in quizzes and/or tests. You are not required to write the definitions but are encouraged to review them online

Chapter 14

area strip mining
contour strip mining
high-grade ore
low-grade ore
mineral
mineral resource
mountaintop removal
open-pit mining

ore
overburden
reserves
smelting
strip mining
subsurface mining
surface mining

Chapter 15

coal
crude oil
liquefied natural gas (LPG)
liquefied petroleum gas (LPG)
natural gas
net energy
nuclear fusion
oil sand

peak production
petrochemicals
petroleum
proven oil reserves
shale oil
synthetic natural gas (SNG)
tar sand
unproven reserves

Chapter 16

active solar heating system
cogeneration
combined heat and power systems (CHP)
energy efficiency
geothermal energy

passive solar heating system
photovoltaic (PV) cells
solar cells

Study Guide Questions (SGQ):

Directions: Answer in complete sentences in your composition books. (must be handwritten)

Chapter 14

1. Define mineral resource and list two major types of such resources.
2. Describe three uses of rock as a resource.
3. Describe the life cycle of a metal resource.
4. Describe three major harmful environmental effects of extracting, processing, and using nonrenewable mineral resources.
5. What is surface mining?
6. Define strip mining and distinguish among area strip mining, contour strip mining, and mountaintop removal mining.
7. What is subsurface mining?
8. Describe three harmful environmental effects of mining.
9. What is smelting and what are its major harmful environmental effects?

Apes Study Guide Nonrenewable Energy

Lingjun Ying



Apes Study Guide Nonrenewable Energy:

APES in a BOX: The Review Sessions Benjamin Wood, Dave Holbert, 2013-02-01 APES in a BOX The Review Sessions is a teachers edition of our popular APES Exam study guide APES in a BOX The book is broken into 16 review lessons Each session contains student notes an AP style review quiz and teacher rubrics for quiz grading There is a bonus lesson on tips for the math portion of the exam The most exciting part of this book is that we are selling it as a BLACKLINE MASTER with a single teacher license This means that when you purchase a copy you will be free to make paper copies for all of your students The license only extends to a single teacher and their students Multiple teachers at the same school will need to buy separate copies for each teacher

APES in a BOX Benjamin Wood, David Holbert, 2009-10-14 APES in a Box is an all inclusive study guide for the AP Environmental Science exam This book includes content reviews expert test taking tips and strategies for success on the AP Environmental Science Exam APES in a Box was written by experienced APES teachers Benjy Wood and Dave Holbert

Inquiry Into Life, Study Guide Sylvia S. Mader, 1982 E , 1991 **Italian Science Fiction and the Environmental Humanities** Daniel A. Finch-Race, Emiliano Guaraldo, Marco Malvestio, 2023-11-15 This volume explores Italian science fiction from the nineteenth century to the twenty first covering literary texts films music and visual works by figures as diverse as Maria Rosa Cutrufelli Peter Kolosimo Primo Levi Antonio Margheriti Gilda Musa and Roberto Vacca It broadens the horizons of both Italian studies and the environmental humanities by addressing a long neglected genre and expands our understanding of relations between the ecological the imaginary and the sociopolitical The chapters draw on a variety of methodological frameworks including animal studies ecocriticism ecofeminism eco media studies energy humanities and posthumanism The reader will gain insights into consequential topics such as anthropocentrism speciesism ecomodernist thought environmental justice struggles at the planetary and regional level non human and new materialist ontologies utopian dystopian philosophies and prospects for transitioning beyond the crisis of petro modernity through the construction of post depletion futures Open Access versions of the introduction and six of the book chapters are available on the Liverpool University Press website

Climate Change and Forests Charlotte Streck, Robert O'Sullivan, Toby Janson-Smith, 2009-10-30 The global climate change problem has finally entered the world s consciousness While efforts to find a solution have increased momentum international attention has focused primarily on the industrial and energy sectors The forest and land use sector however remains one of the most significant untapped opportunities for carbon mitigation The expiration of the Kyoto Protocol s first commitment period in 2012 presents an opportunity for the international community to put this sector back on the agenda In this timely wide ranging volume an international team of experts explain the links between climate change and forests highlighting the potential utility of this sector within emerging climate policy frameworks and carbon markets After framing forestry activities within the larger context of climate change policy the contributors analyze the operation and efficacy of market based mechanisms for forest

conservation and climate change Drawing on experiences from around the world the authors present concrete recommendations for policymakers project developers and market participants They discuss sequestration rights in Chile carbon offset programs in Australia and New Zealand and emerging policy incentives at all levels of the U S government The book also explores the different voluntary schemes for carbon crediting provides an overview of best practices in carbon accounting and presents tools for use in future sequestration and offset programs It concludes with consideration of various incentive options for slowing deforestation and protecting the world s remaining forests Climate Change and Forests provides a realistic view of the role that the forest and land use sector can play in a post Kyoto regime It will serve as a practical reference manual for anyone concerned about climate policy including the negotiators working to define a robust and enduring international framework for addressing climate change **Go Golden** Dillon Naber Cruz,2018-12-13 Symptoms of broken systems are all around us due to our over consumptive lifestyles nearly unfettered capitalism failure to live peaceably together and the societal dismissal of nature s limits Climate change is our new reality and we must respond to that immediately Fortunately the world s faith traditions in general and Christianity specifically have given us a spiritual path to follow that can alleviate these problems When the golden rule is coupled with the ethics and principles of permaculture in theory and in practice then humanity and the diversity of other species can harmoniously thrive together Go Golden like a weather vane points the reader towards the path forward **Carolina Science and Math** Carolina Biological Supply Company,2003 ASAP Environmental Science: a Quick-Review Study Guide for the AP Exam Princeton Review,2018-11-15 For students specifically looking to brush up on content right before the exam or to cram in a course s worth of topic review in a short time our new ASAP Exam series is a perfect fit The AP exams are tests that require students to come firmly armed with an understanding of content you can t just bluff or logic your way to a good score These book are for people looking for the lowdown on need to know content only not test taking strategies or drill practice With key content lessons and lots of charts timelines outlines mnemonics call out boxes and key terms dates lists they are also perfectly positioned for visual learners Biology Digest ,1984

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