

## Content, Key Terms and Essential Questions

Describe the system of the Aral Sea in terms of inputs, outputs, and size.

What happens to matter? What about energy?  
Thermodynamics state? How does this relate to the Earth system?

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Thermodynamics, not all of the energy from the gasoline you put in your car goes forward. What happens to the rest?

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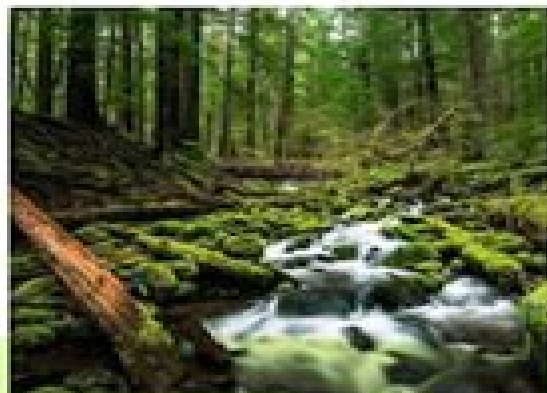
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Pollutant (Examples)	Source(s)	Problem(s)
BOD:	<ul style="list-style-type: none"> <li>Decomposition of dead organic matter</li> <li>Includes agriculture (30%) combined sewer system</li> </ul>	<ul style="list-style-type: none"> <li>Creates a dead zone</li> <li>Killing fish and decreases DO</li> </ul>
Fecal Coliforms (E. coli)	Waste from mammals and birds, agricultural storm runoff (feedlots) and human sewage	Disease, the level of harm depends on the type of fecal coliform
Crude Oil:	<ul style="list-style-type: none"> <li>Tankers, offshore drillings, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Volatile evaporates → air pollution and toxic</li> <li>Coat the feathers of birds so they can't fly</li> <li>Coat the fur of mammals</li> <li>Hard "crust" on the surface of the water</li> <li>Not eaten by fish and birds</li> <li>Tankers can't be cleaned</li> <li>Continue to pollute the water</li> </ul>

# Environmental Science

UNIT 1 Topics, Content, Key Terms and Essential Questions

Policy	Regulates the discharge of pollutants into waters
1977	<ul style="list-style-type: none"> <li>Unlawful to discharge pollutants into surface waters without a permit</li> </ul>
1977	Regulates quality standards for surface waters
1977	Shift over time from a source-oriented and pollutant-by-pollutant focus to a watershed focus
1974	Establishes standards for public drinking water
1970	Authorized the development of comprehensive federal and state regulations to limit emissions from both stationary (industrial) sources and mobile sources
1990	<ul style="list-style-type: none"> <li>Acid Deposition: limits maximum SO<sub>2</sub> emissions from coal-fired power plants (cap-and-trade system for SO<sub>2</sub> emissions permits)</li> <li>Also limits NO<sub>x</sub>, toxics, CFCs and other chlorine chemicals</li> <li>More stringent emission controls on cars and requirements for cleaner burning fuels to reduce urban smog</li> </ul>
Standards	<ul style="list-style-type: none"> <li>Regulates CO, NO<sub>2</sub>, O<sub>3</sub>, Pb, PMs and SO<sub>2</sub></li> <li>Tougher standards for ozone and PM to help children and elderly who are most susceptible to air pollution</li> </ul>
Recovery Act	<ul style="list-style-type: none"> <li>Design, operation &amp; monitoring of sanitary landfills</li> </ul>



## Environmental Systems

Describe what happened to the system of the Aral Sea in terms of its inputs, outputs, and size.

The Aral Sea used to be the fourth largest sea on the planet and people used it for rice and cotton and it wasn't very efficient irrigation. Then in 2014, it became a lake.

What happened to the water to the sea? It was inputting the water to the sea. It was a reservoir. The water was being used for irrigation.

What type of system is Earth with respect to matter? What about energy? Earth is a closed system (it is the atom that makes up) and it is conserved on Earth. It is an open system.

What does the First Law of Thermodynamics state? How does this relate to Earth? It states, "Energy cannot be created or destroyed, it can only change form or be transferred to another system." The energy from the sun is transferred through nuclear fusion in the sun's core. The energy from the sun is transferred through nuclear fusion in the sun's core. The energy from the sun is transferred through nuclear fusion in the sun's core.

What does the Second Law of Thermodynamics state? How does this relate to Earth? The second law of thermodynamics states that you cannot break even, it is changed from one form to another, it always moves from a more useful form to a less useful form.

Based on the second law of thermodynamics, not all of the energy from a car gets used to move the car forward. What happens to the rest? The rest can be good for air conditioning, and charging your phone.

Using a systems analysis approach (inputs vs. outputs), describe why global warming is occurring. Inputs (greenhouse gases) are absorbing and trapping the heat that is being emitted by the Earth's surface. The output is global warming.

How does negative feedback affect the steady state of a system? What is negative feedback? A negative feedback is self-regulating and stabilizing because the output of the system is used to reduce the input.

Describe the system of the Aral Sea in terms of inputs, outputs, and size. The Aral Sea is a closed system with inputs from rivers and outputs to the atmosphere and the ground. The size of the sea is decreasing due to the loss of water to the atmosphere and the ground.

# Environmental Science Guide

**Michael L. McKinney**



## **Environmental Science Guide:**

Environmental Science Forrest M. Mims III, 2019-11-07 What interests you most about the environment Are you concerned about water pollution Air quality Energy production Forest fires Space exploration Your interests and questions matter Illustrated with more than 800 photographs charts and graphics this practical guide allows you to start with your curiosity and follow your questions to answers about the environment The book is organized into units based on the five classical scientific elements of matter Air Earth Fire Space and Water With special call outs on positive and negative environmental impacts you ll be challenged to consider your own role in caring for and understanding the environment **A User's Guide for Planet Earth** Dork Sahagian, 2023-08-03 A User s Guide for Planet Earth Fundamentals of Environmental Science provides students with an exploration of the fundamental components of Earth s environmental systems their interactions and the way society affects and is affected by alterations in climate ecosystems hydrology and various additional factors The text distills essential environmental science concepts into an easy to understand and highly digestible textbook The book begins by exploring several key background issues that lay the foundation for understanding the processes and drivers that control the behavior of the environment It then delves into the main environmental systems of ecosystems biogeochemical cycles water agriculture oceans human health energy and climate culminating in a discussion of the Earth system Students develop a fundamental understanding of how environmental processes are influenced by and can influence humans and broader society In the second edition revision 3 all relevant graphs and charts have been updated to keep the content as timely and accurate as possible A User s Guide for Planet Earth is written for introductory environmental science courses The clear concise style of the text helps students grasp critical concepts without any prerequisite requirements A Statement from the Author in Recognition of Earth Day 2024 Earth Day is a celebration of our planet the environmental goods and services it provides and the need to maintain our local to global environment in such a manner that these goods and services will continue to be provided in the centuries to come Toward that end it is necessary to understand the mechanisms that provide these services as well as the means by which they can be perturbed or destroyed This book is written with that in mind focusing on the science that controls the land water and air upon which we depend rather than the many horror stories that could be written about what happens when we ignore or abuse the various aspects of the planet we call home With facts and figures at everyone s fingertips in the form of smartphones and more there is no need for a book to be cluttered with such discussions as the size of the last oil spill but rather the focus here is on understanding how for example the greenhouse effect works what drives ozone formation and how ozone depletion leads to cancer and how a photoelectric cell can convert sunlight into electricity The book is written for non science majors and does not assume any environmental background As such it is intended to promote a broad public that is sufficiently scientifically literate to make informed decisions in their jobs homes and purchasing that help us all move toward a more sustainable future Pathways

to Learning Environmental Science: A Study Guide for Success Alan Jacobs, 2014-12-31 Pathways to Learning Environmental Science A Study Guide for Success is a workbook and study guide designed to be used in conjunction with standard required texts in Environmental Studies courses Used over the duration of a course it enhances comprehension increases retention and improves test scores The book contains tear out pages that can easily be attached to class notes or other course materials Chapters feature questions and fill in the blank exercises allowing students to check their understanding of the subject matter and assess their progress early on Everything in the book is designed to answer the question What do I need to know The fourteen chapters of the book cover the many areas involved in environmental studies including chemical physical biological and earth science principles earth sphere and biomes Also covered are environmental cycles material and energy resources pollution and environmental laws and regulations Each chapter begins with an explanation of the topic to be discussed and indicates where in a textbook students can find complete discussions figures charts and tables Chapter exercises are presented in multiple choice fill in the blank and matching formats allowing students many opportunities for self evaluation prior to taking class examinations Of special note is the Rap City in Green feature of the book which reviews major concepts in verse form The musicality of the verses enhances appeal and is a highly effective memory aid Pathways to Learning Environmental Science is an excellent support tool for students in general education Environmental Science courses Alan Jacobs received his PhD from Indiana University Bloomington Currently he is a Professor in the Department of Geological and Environmental Sciences at Youngstown State University in Youngstown Ohio where he has taught and conducted research in environmental studies geology and public health *Environmental Science (Speedy Study Guides)* Speedy Publishing, 2015-04-29 Do your part in caring for the environment by first understanding the core elements of environmental science This straightforward study guide will help you come into terms with the problems that change the environment some of which you may have contributed to Also know how science can help correct these problems so you can better support research and help raise public awareness too **Nature in the Round** Nigel Calder, 1973 Se pretende la elaboracion de un cuadro teorico y de una terminologia que facilita la consideracion cientifica del medio ambiente mediante el analisis de las posibles aportaciones de las otras ciencias asi como de los procedimientos de accion del hombre sobre la naturaleza **Pathways to Learning Environmental Science: A Study Guide for Success** Alan Jacobs, 2014-12-31 Pathways to Learning Environmental Science A Study Guide for Success is a workbook and study guide designed to be used in conjunction with standard required texts in Environmental Studies courses Used over the duration of a course it enhances comprehension increases retention and improves test scores The book contains tear out pages that can easily be attached to class notes or other course materials Chapters feature questions and fill in the blank exercises allowing students to check their understanding of the subject matter and assess their progress early on Everything in the book is designed to answer the question What do I need to know The fourteen chapters of the book cover the many areas involved in environmental studies

including chemical physical biological and earth science principles earth sphere and biomes Also covered are environmental cycles material and energy resources pollution and environmental laws and regulations Each chapter begins with an explanation of the topic to be discussed and indicates where in a textbook students can find complete discussions figures charts and tables Chapter exercises are presented in multiple choice fill in the blank and matching formats allowing students many opportunities for self evaluation prior to taking class examinations Of special note is the Rap City in Green feature of the book which reviews major concepts in verse form The musicality of the verses enhances appeal and is a highly effective memory aid Pathways to Learning Environmental Science is an excellent support tool for students in general education Environmental Science courses Alan Jacobs received his PhD from Indiana University Bloomington Currently he is a Professor in the Department of Geological and Environmental Sciences at Youngstown State University in Youngstown Ohio where he has taught and conducted research in environmental studies geology and public health Environmental Science (Speedy Study Guide) Speedy Publishing LLC,2014-12-26 Learning about environmental science with the aid of a study guide helps kids to understand the environment and their place in it Learning about subjects like climate and weather the water cycle environmental cleaning efforts and more gives kids an advantage in the sciences Presenting important information in a straightforward and engaging way environmental study guides can also help kids understand the importance of recycling water conservation alternative energy sources and cleanup Environmental Science Note Taking Guide Michael L. McKinney,1996 Holt Environmental Science Holt Rinehart & Winston,2008 **Environmental Science (Speedy Study Guides)** Speedy Publishing LLC,2015-04-25 Do your part in caring for the environment by first understanding the core elements of environmental science This straightforward study guide will help you come into terms with the problems that change the environment some of which you may have contributed to Also know how science can help correct these problems so you can better support research and help raise public awareness too **Standard Handbook of Environmental Science, Health, and Technology** Jay H. Lehr,Janet K. Lehr,2000 The most comprehensive single volume ever assembled for the environmental professional a one stop all under one roof overview of environmental engineering subject areas and a task simplifying toolkit designed to simplify day to day decisions Covers the varied topics of interest for today s environmental scientist mathematical modeling statistics plant pathology as well as engineering problem solving management decision making and public communication The perfect resource for biologists hydrologists geologists engineers chemists and toxicologists Packed with numerous tables charts illustrations sampling methods monitoring methods testing methods control techniques equipment maintenance procedures and calculation methods Includes lesson filled editorial commentary by many of the nearly 100 environmental scientists who have contributed to this book Environmental Science Forrest M Mims III,Forrest Mims, 3rd,2018-04 What interests you most about your environment Are you concerned about water pollution Air quality Energy production Forest fires Space exploration Those interests and

questions matter This practical guide for readers of any age who are interested in Environmental Science allows for readers to start with their scientific curiosity and follow their questions about the environment A basic primer on Environmental Science this book is organized into units based on the five classical scientific elements of matter Fire Water Air Earth and Atmosphere This organization allows readers to discover each specific element individually and explore how each connects with the others With a strong emphasis on stimulating discussion and activity each unit in the book also includes discussion questions and pro con sections as well as several field reports based on Forrest Mims real life experiments and observations Equally usable as a classroom textbook or supplemental resource or as a personal study book this volume practically challenges readers to consider their own direct and active role in caring for and understanding the environment

**Environmental Science An Explorer s Guide** is illustrated richly throughout with photographs from the author s personal collection gathered directly from his over 35 years of experience as a prolific and well regarded amateur scientist Forrest M Mims III is the bestselling author of *Getting Started in Electronics* and *Engineer s Notebook* He is also the author of more than 15 peer reviewed scientific papers and he has written more than 1 500 columns and articles for many magazines and newspapers including *Nature Science* *Scientific American* and *MAKE Magazine* Mims has been assigned major scientific field studies and projects by NOAA NASA and EPA His development of a handheld instrument for measuring the ozone layer earned a prestigious Rolex award in 1993 and *Discover* magazine has named Mims one of the 50 Best Brains in Science In 2018 Rolex sponsored Mims innovative study of solar UV across Hawaii Island Learn more about Mims science at <http://www.forrestmims.org>

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**Environmental Science** Barbara W. Murck, 2015-05-14 The only popular study guide available on environmental science This new Wiley Self Teaching Guide introduces learners to all the basics of environmental science from air pollution to the water cycle covering both natural systems and human impacts on the environment Using quick quizzes and self tests to reinforce key concepts Environmental Science walks students through this interdisciplinary topic with clarity and thoroughness With 125 photographs and illustrations this book is a unique and valuable resource for anyone interested in learning more about and in preserving our green home

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**Environmental Science for Agriculture and the Life Sciences** William G. Camp, Roy L. Donahue, 1994-01-01

Writing in the Environmental Sciences L. Michelle Baker, 2017-07-14 As an environmental scientist you are used to writing scientific articles but how confident do you feel writing policy or regulatory documents Do you feel you have the

necessary writing skills to influence policy and inform the public This refreshingly clear guide provides environmental scientists and conservation professionals with an effective writing process that can be applied in a range of financial political or organizational contexts Baker outlines a replicable seven step writing formula based on practical experience that acknowledges the complexities inherent in the worlds of endangered species habitat conservation and recovery planning Using the formula scientists will be able to communicate confidently and successfully with a multitude of audiences Baker s guide is written for scientists not professional writers In it best practices abound Practical examples strategies and diagrams guide the reader at every step and selected resources are provided for further reference

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