tions aren't presented as immutable truths, but rather as evidence to be examined and tested.

- Exploring Science essays promote scientific literacy by demonstrating the methodology scientists use to explore complex environmental questions.
- What Can You Do? boxes encourage students to "make a difference" by assuming personal responsibility for environmentally friendly decisions. The text offers many examples of how scientists and citizens have worked to resolve environmental questions, both basic and applied.
- Data Analysis exercises conclude each chapter to give students further opportunities to apply skills and put into practice the knowledge they've gained. We pay special attention to graphing techniques in these boxes because data display is such an important part of scientific information delivery. We don't limit this discussion to simple pie charts and line plots, we use this space to demonstrate a variety of ways to display and analyze data.
- Critical Thinking and Discussion, a challenging, openended set of questions at the end of each chapter, encourages students to think more deeply and independently about issues and principles presented in the chapter. These questions make excellent starting points for discussion sections. They also could be used to practice for essay exams, or might even serve as an essay exam themselves.

What's New in This Edition?

Soogle Earth™ Placemarks

Throughout this book we've identified interesting and important geographical places that help in understanding environmental issues. Icons in the text identify these places and direct the reader to placemarkers on our web page that take you directly to those places in Google EarthTM. You can zoom in for a close view or up to a higher altitude to gain an overall perspective. We believe the exercises we've created around these placemarkers on our website will help students gain a global perspective and will be useful for concept review, class discussion, and lecture enrichment.

Active Learning Exercises

Active Learning exercises encourage students to practice critical thinking skills and apply their understanding of chapter concepts to propose solutions.

Learning Outcomes

Each chapter opens with a list of learning outcomes that will help students organize study priorities. Rather than being imperative requirements, these outcomes have been changed to more friendly questions that lead rather than command.

End-of-Chapter Study Tools

For this edition, we've changed the review questions to practice quizzes to help students prepare for exams. This edition also has a number of new Data Analysis exercises, critical thinking and discussion questions, and conclusions that draw together key ideas in each chapter.

New Chapter Content

- Chapter I has been reorganized to engage students more quickly with a major emphasis on environmental problems and progress. A revised presentation of environmental history puts issues in context while a strengthened discussion of critical thinking and sound science helps students analyze information.
- Chapter 2 has improved presentations on systems, nutrients, isotopes, and ecosystems. A new Data Analysis box invites students to explore nutrient flow in a wetland.
- Chapter 3 has a new Exploring Science box on evolution of cichlids in Lake Victoria and a new What Can You Do? box on working locally for ecological diversity. It also has a revised section on human-caused ecological disturbances. A new Data Analysis box on the classic species competition studies of G. F. Gause gives students some historical background and invites them to learn to read graphs.
- Chapter 4 opens with a new case study on successful family planning in Thailand. The chapter goes on to a new discussion of ecological footprints along with updated world population and demographic data. It ends with a new Data Analysis box on communicating with graphs.
- Chapter 5 includes a modified introduction to biodiversity, an updated discussion of the Endangered Species Act, and a new Active Learning box on climate graphs.
- Chapter 6 has a new case study on British Columbia's Great Bear Rainforest, a major new section on world parks and preserves, and a new Exploring Science box on rangeland conservation in New Mexico.
- Chapter 7 has been extensively revised to include a section that emphasizes dramatic changes in food production and hunger in the past 40 years, an individual's relationship to food production, a new discussion of cheap food policies in the U.S., a new section on locavores, and other sustainable activities. It also includes a new Data Analysis exercise and two new Active Learning exercises.
- Chapter 8 opens with a new case study on successful Guinea worm eradication. It has an added section on the role of environmental factors in global disease and a revised section on conservation medicine including recent disease outbreaks. New information about methicillin-resistant Staph A has been added together with a new section on hormesis and epigenetics.
- Chapter 9 is among the most completely updated in the book. It has a new case study on ocean stabilization (geoengineering) as well as a new discussion of data from ice cores in

correlation with historic climate shifts. It also includes a new Active Learning box on calculating carbon reductions, an updated section on clean air legislation, and a new Data Analysis exercise on graphing air pollution.

- Chapter 10 opens with a revised case study on saving the Chattahoochee. It also has a revised section on water availability correlating with the drought in the southern United States. A new box on China's South-to-North water diversion project has been added as well as an updated section on water privatization and the conflict over water resources. Also included is a new Exploring Science box on the Gulf "dead zone."
- Chapter 11 opens with a revised case study about the problems associated with coal-bed methane wells. This chapter also provides a brief overview of the flooding in June 2008 that occurred in the Midwest. It ends with a new Data Analysis box on exploring recent earthquakes and evaluating erosion on farmland.
- Chapter 12 has a new emphasis on personal energy use and costs, as well as a new Active Learning box on the costs of driving. It includes a new table on energy use and an expanded discussion of Hubbert's peak and peak oil. The energy-efficient building and design section has been expanded and a new section on biomass fuels has been added to reflect changes in policy and technology.
- Chapter 13 has a new section on landfill methane and an expanded discussion on the export of e-waste to poor countries. This chapter also includes a new section on disposal problems for the 300 billion bottles of water consumed annually worldwide.
- Chapter 14 has a revised introduction to urban environments and economics. It also has a new Active Learning box on microlending.
- Chapter 15 opens with a new case study on greening in China. It contains a new section on the emerging grassroots movement to find solutions to global warming and a new section on sustainability that is tied to the opening story on economic development in China.

Acknowledgements

We express our gratitude to the entire McGraw-Hill book team for their wonderful work in putting together this edition. A special thanks to Janice Roerig-Blong (publisher), Marge Kemp (executive editor), Rose Koos (developmental editor), and Ashley Zellmer (editorial coordinator) who oversaw the developmental stages and made many creative contributions to this book. Cathy Conroy has done a superb job of copy editing, correcting errors, and improving our prose. Lori Hancock and LouAnn Wilson found excellent photos for us. Peggy Selle managed the project through production. Tami Petsche (marketing manager) has supported this project with her enthusiasm and creative ideas. This text has had the benefit of input from more than 400 researchers, professionals, and instructors who have reviewed this book or our larger text, *Environmental Science: A Global Concern.* These reviewers have helped us keep the text current and focused. We deeply appreciate their many helpful suggestions and comments. Space does not permit inclusion of all the excellent ideas that were provided, but we will continue to do our best to incorporate the ideas that reviewers have given us. In addition, all of us owe a great debt to the many scholars whose work forms the basis of our understanding of environmental science. We stand on the shoulders of giants. If errors persist in spite of our best efforts to root them out, we accept responsibility.

The following individuals provided reviews for this book. We thank them for their suggestions.

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Guided Tour

Application-based learning contributes to engaged scientific investigation

Case Studies

All chapters open with a real-world case study to help students appreciate and understand how environmental science impacts lives and how scientists study complex issues.

New! Google Earth™ **Placemarks**

Google Earth[™] interactive satellite imagery gives students a geographic context for global places and topics discussed in the text. Google EarthTM icons indicate when to visit the text's website, where students will find links to locations mentioned in the text, and corresponding exercises that will help them understand environmental topics. Placemark links can be found at www .mhhe.com/cunningham5e.

CASE STUDY

Ocean Fertilization

gases from the air. You'll learn in this chapter that numerous approaches for envis-

en suggested

paces from the air. We ill team that the chapter that numerous approach tions redoctions and carbon sequenciation have been age that days they can be taken using existing technology and the standing save movey. Some, like costand that days they can be taken using existing technology and the standing save movey. Some, like costand that days the movey to four the cost terming to order of down. Will again cells, stimulated by full again cells, stimulated by while gerum mitrations to the costand recurstandly de and sink to the hol-recurstandly de and sink to the hol-ment of which they we absorbed by costand the growing fixed algo-ing the cost or costand the protocol productions depleted by extern value costaphication offen meta-adia estrophication costs mitrations which almost costing reas and algo-tich almost costand protocol south almost order (fixed costs, "ini-which almost costing reas and algo-ming and the cost costs and the south the cost costs and the restored in the costs and the restored in the cost costs and the restored in the costs and the restored in the costs and the restored in the Sometimes excess nutrients result in blooms of highly taxic algae and dinoflagellates. Many scientists worry that sensitive consystems.



We five at the bottom of a virtual ocean of air that extends upward about 500 km (300 mi). In the layer closest to the earth's surface, known as the troposphere, the air moves ceaselessly, flowing, swirling, and continually redistributing heat and moisture from

Principles of Environmental Science 200

as coral reefs, which als seing stressed by climate re being stress od human intr and human intrusions, might be fatally damaged by efforts to change

failing vanged by elifers is change the end benission. The Reserve, at least two commercial somparies have ablowed anomator of parts for Experision for Desire Chy, California, Experts to the Ceptoration of Desire Chy, California, Experts to Strand 2010 (2010 ers of parts) and in an or in a 20 to 100 1m dama and of the Parific about 2010 more of the California dama di the Apple and the Apple and Apple and Apple and Apple the Apple and Apple and Apple and Apple and Apple the Apple and Apple and Apple and Apple and Apple the Apple and Apple and Apple and Apple and Apple and Apple the Apple and Apple and Apple and Apple and Apple and Apple the Apple and Apple and Apple and Apple and Apple and Apple and Apple the Apple and A

In 2007, the International Maritime Deganization, the international body that administers the Law of the Sea, declared that all ocean fertilaction projects fail under their jurisdiction. They didn't han these activities outlight, but they expressed concern about constricted consequences and unknown ecological efforts. Many environmental groups, cheered this intervention, but others want that see

In intervention, but others warm that see meed to do everything in core power to combut global warming. What doys think's 16 the trick of geoengineering worth its possible benefits? If your were a delegate to the Law of the Sea Convention, what monitoring resp and coological air fagurant, would you impose on companies warming to replete this technology? A moior part of this chapter with

A major part of this chapter will

A mijor part or this chapter will be devoted to air pollutants and global climate change and solat we might do abent them. First, however, in order to understand our climate system better, we'll look at the factors that normally shape our weather and climate.

one part of the globe to another. The composition and behavior of the troposphere and other layers control our weather (daily temperature and moisture conditions in a place) and our climate

(long-term weather patterns). The earth's earliest atmosphere probably consisted mainly of hydrogen and helium. Over billions of years, most of that hydrogen and helium diffused into space. Volcanic emissions added carbon, nitrogen, oxygen, suffur, and other elements to the atmosphere.

http://www.mhbe.com/cunningham5e

Data Analysis

At the end of each chapter, these exercises give students further opportunities to apply skills and analyze data.



Is it possible to show relationships between two dependent variables on the same graph? Sometimes that's desirable when you want to make comparisons between them. The graph on page 198 does just that. It's a description of how people perceive different risks. We judge the severity of risks based on how familiar they are and how much control we have over our exposure.

• Take a look at the different risks in Figure 1. Make a list of about 5 that you consider most dangerous. Then list about 5 that you think are least dangerous.

Figure 9.1 A massive plankton bloom fills the ocean off the coast of

· Do most of your most dangerous activities/items fall into one quadrant? What are the axes of the graph? Do the ideas on the axes help explain why you consider some activities more dangerous than others?

New! Active Learning

Students will be encouraged to practice critical thinking skills and apply their understanding of newly-learned concepts and to propose possible solutions.

Active Learning

Calculating Probabilities

You can calculate the statistical danger of a risky activity by multiplying the probability of danger by the frequency of the activity. For example, in the United States, 1 person in 3 will be injured in a car accident in their lifetime (so the probability of injury is 1 per 3 persons, or $\frac{1}{3}$). In a population of 30 car-riding people, the cumulative risk of injury is 30 people \times (1 injury/3 people) = 10 injuries over 30 lifetimes.

- If the average person takes 50,000 trips in a lifetime and the accident risk is ¹/₃ per lifetime, what is the probability of an accident per trip?
- 2. If you have been riding safely for 20 years, what is the probability of an accident during your next trip?

swers: 1. Probability of injury per trip = $(1 \text{ injury}/3 \text{ lifetimes}) \times 150,000 \text{ trips. 2. 1 in 150,000 trips. 2. 1 in 150,000. arised with the same chance each time.$

What Do You Think?

This feature provides challenging environmental studies that offer an opportunity for students to consider contradictory data, special interest and conflicting interpretations within a real scenario.

WHAT DO YOU THINK?

Cultural Choices and the Rate of Population Growth

The good news is that the human population on earth may never double again. The bad news is that it may take a centrary to stabilize. Meanwhile, the choices we made individually, and collectively through our political, economic, and cultural actions, will determine whether it will be a pleasant, or not so pleasant, hundled years. The choices are already being made in India, where two different statist are taking two very different approaches to population growth.

made in India, where two different staffs are taking (wo very different approaches to population growth. In 1999, having added inner than 180 million people in just a decade, India reached a population of L biffinin hardnes. If current growth rates persist, India will have at least 1.63 hiffini residents in 2050 and will suppass China as the world's most populous country. How will this country, where more than a quarter of its inhabitance live in abject povery. Feed, house, educate, and employ all those being added each year? A fieree debate is taking place about how to country India's population, with rantifications for the rest of the world as well.

On one side off this (see are those works) which the best way to reduce the number of children isoric is povery cradication and progress for warmen. Drawing on social justice principles established at the 1994 UN Conference on Population and Development in Caino, some argue that responsible economic development, a brand-based social welfare system, education and entropwerment on women, and high-paulity health care—including family planning services—are essential components of pepulation control. Without progress in these areas, they believe, elitors to provide contraceptives or encourage sterilization are futile.

On the other side of this debate are those who contend that, while social progress is an admirable goal. India doesn't have the time or



Its annual growth rate of 3.7 percent suggests that India's population could double in 41 years, becoming the world's most population county by 2050. India's (Later have Laten different approaches to slow population growth. Despite its poverty. Kerab has a total fortility rate lower than the United States.

Exploring Science

Exploring

Current environmental issues exemplify the principles of scientific observation and data-gathering techniques to promote scientific literacy.

Studying the Gulf Dead Zone

What Can You Do?

Practical ideas that students can employ to make a positive difference in our environment.

certain locations off the Gulf Coast of Louisi- ana were emptied of all aquatic life. Since the region supports shrings, fish, and syster fisher- les worth \$150 to \$450 million per year, these	tecil matter that drifts to the peafloar. Series, uses, system, and dotter filter feeders ner- really consume this betts, bott they car's keep uses the standard field of matarial. Totadd decomparing buckets in the sections to brain worksheld disolated sages as well. Turndying selfuents also policies hybridge suffice, while worksheld disolated sages as well. Turndying selfuents also policies hybridges with the policies to be the section of the sections. The sections. The well-suiced basits bolds: as in the open corean, ourgest from apper days of sections. The sections of the basits areas fugers. How, however, and less dones, that baset fig- tures, thereas fuere layers, as well as well, appendix and the section of the basits of the section of the pays nervers, and less dones, that baset fig- ers, thereas fuere layers races on the site site pays	formers is calluping, community economics on their sitespace and an effective set consisting meeting the first Sea deal and disappeners, shall formers have a deal on the second second second second second second formers and second second second second formers and second second second second between the first shadness for the second seco	What Can You Do? More than You Do? Such of us can take seeps to reduce global azaming. While individually cach change near have only a small import, collectively show and up, The savings vary depending on where and how you live, but d following are averages for the United States.				
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bout 10 ppm dissolved oxygen. What caused his hypoxic (oxygen-starved) area to develop? Rabelais and her team tracked the phe-	layers unless strong currents or winds stir the water. Rany enclosed coastal waters, including	eminients forged an agreement to cut nitrogen inputs by 30 percent and reduce the size of the dead zone to 5,000 km ² . This agreement repre-	a dielign a			CO, Reduction (Pounds per Year)	Approximate Year Savings (U.S. S)
mon for several years, and it became clear	Chesapeake Exy, Long Island Sound, the Mediter-	sented astonishingly quick research and political	1. Keep your cas tires at full on	ssure, avoid quick starts and stops, and d		1.100	\$130
the dead zone was growing larger over that poor shrimp furvests coincided with	rannant Sea, and the Black Sea, tend to be strati- fied and suffer hypotale conditions that destroy	response to scientific results, but it doesn't appear to be enough. Computer models suggest	2. Carpool, walk, or take the bi			800	\$100
s when the zone was large, and that the size he dead zone, which ranges from 5,000 to			3. Turn off the lights when you leave a room,		300	\$10	
000 km ² (about the size of New Jersey).	and the number has doubled each decade since	Human activities have increased the flow	and the second sec	é light hubs with compact fluwescent hu	ALL STREET, ST	and the second s	
pended on rainfall and runoff rates from the sslssippi River. Excessive nutrients, mainly	dead zones were first observed in the 1970s. The Gulf of Mexico is second in tize behind a	of nitrogen reaching 855, coastal waters by four to eight times since the 1950s, Phospho-	the same international and the barry of the barry of the second statement of t		Q4.	tini sadir	\$5 each
ogen, from farms and cities far upstream on Mississippi River, were the suspected cutorit.	100,000 km ³ dead zone in the Baltic Sea. Can dead zones recover? Yes, Water is a	rus, another key nutrient, has tripled. This case study shows how water pollution can connect	S. Raise your air conditioning 2			400	\$20
Now did Rabetals and her team know that	forgiving medium, and organisms use nitro-	far-distant places, such as Midwestern farmers	of. Lower your furnace absormat			550	\$50
trients were the problem? They noticed that the year, 7-10 days after large spring rains in	gen quickly. In 1996 in the Black Sea region,	and Louisland shrimpers.	2. When heating on chelling, cla	te dosts and elindosts.		505	120
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terched, oxygen concentracions in the Gulf p from 6 ppm to below 2 ppm. These rains	The second secon		9. Unplug IV's, DVD stayers, con	equiters, and other instant on electronics.		250	052
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ricultural runoff were followed by a profuse th of algae and phytoplankton (tiny float-		THE ONE	13. His dig your clothes.	and the second		700	\$100
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Mississippi River drains 40 percent of the cote	manage and the second s	A Start	Lange in the second s	Hanh cours your door cears cream,		700	\$100
ited States, including the most heavily farmed s			Cource: Interfaith Power and Light, 2001.			and the second	A Standard H

Pedagogical features facilitate student understanding of environmental science

Learning Outcomes

After studying this chapter, you should be able to answer the following questions:

- Why are we concerned about human population growth?
- · Will the world's population double again as it did between 1965 and 2000?
- What is the relationship between population growth and environmental impact?
- Why has the human population grown so rapidly since 1800?
- How is human population growth changing in different parts of the world?
- How does population growth change as a society develops?
- What factors slow down or speed up human population growth?

New! Learning Outcomes

Questions at the beginning of each chapter challenge students to find their own answers.

Conclusion

The conclusion summarizes the chapter by highlighting key ideas and relating them to one another.

Conclusion

A few decades ago, we were warned that a human population explosion was about to engulf the world. Exponential population growth was seen as a cause or corollary to nearly every important environmental problem. Some people still warn that the total number of humans might grow to 30 or 40 billion by the end of this century. Birth rates have fallen, however, almost everywhere, and most demographers now believe that we will reach an equilibrium around 9 billion people in about 2050. Some claim that if we promote equality, democracy, human development, and modern family planning techniques, population might even decline to below its current level of 6.7 billion in the next 50 years. How we should carry out family planning and birth control remains a controversial issue. Should we focus on political and economic reforms, and hope that a demographic transition will naturally follow; or should we take more direct action (or any action) to reduce births?

Whether our planet can support 9 billion—or even 6 billion people on a long-term basis remains a vital question. If all those people try to live at a level of material comfort and affluence now enjoyed by residents of the wealthiest nations, using the old, polluting, inefficient technology that we now employ, the answer is almost certain that even 6 billion people is too many in the long run. If we find more sustainable ways to live, however, it may be that 9 billion people could live happy, comfortable, productive lives. If we don't find new ways to live, we probably face a crisis no matter what happens to our population size. We'll discuss pollution problems, energy sources, and sustainability in subsequent chapters of this book.

Practice Quiz

- About how many years of human existence passed before the world population reached its first billion? What factors restricted population before that time, and what factors contributed to growth after that point?
- 2. Describe the pattern of human population growth over the past 200 years. What is the shape of the growth curve (recall chapter 3)?
- Define ecological footprint. Why is it helpful, but why might it also be inaccurate?
- 4. Why do some economists consider human resources more important than natural resources in determining a country's future?

Practice Quiz

Short-answer questions allow students to check their knowledge of chapter concepts.

Critical Thinking and Discussion Questions

Brief scenarios of everyday occurrences or ideas challenge students to apply what they have learned to their lives.

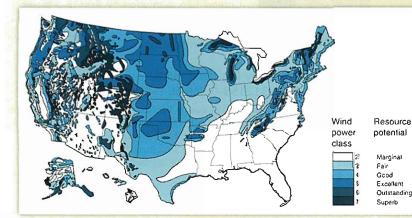
Critical Thinking and Discussion Questions

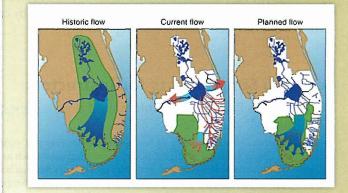
Apply the principles you have learned in this chapter to discuss these questions with other students.

- Suppose that you were head of a family planning agency in India. How would you design a scientific study to determine the effectiveness of different approaches to population stabilization? How would you account for factors such as culture, religion, education, and economics?
- 2. Why do you suppose that the United Nations gives high, medium, and low projections for future population growth? Why not give a single estimate? What factors would you consider in making these projections?
- 3. Some demographers claim that the total world population has already begun to slow, while others dispute this claim. How would you recognize a true demographic transition, as opposed to mere random fluctuations in birth and death rates?
- 4. Why do we usually express crude birth and death rates per thousand people? Why not give the numbers per persion or for the entire population?

Relevant photos and instructional art support learning

Numerous high quality photos and realistic illustrations display detailed diagrams, graphs, and real-life situations.

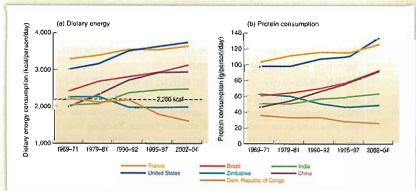














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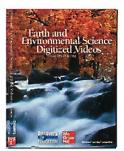
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Instructors will find the following digital assets for *Principles of Environmental Science* at Presentation Center:

- Color Art Full-color digital files of illustrations in the text can be readily incorporated into lecture presentations, exams, or custom-made classroom materials. These include all of the 3-D realistic art found in this edition, representing some of the most important concepts in environmental science.
- Photos Digital files of photographs from the text can be reproduced for multiple classroom uses.
- **Tables** Every table that appears in the text is provided in electronic format.
- Animations Ninety-four full-color animations that illustrate many different concepts covered in the study of environmental science are available for use in creating classroom lectures, testing materials, or online course communication. The visual impact of motion will enhance classroom presentations and increase comprehension.
- Global Base Maps Twenty-two base maps for all world regions and major subregions are offered in four versions: black-and-white and fullcolor, both with labels and without labels. These choices allow instructors the flexibility to plan class activities, quizzing opportunities, study tools, and PowerPoint enhancements.
- PowerPoint Lecture Outlines Ready-made presentations that combine art and photos and lecture notes are provided for each of the 15 chapters of the text. These outlines can be used as they are or tailored to reflect your preferred lecture topics and sequences.
- **PowerPoint Slides** For instructors who prefer to create their lectures from scratch, all illustrations, photos, and tables are preinserted by chapter into blank PowerPoint slides for convenience.



Earth and Environmental Science DVD by Discovery Channel Education (ISBN: 978-0-07-352541-9; MHID: 0-07-352541-3)

Begin your class with a quick peek at science in action. The exciting NEW DVD by Discovery Channel Education offers 50 short (3–5 minute) videos on topics ranging from conservation to volcanoes. Search by topic and download into your PowerPoint lecture.

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With help from WebCT, Blackboard, and other course management systems, professors can'take complete control of their course content. Course cartridges containing website content, online testing, and powerful student tracking features are readily available for use within these platforms.

Learning Supplements for Students

Text-specific Website (<u>http://www.mhhe.com/</u> <u>cunningham5e</u>)

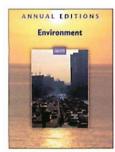
The *Principles of Environmental Science* website provides access to resources including quizzes for each chapter, additional case studies, interactive base maps, Google EarthTM exercises, ecological footprint calculators, and much more.

Field & Laboratory Exercises in Environmental Science, Seventh Edition by Enger and Smith (ISBN: 978-0-07-290913-5; MHID: 0-07-290913-7)

The major objectives of this manual are to provide students with hands-on experiences that are relevant, easy to understand, applicable to the student's life, and presented in an interesting, informative format. Ranging from field and lab experiments to conducting social and personal assessments of the environmental impact of human activities, the manual presents something for everyone, regardless of the budget or facilities of each class. These labs are grouped by categories that can be used in conjunction with any introductory environmental textbook.

Exploring Environmental Science with GIS by Stewart, Cunningham, Schneiderman, and Gold (ISBN: 978-0-07-297564-2; MHID: 0-07-297564-4)

This short book provides exercises for students and instructors who are new to GIS, but are familiar with the Windows operating system. The exercises focus on improving analytical skills, understanding spatial relationships, and understanding the nature and structure of environmental data. Because the software used is distributed free of charge, this text is appropriate for courses and schools that are not yet ready to commit to the expense and time involved in acquiring other GIS packages.



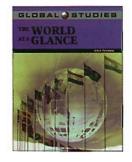
Annual Editions: Environment 08/09 by Sharp (ISBN: 978-0-07-351548-9; MHID: 0-07-351548-5)

This twenty-seventh edition is a compilation of current articles from the best of the public press. The selections explore the global environment, the world's population, energy, the biosphere, natural resources, and pollution.



Taking Sides: Clashing Views on Environmental Issues, Thirteenth Edition by Easton (ISBN: 978-0-07-351444-4; MHID: 0-07-351444-6)

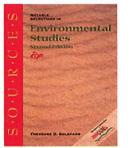
This thirteenth edition presents current controversial issues in a debate-style format designed to stimulate student interest and develop critical thinking skills. Each issue is thoughtfully framed with an issue summary, an issue introduction, and a postscript. An instructor's manual with testing material is available for each volume.



Global Studies: The World at a Glance, Second Edition by Tessema (ISBN: 978-0-07-340408-0; MHID: 0-07-340408-X)

This book features a compilation of up-to-date data and accurate information on some of the important facts about the world we live in. While it is close to impossible to be an expert in all areas, such as a nation's capital, type of government, currency, major languages, population, religions, political structure, climate, economics, etc.,

this book is intended to assist in understanding these essential facts in order to make useful applications.



Sources: Notable Selections in Environmental Studies, Third Edition by Goldfarb (ISBN: 978-0-07-352758-1; MHID: 0-07-352758-0)

This volume brings together primary source selections of enduring intellectual value—classic articles, book excerpts, and research studies—that have shaped environmental studies and our contemporary understanding of it. The book includes carefully edited selections from the works of the most distinguished environmental observers, past

and present. Selections are organized topically around the following major areas of study: energy, environmental degradation, population issues and the environment, human health and the environment, and environment and society.



Student Atlas of Environmental Issues, by Allen (ISBN: 978-0-69-736520-0; MHID: 0-69-736520-4)

This atlas is an invaluable pedagogical tool for exploring the human impact on the air, waters, biosphere, and land in every major world region. This informative resource provides a unique combination of maps and data that help students understand the dimensions of the world's environmental problems and the geographical basis of these problems.