State of Florida Instructional Materials Adoption Publisher Questionnaire (Form IM8)

BID #: 774
SUBMISSION TITLE: Environmental Science: Sustaining Your World, Florida Edition
GRADE LEVEL: 09-12
COURSE TITLE: Environmental Science
COURSE CODE #: 2001340
ISBN #: 9798214069517 Print SE; 9798214069531 Ebook SE
PUBLISHER: Cengage Learning, Inc.
AUTHOR: Miller/Spoolman

AUTHORS & CREDENTIALS: LIST FULL NAME OF AUTHOR(S), WITH MAJOR OR SENIOR AUTHOR LISTED FIRST. BRIEFLY PROVIDE CREDENTIALS FOR EACH AUTHOR.

G. TYLER MILLER

G. Tyler Miller has written 62 textbooks for introductory courses in environmental science, basic ecology, energy, and environmental chemistry. Since 1975, Miller's books have been the most widely used textbooks for environmental science in the United States and throughout the world. They have been used by almost 3 million students and have been translated into eight languages.

Miller has a professional background in chemistry, physics, and ecology. He has a PhD from the University of Virginia and has received two honorary doctoral degrees for his contributions to environmental education. He taught college for 20 years, and developed one of the nation's first environmental studies programs, before deciding to write environmental science textbooks full-time in 1975.

SCOTT E. SPOOLMAN

Scott Spoolman has more than 30 years of experience in educational publishing. He has worked with Tyler Miller first as a contributing editor and then as coauthor of Living in the Environment, Environmental Science, and Sustaining the Earth. With Norman Myers, he coauthored Environmental Issues and Solutions: A Modular Approach.

Spoolman holds a master's degree in science journalism from the University of Minnesota. He has authored numerous articles in the fields of science, environmental engineering, politics, and business. He has also worked as a consulting editor in the development of over 70 college and high school textbooks in fields of the natural and social sciences. In his free time, he enjoys exploring the forests and waters of his native Wisconsin along with his family-his wife, environmental educator Gail Martinelli, and his children, Will and Katie.

STUDENTS: DESCRIBE THE TYPE(S) OF STUDENTS FOR WHICH THIS SUBMISSION IS INTENDED.

Environmental Science: Sustaining Your World, Florida Edition is Intended for Florida High School Students.

1.LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED INTHE LAST EIGHTEEN MONTHS.

National Geographic Environmental Science, Florida Edition is a new program for the Florida Science adoption and has not yet been piloted in Florida.

2.HOW ARE YOUR DIGITAL MATERIALS SEARCHABLE BY FLORIDA'S ACADEMIC STANDARDS (SECTION 1006.33(1)(e), FLORIDA STATUTES)?

Within the MindTap School platform, a user can search for a specific standard code using the search bar at the top of the page and retrieve a list of all activities within the course that are tagged to that standard. Additionally, a user can click on "Materials" and browse through the sets of standards that are associated to the course. Clicking on a specific standard will retrieve the list of all activities within the course that are tagged to that standard.

3.IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Toolis comprised of the items necessary to meet the standards and requirements of the category for whichit is designed and submitted. As part of this section, include a description of the educational approachof the submission.

Educational Approach: (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

National Geographic Environmental Science: Sustaining Your World was created specifically for your high school environmental science course. With a central theme of sustainability included throughout, authors G. Tyler Miller and Scott Spoolman have focused content and included student activities on the core environmental issues of today while incorporating current research on solutions-based outcomes. National Geographic images and graphics support the text, while National Geographic Explorers and scientists who are working in the field to solve environmental issues of all kinds tell their stories of how real science and engineering practices are used to solve real-world environmental problems.

National Geographic Environmental Science: Sustaining Your World, Florida Edition fully aligns with the curriculum requirements of the Florida Next Generation Sunshine State Standards, and the B.E.S.T. Standards.

Major Tool - Student Components Describe each of the components, including a format description.

The **Student Edition** of Environmental Science: Sustaining Your World, Florida Edition is the Major Tool for students. It consists of 5 Units and 18 Chapters and is available in print as well as online on the MindTap School platform with interactive elements (videos, animations, and assessments).

Each chapter begins with an **Explorers at Work** feature that describes the scientific or social endeavors and achievements of a National Geographic explorer, grantee, or other affiliate. These features showcase individuals from all walks of life, recounting not only their professional work, but what gets them out of bed in the morning, the setbacks they have endured and overcome, and what they hope to achieve for the future. In this spirit of action over inaction and individual accountability, each Chapter Assessment concludes with a Citizen Science or Take Action activity, called simply Activity B, that serves as a call to action on an environmental or social topic relevant to the content of the chapter and the integrating theme of sustainability.

Each chapter also includes numerous opportunities for **hands-on learning** via a teacher-tested Chapter Investigation. These Guided Inquiry, Open Inquiry, and Engineering Design labs in the MindTap digital platform provide an in-depth laboratory experience for all students. Supportive lab guides and worksheets are available in multiple file formats, including a downloadable **Lab Manual.**

Major Tool - Teacher Components Describe each of the components, including a format description.

The **Teacher's Edition** of Environmental Science: Sustaining Your World, Florida Edition is the Major Tool for teachers and is available in print as well as online on the MindTap School platform. The Teacher's Edition provides in-depth instructional materials at the lesson level. A Planning Guide precedes every chapter, unit-level project, and special feature. This guide lists each lesson's Core Ideas and Skills and Key Terms at a glance. Features that fall within a lesson are called out for easy reference. The Attitudes, Skills and Knowledge (A.S.K.) dimensions of the National Geographic Learning Framework are applied to each chapter's Citizen Science or Take Action activity. Differentiated Instruction strategies in every lesson help teachers meet the diverse vocabulary and comprehension needs of students, including English learners. A robust, built-in assessment cycle provides full support for students of all abilities.

The **Teacher eEdition** provides complete access to all Student components and the following instructional support and tools:

All content that is in the Student Edition

Standards Correlation

Ability to customize the course and re-arrange the content

Ability to create assignments

Strategies for Differentiation

Gradebook

Reports

Groups

StudyHub

PowerPoint Lecture Notes

Assessment Handbook

Lab Manual

Lab Materials List

English/Spanish Glossary

4. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

Student Lab Manual - This manual provides a printable version of all labs in the program. Available Print / Digital PDF in Mindtap platform.

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

1. Teacher Lab Manual - This manual provides a printable version of all labs in the program. Available Print / Digital PDF in Mindtap platform.
2. Assessment Handbook - This manual provides a printable version of all chapter pretests and posttests, chapter tests and performance tasks in the program. Available Print / Digital PDF in Mindtap platform.

5. IDENTIFY WHICH INDUSTRY STANDARD PROTOCOLS ARE UTILIZED FOR INTEROPERABILITY?

MindTap, National Geographic Learning/Cengage's online portal for teaching and learning, has been certified by IMS Global at the v1.3 LTI Advantage interoperability level.

6. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

This program is aligned to either a half-year or a full-year course. Lessons, activities, and review questions are designed to be flexible and to provide the teacher with the opportunity to extend or shorten the time spent on lessons as needed. A Chapter Planner at the beginning of each chapter also assists with planning.

7. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

Please refer to a separate detailed document called the Florida Customer Care Package which describes all the product implementation training that is available based on the purchased products and quantities. The training ranges from multiple day, in-person training with several scheduled follow up trainings over multiple years to individual 1 on 1 online/remote training sessions. There are also many online on-demand training modules available to keep teachers successful any time of the day or week to ensure successful implementation and use of our products in the classroom.

8. WHAT HARDWARE/EQUIPMENT IS REQUIRED? List and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid; however, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

Please access MindTap system requirements through the following link: https://help.cengage.com/mindtap/mt-student/common/system-requirements.html or see below.

Cengage web-based learning platforms require broadband internet access and supported web browsers and plugins.

Supported Browsers

Supported browsers for different activity types may vary. If you are using SAM in MindTap, see SAM in MindTap System Requirements.

Windows®

- Chrome™ 96 and 97
- Firefox® 96 (Windows 10 only)
- Edge 96 and 97 (Windows 10 only)

macOS™

- Chrome 96 and 97
- Safari® 14 and 15

Chrome OS™

- Chrome 96 and 97

iOS

- Safari 14 and 15

Other browsers and versions than those listed might also work, but are not supported. If you have problems when using an unsupported browser version, try using a supported browser version before contacting Customer Support.

Workstation Recommendations

- Download bandwidth: 5+ Mbps
- RAM: 2+ GB
- CPU: 1.8+ GHz / multi-core
- Display: 1366 × 768, color
- Graphics: DirectX, 64+ MB
- Sound (for some content)
- Check Your System
  Use the browser check tool to see if you need to update your browser or install missing plugins.
- Browser Settings
  Configure the following settings in your web browser. (Click on the link.)
- Browser Plugins
  Some content and tools might require the following browser plugins. (Click on the link.)

9. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

Attached are two National Geographic Learning/Cengage policies: the MindTap licensing policy and the privacy policy.

Cenage-Group-School-Terms_of-Use-January-2022.pdf

cengage-privacy-notice-october-2020-1508150.pdf

10. WHAT STATES HAVE ADOPTED THE SUBMISSION? List any states in which this submission is currently adopted.

Environmental Science: Sustaining Your World, Florida Edition is new for the Florida Science adoption and not been adopted in other states.

11. WHAT OPEN EDUCATIONAL RESOURCES RELATED TO THIS BID DO YOU MAKE AVAILABLE(S)? List and describe each of the components, including a format description. (Open Educational Resources (OER) are high-quality, openly licensed, online educational materials that offer an extraordinary opportunity for people everywhere to share, use and reuse knowledge.)

Open Educational Resources (OER) are not included in the National Geographic Learning/Cengage bid.

12.ALTHOUGH NOT CALLED FOR IN THE STATE ADOPTION, DO YOU HAVEADVANCED PLACEMENT (AP) OR ACCELERATED PROGRAM INSTRUCTIONALMATERIALS AVAILABLE FOR THE COURSE(S) BID FOR ADOPTION?

1. Honors: Environmental Science, 16e (Miller and Spoolman)
2. Advanced Placement Exploring Environmental Science for AP, 1e Enhanced (Miller and Spoolman)

13.WHAT, IF ANY, FOREIGN LANGUAGE TRANSLATIONS DO YOU HAVEAVAILABLE?

Environmental Science: Sustaining Your World, Florida Edition is available in English only.

14.DO YOU PROVIDE ACCESS POINT SCAFFOLDING OR AN ACCESS POINTCORRELATION UPON REQUEST?

Environmental Science: Sustaining Your World, Florida Edition fully aligns with the curriculum requirements of the Florida Next Generation Sunshine State Standards and the B.E.S.T. Standards. Unit, chapter, and lesson alignments are available at point of use within the Student and Teacher editions in print and digital formats. In addition, suggestions for differentiated instruction appear at the chapter level and in individual lessons in the Teacher edition to provide access to the content with reduced levels of complexity. Access Point correlations are available upon request.

15. ESSA LEVELS OF EVIDENCE: To be considered an evidence-based program (or practice), it is required to have evidence to show that the program is in fact effective at producing results and improving outcomes in reading when implemented. Identification of evidence level alignment, Levels 1-4 (as outlined in the specifications), for the entirety of the program, part of the program, or individual practices within the program is required. Please explain how your product meets these requirements.

National Geographic Learning/Cengage is committed to providing results-driven solutions to improve student outcomes. The Science editorial department believes in providing rigorous, challenging, engaging content that is accessible by all learners and for all learning styles.

The National Geographic Learning Science programs are developed with the expertise of highly regarded authors, subject matter experts, program consultants, editorial staff, and reviewers who ensure the implementation of the most recent research studies and pedagogy to promote student achievement. It is the goal of National Geographic Learning to ensure we reach every Florida student in every National Geographic Learning classroom.

In every chapter, we have included a number of tools to help students improve their learning skills and apply them. First, consider the Key Questions list at the beginning of each chapter. These can be used to preview a chapter and

to review the material after it's read.

Each Explorers at Work profiles the positive, inspiring, and creative problem-solving thinkers and scientists of National Geographic.

A Case Study anchors a chapter's big ideas to a real-world example. At the end of each Case Study is an As You Read note that challenges students to connect the chapter concepts to their own knowledge or life experiences.

Learning objectives are found in the Core Ideas and Skills box at the start of every lesson. The Key Terms box gives students an at-a-glance list of the important words they'll encounter that can be looked up in the English or Spanish glossary. After each lesson, formative assessments (a mix of multiple choice and constructed responses) measure comprehension of the content of the lesson as well as the building of literacy skills.

Following the last lesson is a Tying it All Together, which guides students through the analysis of data or information related to the real-world challenges discussed in the Case Study and throughout the chapter. A Chapter Summary reviews the big ideas and important details from each lesson. Finally, a Chapter Assessment is included to ensure overall comprehension before moving to a new chapter.

At the end of each unit are guided STEM Engineering projects where students get to take the wheel as the problem-solver working on a real environmental issue. An Engineering Project may take several weeks to complete and involve careful planning and collaboration. In their role as engineers, students will put their math and technology skills to use, apply scientific knowledge and be creative.

In addition to strategies incorporated in the student edition, MindTap, National Geographic Learning's online platform for teaching and learning, is rich in formative and summative assessment to measure reading and content comprehension and employs multiple modes of assessment. The student eBook is also available to be read aloud to reinforce learning.

National Geographic Learning is committed to providing results-driven solutions to improve student outcomes. The focus is on the effective use of technology, strong student support, experienced and talented authors and consultants, frequent assessment, and student engagement through print and digital resources. With this strong foundation, National Geographic Learning supports the goals and outcomes of ESSA.