



# New Mexico K–12 Adopted Science and Art Programs



Dear New Mexico Educator,

National Geographic Learning, a part of Cengage, is pleased to present the following catalog of Science and Art History titles for the 2018 New Mexico Science and Art adoption. This catalog features a wide variety of learning solutions designed to fit your curriculum in all areas of science and art.

Please contact us for all of your state-specific adoption information, including:

- Product details
- Presentations
- Correlation guides
- Ancillaries
- Training
- Tabbing guides

National Geographic Learning is as committed to helping your students succeed in the classroom as you are. Our diverse selection of both student and teacher learning solutions feature up-to-date content combined with the latest technology.

We appreciate that you have many choices when selecting a solutions provider and we thank you for giving us the opportunity to serve you. We cherish this partnership and we look forward to working with you in the future.

Please contact us, your National Geographic Learning Sales Consultants, directly for more information.

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National Geographic Learning Exploring Science

Master the Next Generation Science Standards

Exploring Science helps you implement the Next Generation Science Standards (NGSS) with confidence and ensures your students master 21st century science skills. Combine instruction in Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts to meet the rigor of the Performance Expectations within the NGSS.

- In-depth mastery of 100% of the NGSS for grades K-5
- Introduce real-world science research with National Geographic Explorers, scientists, and photographers
- Connect NGSS content with investigations, engineering practices, and case studies for complete NGSS immersion



Student Edition Features

**Authentic Content**  
Concise text focuses exclusively on the NGSS; all content is authentic and newly written

**National Geographic Images and Graphics**  
Vibrant images and National Geographic photography capture student interest

**Built from the NGSS**  
Disciplinary Core Ideas and Performance Expectations appear on each page; all content and hands-on activities are based exclusively on the NGSS



**National Geographic Explorers and Scientists**  
Exclusive features show students how scientists use NGSS processes and methods in their real-world research. Explorers inspire students to engage by asking questions and solving problems as dictated in the NGSS.

Erin Pettit

Enric Sala

Shafqat Hussain

Barrington Irving

Knicole Colon

Ainissa Ramirez

**Assessment**  
Track student progress through multiple methods including review questions, eBook activities, and rubrics for assessing the NGSS Performance Expectations

**Science Notebooking**  
Students keep their own science notebooks to mirror real scientists and Explorers; students record data, ask questions, draw, write creatively, and express what they have learned

Hands-on activities for print and eBook



Student Editions





National Geographic Learning Exploring Science

Teacher Support

Teacher's Guides for each grade provide all of the support needed to implement and assess the NGSS. Master the NGSS Performance Expectations with lessons based on the 5E model of Engage, Explore, Explain, Elaborate, and Evaluate.

NGSS printed on every page

5E model for every lesson

Assessment opportunities include:

- Teacher and Student rubrics to assess Performance Expectations
- Evaluate sections to assess Disciplinary Core Ideas
- Unit core idea review questions

66 Physical Science

67

Integrate all aspects of the NGSS into lessons for a 3-Dimensional approach

Tips for teachers on setting up classroom activities

Student Science Notebook opportunities

Interactive eBooks

Support digital learning with highly engaging, content-based activities at point of use. Interactive activities expand student understanding of NGSS concepts.

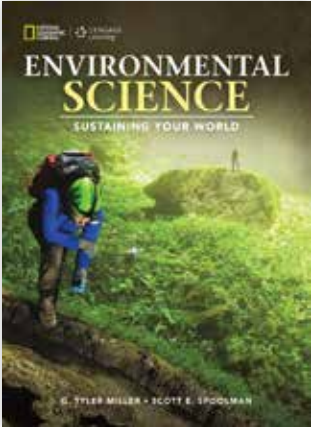
Audio support available for English and Spanish versions

Interactivity supports NGSS content and practices

Content and science practice through Wrap It Up! Sections



Environmental Science



Environmental Science: Sustaining Your World

Miller, Spoolman  
Grades 9–12 First Edition ©2017 9781305637429

- Elevate Environmental Science instruction with the first high school program built with National Geographic content, images, and Explorers
- Promote scientific understanding of environmental issues and show how science and engineering practices are used to solve real-world environmental problems
- With a central theme of sustainability included throughout, the content focuses on the core environmental issues of today while incorporating case studies and current research on solutions-based outcomes
- Address the Next Generation Science Standards to ensure your students meet 21st century science skills and practices by integrating 3-dimensional learning
- Comprehensive unit projects include hands-on engineering design activities where students utilize content and skills from the unit to design a solution to an environmental problem
- Special National Geographic features introduce students to unique projects and partnerships including a live-data biodiversity survey in Africa, citizen science projects like BioBlitzes, and the contributions of nature museums and preserves



This personal learning environment combines the eBook and resources into a singular Learning Path

Environmental Science: Sustaining Your World First Edition ©2017

Student Edition + MindTap™ (6-year access)	9781337379465
MindTap™ + VitalSource® (6-year access)	9781337379441
Annotated Instructor's Edition	9781305645776

Instructor Companion Site at [login.cengage.com](http://login.cengage.com) with Cengage Learning Testing, powered by Cognero®



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- Track student progress and success with powerful analytics
- Easily create assignments and reminders for students

Table of Contents

1. The Environment and Sustainability	12. Nonrenewable Energy Resources
2. Science, Matter, Energy, and Systems	13. Renewable Energy Resources
3. Ecosystem Dynamics	14. Human Population and Urbanization
4. Biodiversity and Evolution	15. Human Health
5. Species Interactions, Succession, and Population Control	16. Air Pollution, Climate Change, and Ozone Depletion
6. Ecosystems and Climate	17. Solid and Hazardous Waste
7. Saving Species and Ecosystem Services	18. Environmental Economics, Politics, and Worldviews
8. Sustaining Biodiversity: An Ecosystems Approach	
9. Food, Soil, and Pest Management	
10. Water Resources and Water Pollution	
11. Geology and Nonrenewable Mineral Resources	

Expert content and National Geographic imagery for Environmental Science



Impactful National Geographic images

Frequent in-chapter and end-of-chapter questions support student understanding

Encourage critical thinking skills

Reader-friendly content and scientific vocabulary





Environmental Science

Miller, Spoolman  
Grades 9–12 Sixteenth Edition ©2019 9781337569743

- Most appropriate for an honors environmental science course
- Boasts unparalleled coverage of sustainability, basic science, and bias-free explanations, all within a flexible chapter organization
- Science- and concept-centered approach encourages students to think about important concepts and issues that affect their lives
- Core case studies that illustrate key topics and issues, reinforcing the sustainability theme to inspire nearly 70 “How Would You Vote?” questions—which sharpen students’ critical thinking by asking them to consider facts, conflicting solutions, and trade-offs surrounding the issues, and then to cast their vote

Hardcover, 576 pages

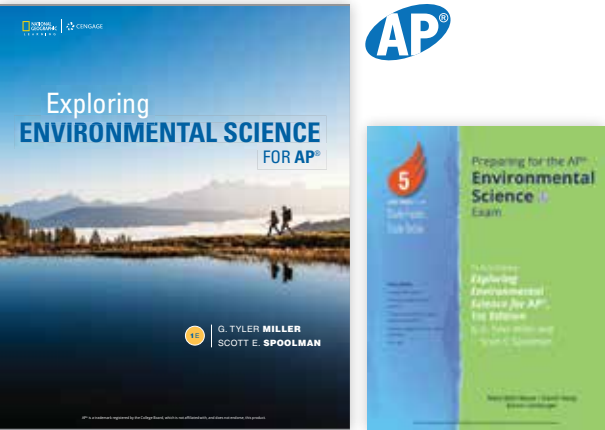


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Environmental Science Sixteenth Edition ©2019

Student Edition + MindTap™ (6-year access)	9781337858182
MindTap™ + VitalSource® (6-year access)	9781337858205

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Exploring Environmental Science for AP®

Miller, Spoolman  
Grades 9–12 First Edition ©2019 9781337098038

- Designed from the ground up to meet AP® Environmental Science course requirements
- AP® Multiple Choice and Free-Response review questions appear at the end of each Chapter, at the end of each Unit, and a full AP® Practice Test is included at the end of the book
- Themes of economics, politics, ethics, policy, and sustainability are woven throughout, emphasizing the interconnectedness of human activity and the environment
- Critical Concepts in Sustainability features focus on the interconnectedness of people, policy, economics, science and environment; each has a free-response question to help students develop good FRQ writing skills

Hardcover, 525 pages



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The Fast Track to a 5 mobile app provides students test prep on-the-go for AP® exams.

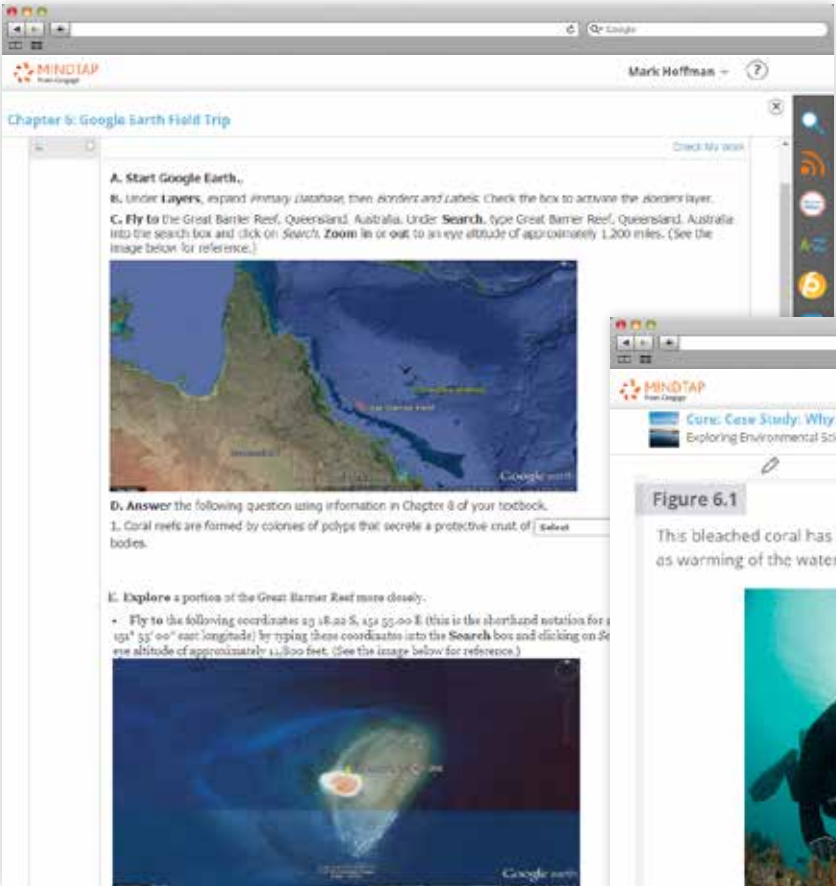
Exploring Environmental Science for AP® First Edition ©2019

Student Edition + MindTap™ (6-year access)	9781337858144
MindTap™ + VitalSource® (6-year access)	9781337858168
Annotated Teacher's Edition	9781337706070
Fast Track to a 5 AP® Test Preparation Workbook for Exploring Environmental Science for AP®	9781337705745
AP® Teacher's Resource Guide	9781337705691

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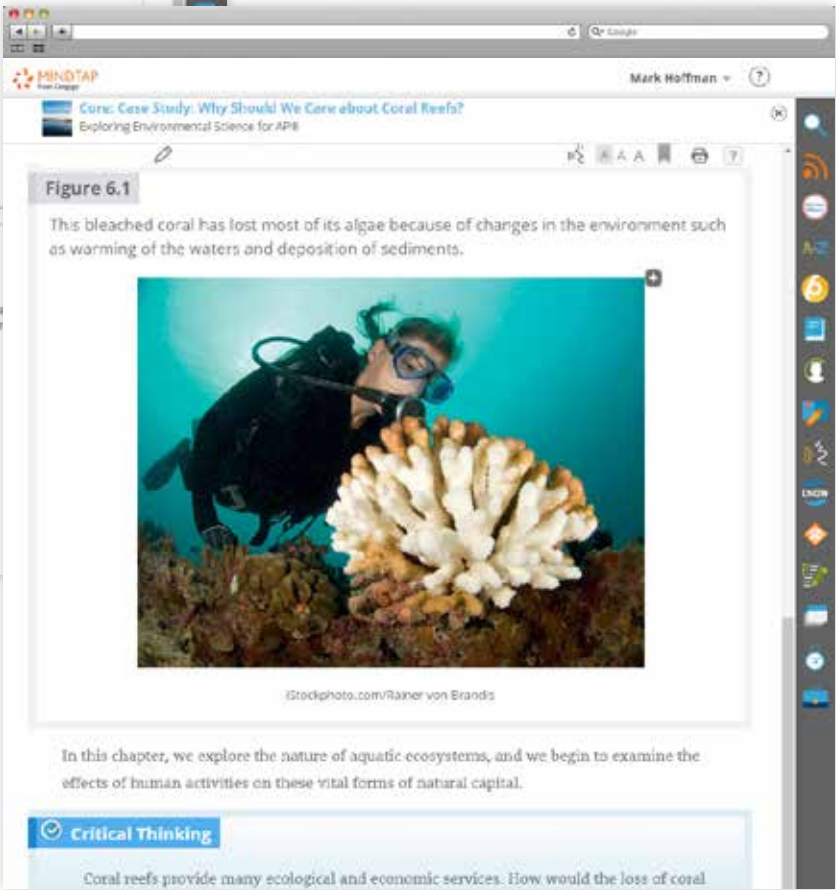
Fast Track to a 5 (Course Edition)

AP® Test Preparation Workbook for use with any AP® Environmental Science program. This version is independent from any specific textbook. Available in print or as a VitalSource® eBook.	
Fast Track to a 5 (Print)	9781337629126

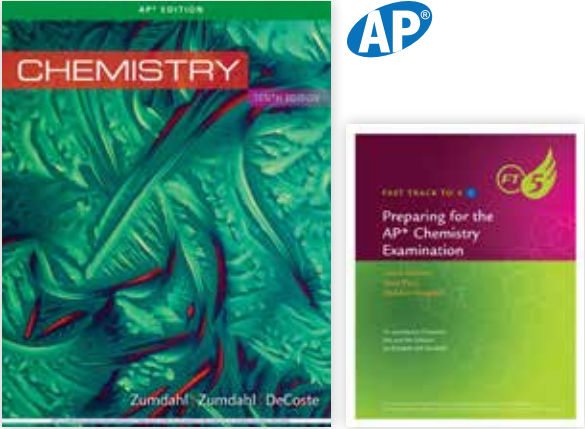


MindTap™ Features for AP® Environmental Science

- Core Case Studies for each chapter guide instruction and frame student understanding of the chapter contents. Case studies are revisited at the end of each chapter with unique MindTap™ activities.
- Global Environmental Watch assignments include access to the Global Reference on the Environment, Energy, and Natural Resources (GREENR) database to research real data, journals, news articles, images, and videos.
- Google Earth Field Trip assignments virtually take students to real locations with assessment questions included.



Chemistry



Chemistry, AP® Edition

Zumdahl, Zumdahl  
Grades 11–12 Tenth Edition ©2018 9781305957732

- Renowned for its problem-solving approach and focus on conceptual development
- Emphasizes a qualitative approach to chemistry in both the text and the digital program before quantitative problems are considered, helping build comprehension
- Focuses on modeling throughout the narrative to address the problem of rote memorization by helping students better understand and appreciate the process of scientific development
- New “Critical Thinking Questions” have been added throughout the text to emphasize the importance of conceptual learning
- New “ChemWork Problems” have been added to the end-of-chapter problems throughout the text to test student understanding of core concepts, which can be worked as pencil-and-paper problems or in interactive form in the OWL digital platform

Hardcover, 1,200 pages



The Fast Track to a 5 mobile app provides students test prep on-the-go for AP® exams.

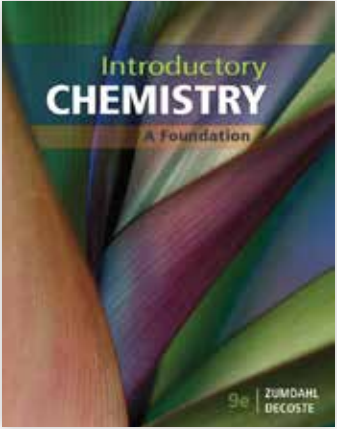
Fast Track to a 5: Preparing for the AP® Examination

- Helps students study for the AP® exam quickly, efficiently, and effectively
- Closely correlated to the AP® textbook program
- Includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams

Paperback, 384 pages

Chemistry, AP® Edition Tenth Edition ©2018	
Student Edition (AP® Edition) + OWL with eBook and Online Fast Track to a 5 (up to 6-year access)	9781337427012
OWL and Online Fast Track to a 5 + VitalSource® (6-year access)	9781337427029
Fast Track to a 5 AP® Test Preparation Workbook for Chemistry, AP® Edition	9781305957480
Annotated Teacher's Edition	9781305957749
AP® Teacher's Resource Guide	9781305957794
Student Solutions Manual	9781305957510
Study Guide	9781305957473
Teacher's Resource Manual to AP® Lab Manual	9781305957411
Test Bank for AP® Chemistry	9781305957527

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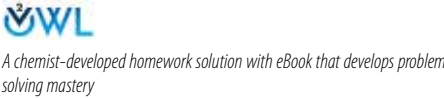


Introductory Chemistry: A Foundation

Zumdahl, DeCoste  
Grades 10–12 Ninth Edition ©2019 9781337399449

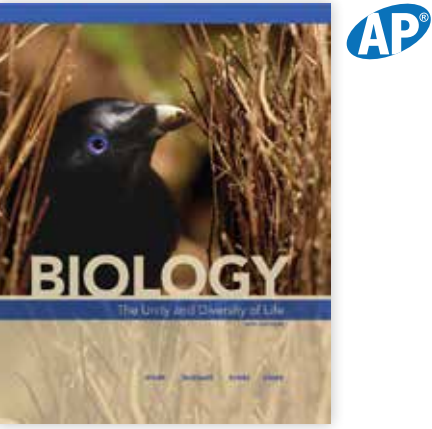
- Offers a superior problem-solving pedagogy, an engaging writing style, and a strong emphasis on everyday applications, as well as a robust teaching and learning package and helpful digital solutions
- Chemical reactions are covered early-on to capture student interest, leaving more abstract material for later chapters
- Explains chemical concepts by starting with the basics—using symbols or diagrams—and concludes by encouraging students to test their own comprehension of the solution

Hardcover, 800 pages



Introductory Chemistry: A Foundation Ninth Edition ©2019	
Student Edition + OWL with eBook (up to 6-year access)	9781337860413
OWL with eBook + VitalSource® (6-year access)	9781337860420
Student Solutions Manual	9781337399470
Annotated Instructor's Edition	9781337399432
Instructor Companion Site at login.cengage.com with Cengage Learning Testing, powered by Cognero®	

Biology



Biology: The Unity and Diversity of Life, AP® Edition

Starr, Taggart, Evers, Starr  
Grades 10–12 Fifteenth Edition © 2019 9781337408592

- Known for its approach, writing style, current coverage of the breadth of biology topics, and unique illustrations
- Fulfills the standards of the new AP® Biology course and provides a lively, engaging writing style that conveys the central concepts and applications of human biology succinctly and accurately
- Issues-oriented approach that engages students in current, motivating biological topics; a built-in cross-referencing system for key topics; and helpful media resources for teachers and students

Hardcover, 1,024 pages



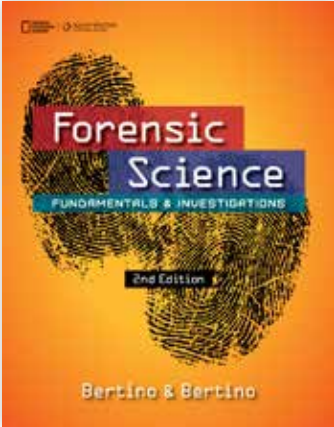
This personal learning environment combines the eBook and resources into a singular Learning Path

Biology: The Unity and Diversity of Life, AP® Edition Fifteenth Edition © 2019	
Student Edition + MindTap™ (6-year access)	9781337860444
MindTap™ + VitalSource® (6-year access)	9781337860468
Fast Track to a 5 Test Preparation Workbook for Biology: The Unity and Diversity of Life, AP® Edition	9781337408622
AP® Teacher's Manual	9781337408608
AP® Lab Manual	9781337408615

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Forensic Science



Forensic Science: Fundamentals and Investigations

Bertino, Bertino  
Grades 9–12 Second Edition ©2016 9781305077119

- Carefully crafted and visually powerful, this best-selling program ensures solid scientific content and an approach that delivers precisely what students need in a high school course
- A new entomology chapter, more crime-scene and autopsy coverage, and new Capstone Projects that ask students to apply key topics and integrate concepts
- Forensic Science MindTap™ and Virtual Labs give students real-world lab experience within an online environment!
- Virtual Lab activities include background information, 3-D crime scene, clear instructions, Toolkit, post-lab assessment, critical-thinking questions, and research activities
- Student material combines math, chemistry, biology, physics, and earth science content clearly identified by icons and correlated to standards like NGSS or CCSS
- Balances extensive scientific concepts with hands-on classroom and lab activities, readings, intriguing case studies, and chapter-opening scenarios
- The exclusive Gale Forensic Science eCollection™ database provides instant access to hundreds of high-interest journals and Internet resources
- Comprehensive, time-saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid, integrated science education

Hardcover, 608 pages

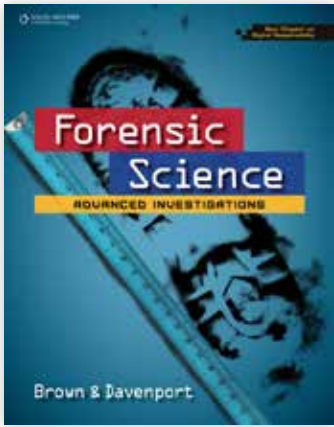


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Forensic Science: Fundamentals and Investigations Second Edition ©2016

Student Edition + MindTap™ (6-year access)	9781305467453
MindTap™ + VitalSource® (6-year access)	9781305467477
Wraparound Teacher's Edition	9781305107922

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Forensic Science: Advanced Investigations, 2016 Update

Brown, Davenport  
Grades 9–12 First Edition ©2016 9781305120716

- Balances extensive scientific concepts with hands-on classroom and lab activities, readings, intriguing case studies, and chapter-opening scenarios
- Expands students' knowledge of chemistry, biology, physics, earth science, math, and psychology with content tied to national and state science standards
- Builds on concepts introduced in *Forensic Science: Fundamentals & Investigations*, as well as introduces additional topics, such as arson and explosions
- Comprehensive, time-saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid, complete science education
- This book provides a solution that is engaging, contemporary, and specifically designed for high school students
- Forensic Science MindTap™ and Virtual Labs gives your students real-world lab experience within an online environment
- Each Virtual Lab activity includes: background information, 3-D crime scene, clear instructions, Toolkit, post-lab assessment, critical-thinking questions, and research activities

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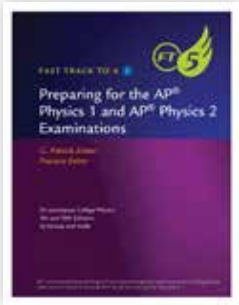
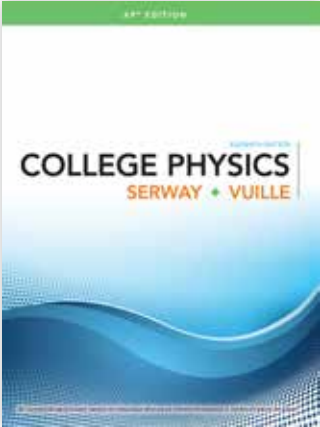
Forensic Science: Advanced Investigations

First Edition, Copyright Update ©2016

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Physics



College Physics

Serway, Vuille  
Grades 11–12 Eleventh Edition ©2018 9781305965393

- Meets AP® Physics 1 and AP® Physics 2 course requirements
- Shows how physics works in the real world with a clear, logical, algebra-based presentation of the basic concepts and principles of physics
- Provides a clear strategy for connecting theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples
- Integrates the latest findings of physics education research throughout the text, placing more emphasis on critical and conceptual thinking

Hardcover, 1,120 pages



Inspire mastery with this powerful math-centered homework solution with eBook

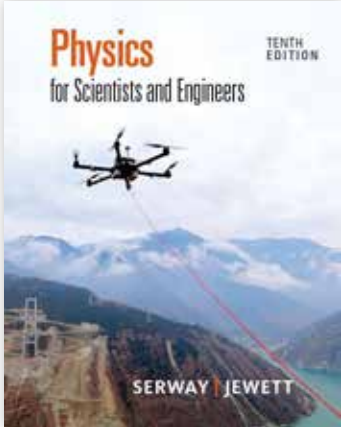


The Fast Track to a 5 mobile app provides students test prep on-the-go for AP® exams.

College Physics Eleventh Edition ©2018

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AP® Teacher's Resource Guide	9781305965379

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Physics for Scientists and Engineers

Serway, Jewett  
Grades 11–12 Tenth Edition ©2019 9781337553469

- A proven text that reveals the function and simplicity of physics while highlighting its essential role in other disciplines, from engineering to medicine
- Recognized for concise writing, carefully developed problem sets, world-class worked examples, and leading-edge learning features
- Authoritative, calculus-based text maintains the book's high standards in an integrated, enhanced Supplemental Package that helps teachers provide their students with the best in introductory physics education
- Includes stronger integration of the Analysis Model approach to problem-solving, highlighting this approach because students often find it easier to identify a situation rather than a fundamental principle
- Lays out a standard set of situations that appear in most physics problems, serving as a bridge to help students identify the correct fundamental principle—and then, the equation—to utilize in solving that problem
- Features Analysis Model boxes that better integrate the Analysis Model approach by providing examples of the types of problems that students could solve using the model

Hardcover, 1,232 pages



Inspire mastery with this powerful math-centered homework solution with eBook

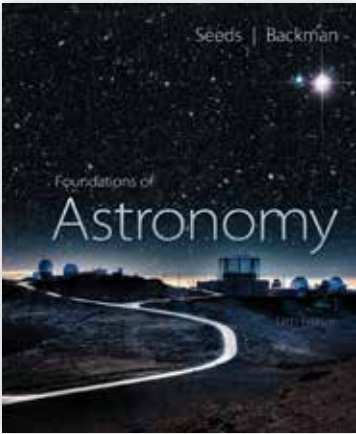
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WebAssign® + VitalSource® (6-year access)	9781337860543

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Astronomy



Foundations of Astronomy

Seeds, Backman  
Grades 11–12 Fourteenth Edition ©2019 9781337399920

- Fascinating, engaging, and extremely visual text that emphasizes the scientific method throughout as it guides students to answer two fundamental questions: “What are we?” and “How do we know?”
- Highlights the newest developments and latest discoveries in the exciting study of astronomy with a discussion of the interplay between evidence and hypothesis—providing not only fact but also a conceptual framework for understanding the logic of science
- New coverage that includes the latest updates on Earth-based giant telescopes and giant radio telescopes, information emphasizing observations over the entire electromagnetic spectrum, and insights on global warming and ozone depletion

Hardcover, 688 pages



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Foundations of Astronomy Fourteenth Edition ©2019

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Anatomy and Physiology



Body Structures and Functions

Scott, Fong  
Thirteenth Edition ©2017 9781305511361

- Introduces students to the basic concepts and skills required for the study of the human body, and how it functions, in a clear and concise manner
- Guides students through an overall review of human development and body processes, starting with a general introduction to life functions, and with the terminology used to describe body parts and their locations
- Integrates diseases and disorders within each body-system chapter to link physiology with anatomy
- MindTap™ offers a complete learning experience with an interactive ebook, assessment, study tools, matching exercises, and Anatomy and Physiology Learning Labs

Hardcover, 544 pages



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Body Structures and Functions Thirteenth Edition ©2017

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MindTap™ + VitalSource® (6-year access)	9781305992047
Student Workbook	9781305511439
Cengage Learning Testing, powered by Cognero® Instant Access for Scott/Fong's Body Structures and Functions	9781305511484

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Art History



Gardner's Art through the Ages: A Global History, AP® Edition

Kleiner  
Grades 9–12 Fifteenth Edition ©2016 9781285839028

- The most widely read history of art and architecture text in the English language for more than 85 years
- Comprehensive, integrated set of digital resources that brings course content to life for students
- Provides more online help for students and instructors than any other art survey text

Hardcover, 1,216 pages



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AP® Teacher's Resource Guide	9781285839035
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## Notes



## For more information, contact your New Mexico K–8 and 9–12 National Geographic Learning Sales Consultant:

### GRADES 9–12

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505-401-3700

sally.newcomb@cengage.com

**Shawnda Crase**

800-543-0487 ext 11581

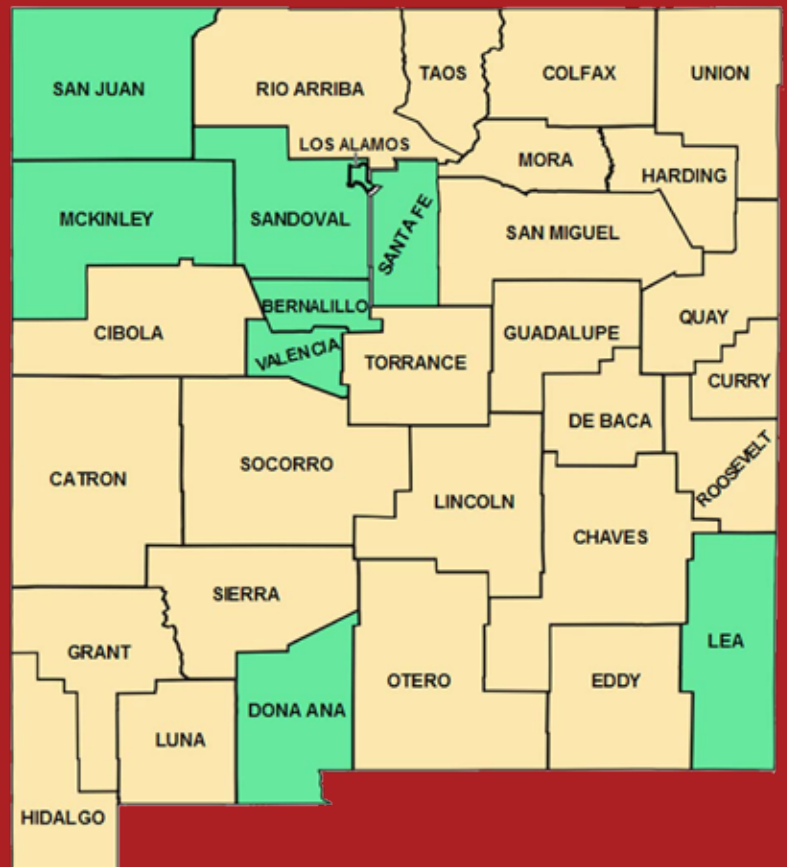
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### GRADES K–8

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mark.alvarado@cengage.com



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