



GRADES K-12

OKLAHOMA K-12/AP[®] Science

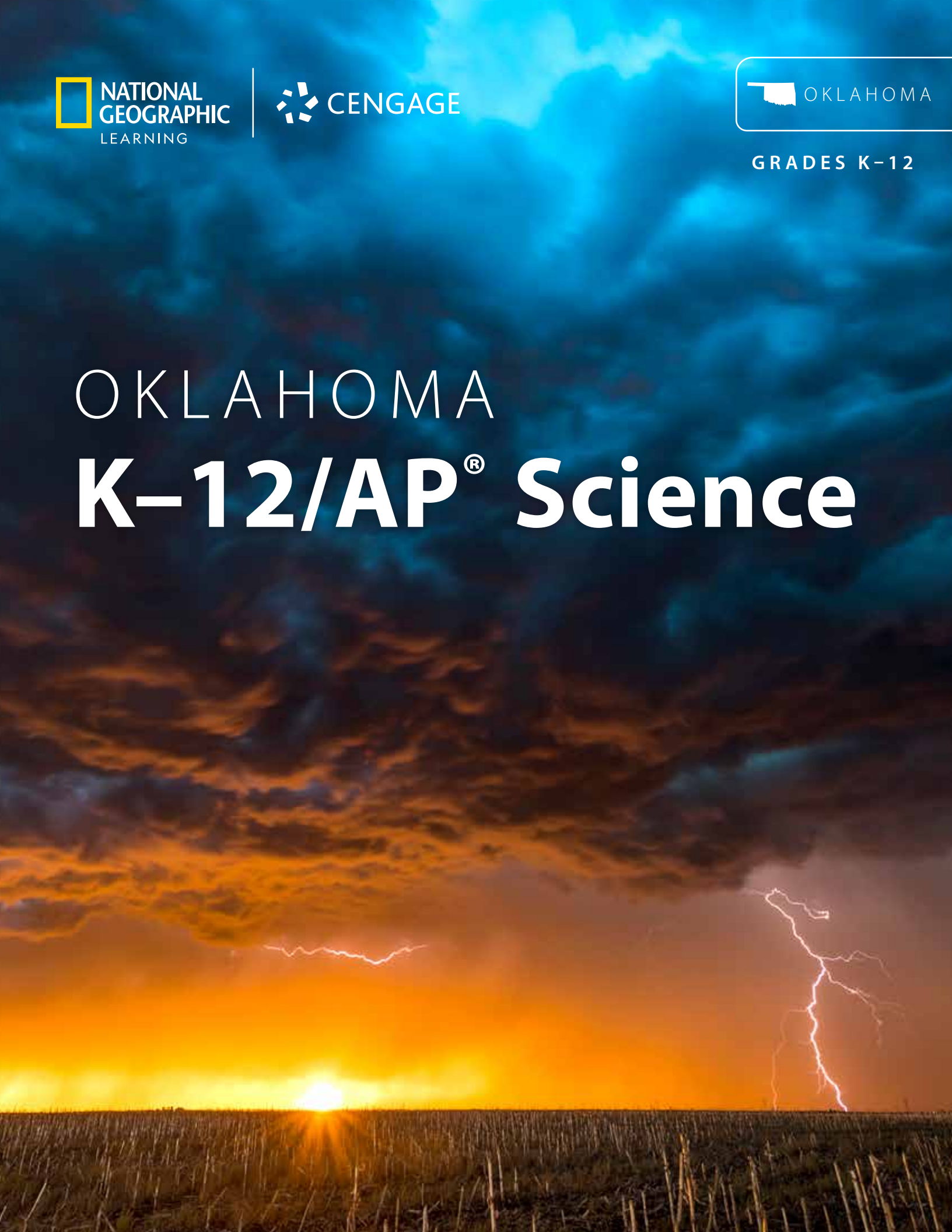


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National Geographic Learning is pleased to offer Oklahoma customers the best science programs available, backed by expert support and training. Explore our available science programs for K-12 and contact your sales representative below to request additional information and sample materials.

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K-12 SALES CONSULTANTS:

Northern Oklahoma
Brian Campbell
 (918) 810-1368
 brian.campbell@cengage.com

Southern Oklahoma
Chuck Majors
 (405) 300-8484
 chuck.majors@cengage.com

Flexible Print and Digital Options

All National Geographic Learning Science programs include digital and print options to meet your needs. The way you teach, connect, and engage students continues to evolve. National Geographic Learning supports this evolution.

In-person Instruction

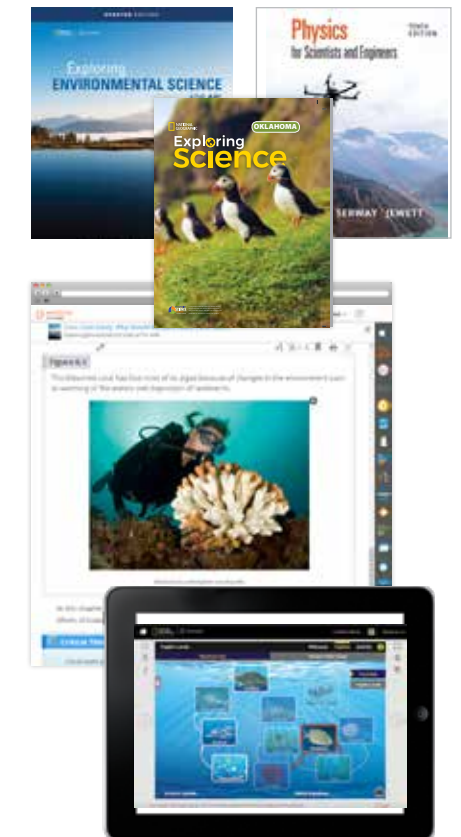
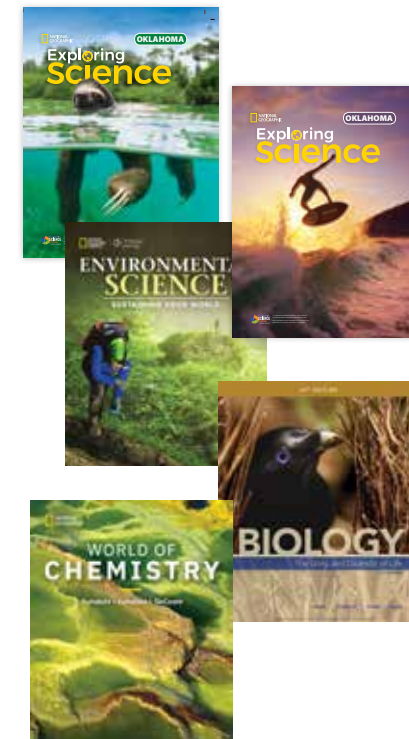
Print student books, teacher's editions, and other print materials support in-class instruction and homework. Our beautifully designed print books engage students with expert content and National Geographic images and graphics.

Virtual Instruction

Online learning environments connect program content with enhanced media including videos, animations, and virtual labs. Teachers can optimize student performance through course customization and digital assessment with instant feedback.

Hybrid Instruction

Combine the benefits of print books and online learning environments to maximize in-person and virtual instruction.



Digital Trial Accounts

Grades K-12

We have generated trial accounts for you and provided the usernames and passwords in the table below.

Please select any logins from this list and visit the Trial NGLSync Portal at:

bit.ly/ExploreOKScience

If the login you select is already in use, please use the next one on the list.

Exploring Science Oklahoma

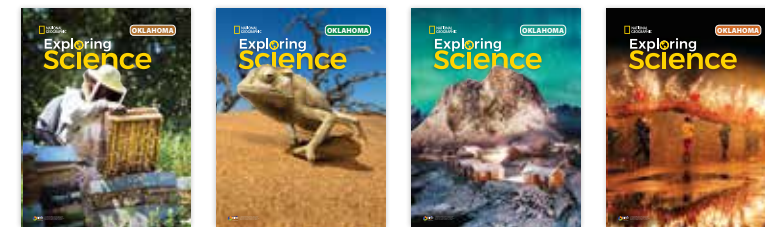
Real Science. Real World. Right Now.

Grades K-5

Exploring Science Oklahoma was built specifically for Oklahoma to teach the Oklahoma Academic Standards for Science confidently, and helps students master the 3-Dimensions of the new standards to meet the rigor of the Performance Expectations.

- In-depth mastery of 100% of the Oklahoma Academic Standards for Science for grades K-5
- Introduce real-world science practices with National Geographic Explorers, scientists, and photographers
- Balance core ideas content with hands-on investigations, STEM projects, citizen science projects, and interactive digital labs

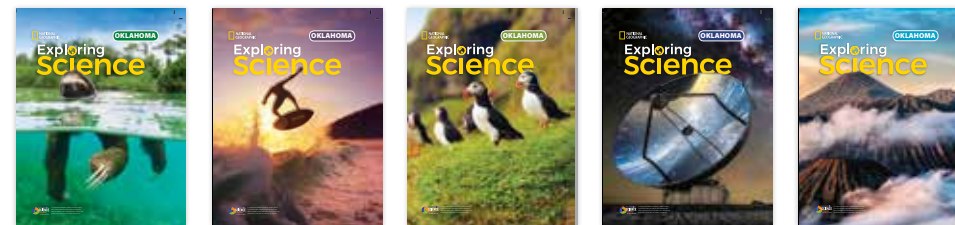
Student Editions



Kindergarten Big Books (Life, Earth, Physical, Let's Do Science)



MindTap Digital Platform



Grades 1-5 Student Books

National Geographic Explorers and Scientists

Exclusive features and videos show students how scientists use Science and Engineering Practices and methods in their real-world research. Explorers inspire students to engage in the Oklahoma Academic Standards for Science practices by introducing real-world phenomena.



Erin Pettit



Enric Sala



Shafqat Hussain



Barrington Irving



Knicole Colon



Ainissa Ramirez

► Visit NGL.Cengage.com/ExploreOKScience to learn more.

Grades K-5

Exploring Science Oklahoma

Teacher

teacher01@okscik5.com
teacher02@okscik5.com
teacher03@okscik5.com

Student

student01@okscik5.com
student02@okscik5.com
student03@okscik5.com

Password

Welcome1
Welcome1
Welcome1

Grades 9-12

Chemistry

Teacher

teacher01@okchem_owl.com
teacher02@okchem_owl.com
teacher03@okchem_owl.com

Student

student01@okchem_owl.com
student02@okchem_owl.com
student03@okchem_owl.com

Password

Welcome1
Welcome1
Welcome1

Environmental Science/Biology/Forensic Science/Astronomy/Oceanography/Meteorology

Teacher

teacher01@okscibio_enviro.com
teacher02@okscibio_enviro.com
teacher03@okscibio_enviro.com

Student

student01@okscibio_enviro.com
student02@okscibio_enviro.com
student03@okscibio_enviro.com

Password

Welcome1
Welcome1
Welcome1

Physics

Teacher

teacher01@okphys.com
teacher02@okphys.com
teacher03@okphys.com

Student

student01@okphys.com
student02@okphys.com
student03@okphys.com

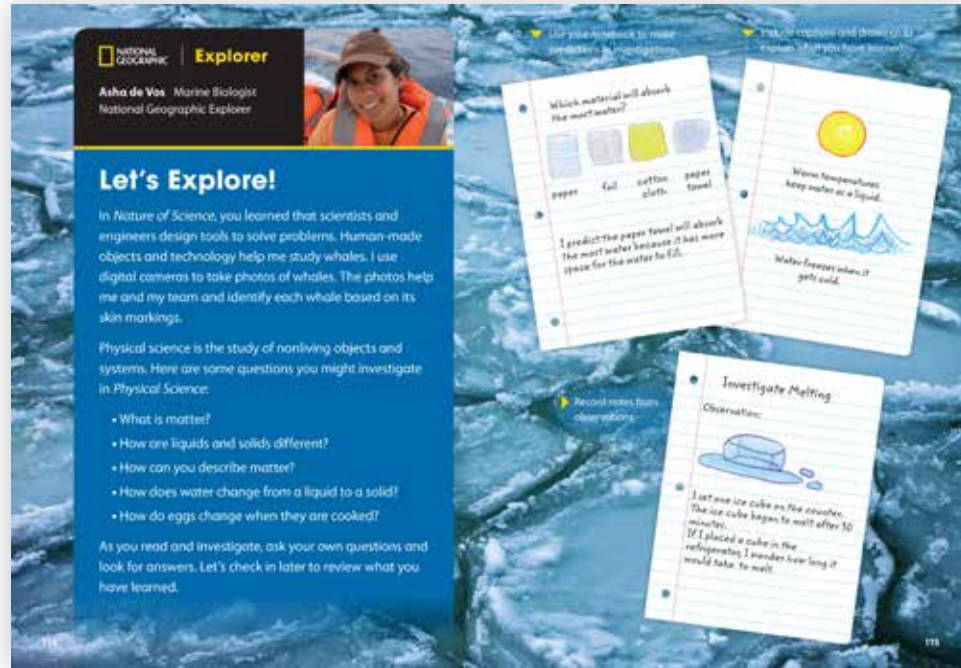
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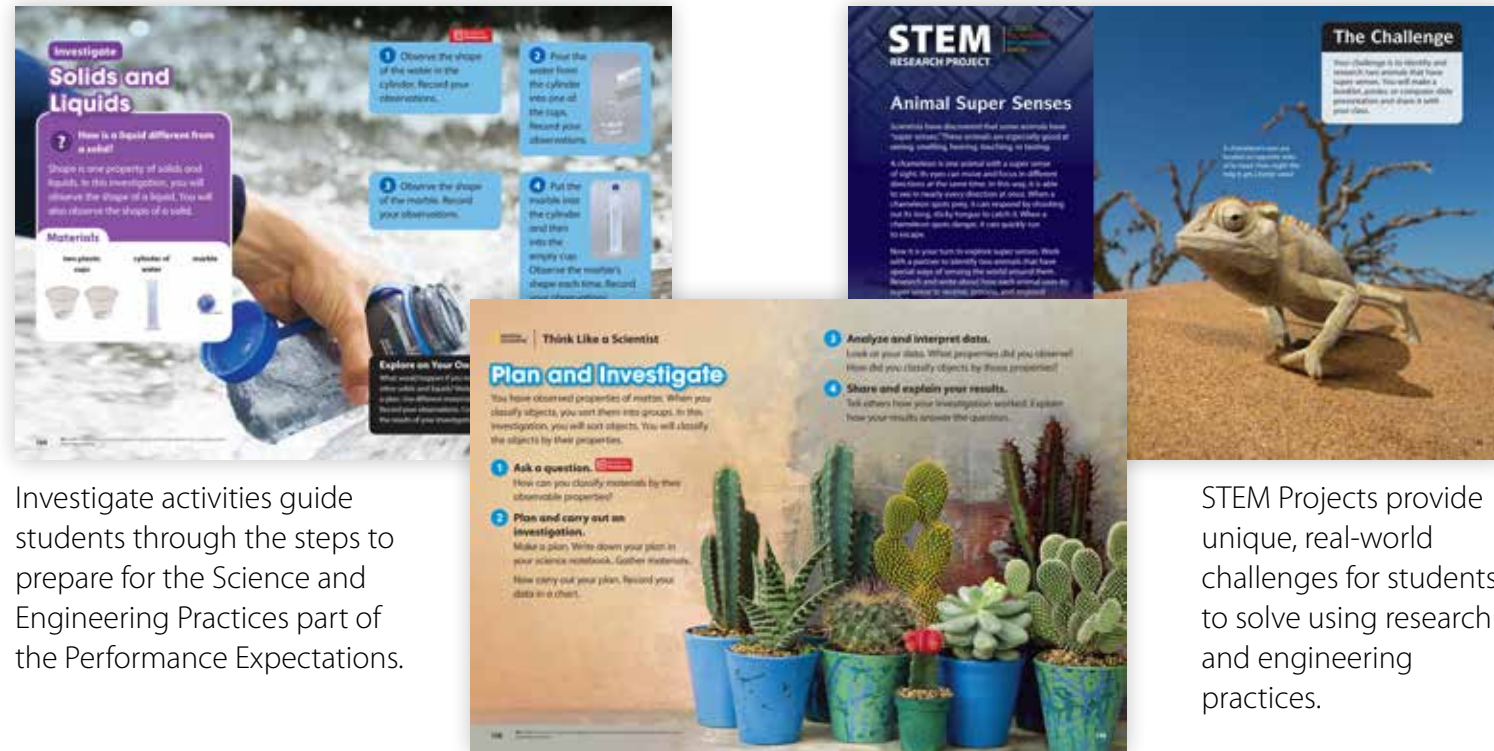
Exploring Science Oklahoma

Science Notebooking

National Geographic Explorers guide students in keeping their own science notebooks to mirror how real scientists work; students record data, ask questions, draw, write, and express thoughts about their learning.



Hands-on STEM Practice



Investigate activities guide students through the steps to prepare for the Science and Engineering Practices part of the Performance Expectations.

STEM Projects provide unique, real-world challenges for students to solve using research and engineering practices.

Think Like a Scientist and Think Like an Engineer are Performance Expectation activities where students apply their knowledge and skills in 3-D, hands-on performances.

Teacher Support

Teacher's Editions for each grade provide all of the support needed to implement and assess the 3-Dimensions of the Oklahoma Academic Standards for Science. Master the Performance Expectations with phenomena-based lessons utilizing the 5E model: Engage, Explore, Explain, Elaborate, and Evaluate.

- Unit Planning Guide overviews 3-D lesson sequences
- Differentiation support for all levels of learners
- Digital learning support for using the online platform for enhanced instruction

Interactive Technology

MindTap for Exploring Science Oklahoma is an engaging and interactive student experience and provides teachers with powerful assessment and analytics to help students master the Oklahoma Academic Standards for Science.



Kindergarten

Big Book Set—1 each of Earth, Life, Physical, and Let's Do Science Big Books	9780357571637	\$210.00
MindTap (6-years)	9780357648605	\$54.50
MindTap (1-year)	9780357649916	\$13.75
Teacher's Edition	9780357648438	\$98.00

Grade 1

Student Edition + MindTap (6-years)	9780357571644	\$64.50
Student Edition + MindTap (1-year)	9780357571651	\$59.50
Student Edition	9780357648384	\$54.50
MindTap (6-years)	9780357648490	\$54.50
MindTap (1-year)	9780357649961	\$13.75
Teacher's Edition	9780357648445	\$98.00

Grade 2

Student Edition + MindTap (6-years)	9780357571668	\$64.50
Student Edition + MindTap (1-year)	9780357571675	\$59.50
Student Edition	9780357648391	\$54.50
MindTap (6-years)	9780357648506	\$54.50
MindTap (1-year)	9780357649954	\$13.75
Teacher's Edition	9780357648452	\$98.00

Grade 3

Student Edition + MindTap (6-years)	9780357571682	\$69.00
Student Edition + MindTap (1-year)	9780357571699	\$64.00
Student Edition	9780357648407	\$59.00
MindTap (6-years)	9780357648513	\$59.00
MindTap (1-year)	9780357649947	\$14.75
Teacher's Edition	9780357648469	\$98.00

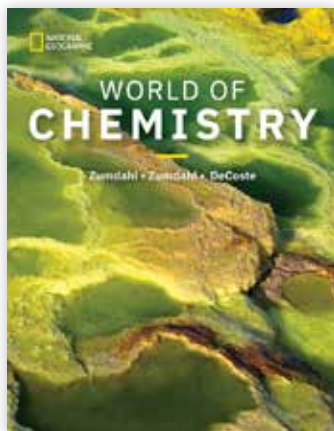
Grade 4

Student Edition + MindTap (6-years)	9780357571705	\$69.00
Student Edition + MindTap (1-year)	9780357571712	\$64.00
Student Edition	9780357648421	\$59.00
MindTap (6-years)	9780357648520	\$59.00
MindTap (1-year)	9780357649930	\$14.75
Teacher's Edition	9780357648476	\$98.00

Grade 5

Student Edition + MindTap (6-years)	9780357571729	\$69.00
Student Edition + MindTap (1-year)	9780357571736	\$64.00
Student Edition	9780357648414	\$59.00
MindTap (6-years)	9780357648537	\$59.00
MindTap (1-year)	9780357649923	\$14.75
Teacher's Edition	9780357648483	\$98.00

Chemistry



World of Chemistry

Zumdahl, Zumdahl, DeCoste
 Grades 9–12 Fourth Edition ©2021 9781337916127

- Designed for on-level chemistry courses to meet the needs of students with little or no prior chemistry experience
- The 4th edition has been completely redesigned to include National Geographic photography and graphics
- Explorers at Work features profile the research and problem-solving work of National Geographic Explorers
- Problem-solving support for students includes examples in the text paired with worked out solutions that demonstrate the reasoning used to solve the problem
- Case Studies for every chapter describe real-world scenarios related to the chapter contents
- Engineering design is integrated through Exploring Engineering and Chemical Engineering features
- Differentiated learning support includes leveled practice problems, team-learning worksheets, and Meeting Individual Needs resources

Hardcover, 926 pages

World of Chemistry

Student Edition	9781337916127	\$105.00
Student Edition + OWLv2 with eBook (6-year access)	9780357490525	\$135.00
Student Edition + OWLv2 with eBook (1-year access)	9780357490532	\$112.00
OWLv2 with eBook + VitalSource (6-year access)	9780357490549	\$105.00
OWLv2 with eBook + VitalSource (1-year access)	9780357490556	\$50.00
Activity Guide	9780357422366	\$18.50
Teacher's Edition	9780357422342	\$170.00

Includes Cengage Learning Testing, powered by Cognero®

Hands-on Chemistry

Relative Masses

Materials: cotton balls, paper clips, rubber stoppers, rubber stoppers, balance

Procedure:

1. Obtain cotton balls, paper clips, and rubber stoppers from your teacher.
2. Devise a method to find the average mass of each of these objects. Discuss this method with your teacher.
3. Copy the table into your paper. Determine the average mass of each object. Record the average mass of each of the objects in your table.

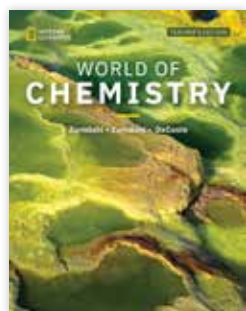
	Mass of one object	Relative mass of one object	Mass of n objects
Cotton balls	g		lb
Paper clips	g		lb
Rubber stoppers	g		lb

Analysis:

1. **Compare** Give the lightest object a relative mass of 1.0 in your table. Determine the relative mass of the remaining objects, and record these in your table.
2. **Calculate** How many of the lightest object would you need to have a pound of that object? Call this number n.
3. **Calculate** If you had n of each of the other objects, how much would each sample weigh? Fill these numbers into your table.
4. **Analyze** Determine which column corresponds to the universal terms "atomic mass" and "molar mass."
5. **Interpret** Which number represents "Avogadro's number"?

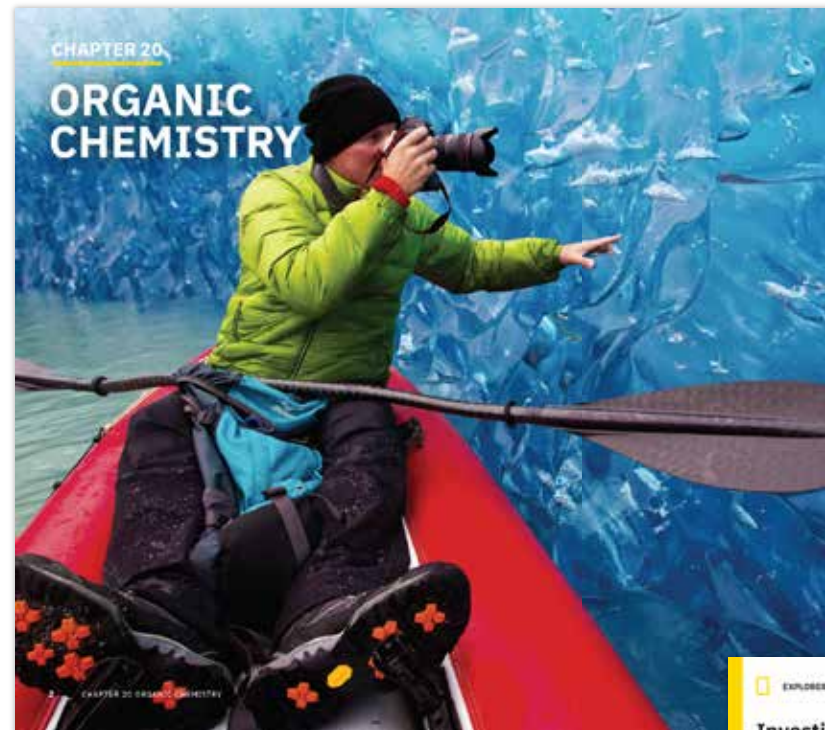
Hands-on Chemistry

Hands-on investigations are included at the end of every Chapter while Hands-on Chemistry Minilabs are embedded throughout each chapter. A downloadable Lab Manual is available with additional labs aligned to the program and a print Activity Guide includes hands-on, 3-Dimensional lessons.



Teacher Support

The wraparound Teacher's Edition includes Chapter Planning Guides summarizing chapter resources, support for differentiation, hands-on lessons, interdisciplinary and career connections, and OWLv2 online learning resources.



Did you know that nearly all of the plastic-based materials you use come from the same sources as gasoline, natural gas, and other fuels? Petroleum-based polymers—plastics derived from fossil fuel resources—are everywhere. They are in synthetic rubbers, like those used to make an inflatable kayak. They are used to produce carbon fiber composites for making fast paddles. The nylon used to make a winter coat, the polyester lining used to line it, and the polyvinyl chloride (PVC) used to make waterproof footwear are all examples of polymers developed from carbon compounds.

Organic chemistry, the study of carbon-based materials, plays a vital role in our quest to understand living systems. Beyond that, the synthetic fibers, plastics, artificial sweeteners, and medicines that we take for granted are products of industrial organic chemistry. Finally, the energy that we rely on so heavily to power our civilization is currently based mostly on the combustion of organic materials found in coal and petroleum.

PREREADING QUESTIONS

- 20.1 What do you know about methanol, propane, and butane?
- 20.2 What are some uses for petroleum?
- 20.3 What first comes to mind when you hear the term polymer?

Authentic Student Engagement

Engage students with National Geographic images and stories of National Geographic Explorers who use chemistry to solve real-world problems. "Case Studies" and "Chemistry in Your World" features highlight real-world applications of chemistry.

EXPLORERS AT WORK

Investigating Marine Microplastics

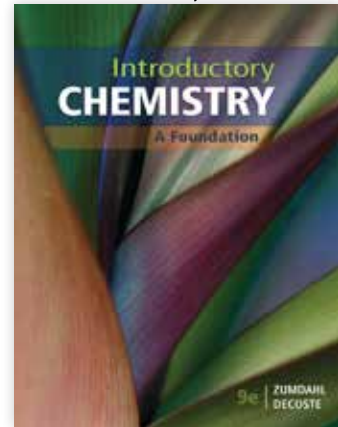
with National Geographic Explorer Jonagan Nepper



Master Chemistry with OWLv2

- OWLv2 is a digital platform designed specifically for chemistry with special chemistry notation tools and the ChemDoodle molecule and bond sketcher
- Engage students with videos, simulations, and visualizations to help apply chemistry concepts to real-world scenarios
- Teachers have complete control and flexibility to design the course and assignments to fit their exact needs
- Includes a highly interactive eBook with embedded videos, 3D molecules, simulations, and digital flashcards

Chemistry



OFFERED SEPARATELY FROM OKLAHOMA STATE ADOPTION

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



A chemist-developed homework solution with eBook that develops problem solving mastery

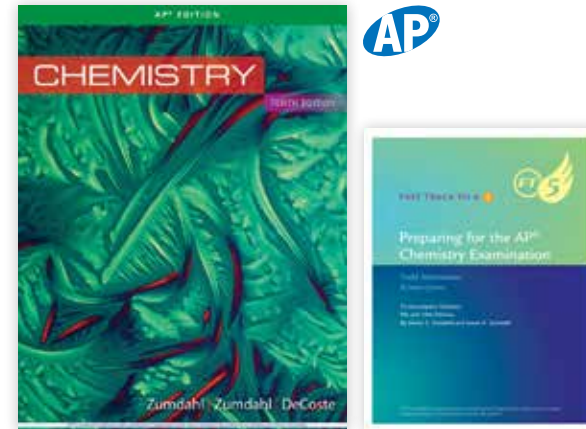
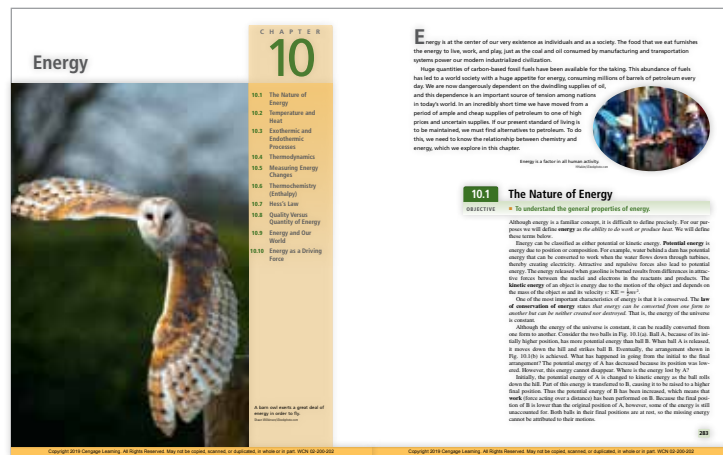
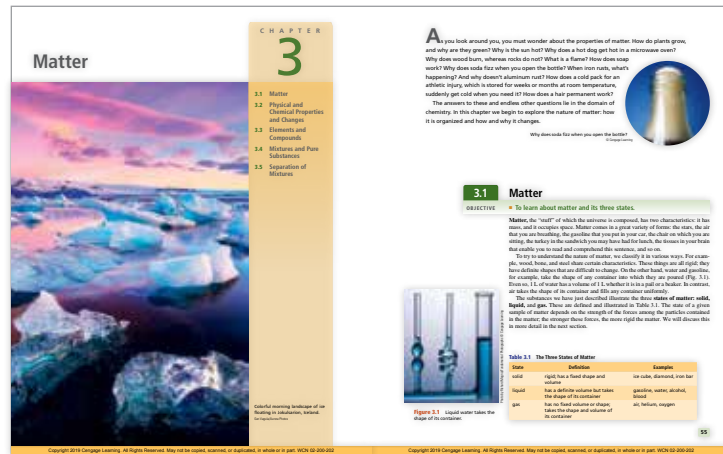


Students have access anytime on almost any device with this downloadable eBook

Introductory Chemistry: A Foundation

Student Edition	9781337399449	\$140.75
Student Edition + OWL with eBook (6-year access)	9781337860413	\$170.75
OWL with eBook + VitalSource® (6-year access)	9781337860420	\$140.75
OWL with eBook + VitalSource® (1-year access)	9781337860437	\$50.00
Student Solutions Manual	9781337399470	\$85.75
Annotated Instructor's Edition	9781337399432	\$168.75

Includes Cengage Learning Testing, powered by Cognero®



Chemistry, AP® Edition

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

- Updated with new content and AP®-style questions to meet the 2019 course updates
- 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



A chemist-developed homework solution with eBook that develops problem solving mastery



Students have access anytime on almost any device with this downloadable eBook

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

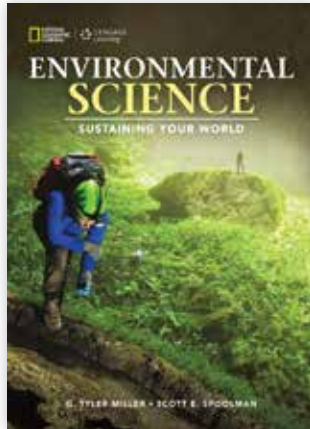
Paperback, 384 pages

Chemistry, AP® Edition

Student Edition	9781305957732	\$169.00
Student Edition (AP® Edition) + OWL with eBook and Online Fast Track to a 5 (6-year access)	9781337427012	\$199.00
OWL and Online Fast Track to a 5 + VitalSource® (6-year access)	9781337427029	\$169.00
OWL and Online Fast Track to a 5 + VitalSource® (1-year access)	9781337427036	\$50.00
Fast Track to a 5 AP® Test Preparation Workbook for Chemistry, AP® Edition	9781305957480	\$24.75
Annotated Teacher's Edition	9781305957749	\$244.50
AP® Teacher's Resource Guide	9781305957794	\$10.00
AP® Lab Manual	9781305957466	\$67.75
Student Solutions Manual	9781305957510	\$102.00
Study Guide	9781305957473	\$96.75
Teacher's Resource Manual to AP® Lab Manual	9781305957411	\$10.00
Test Bank for AP® Chemistry	9781305957527	\$10.00
Inquiry Based Learning Guide	9781305957497	\$35.50

Includes Cengage Learning Testing, powered by Cognero®

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
- 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



Increase student engagement with a personalized learning path including media-rich eBook, online assessments, and study tools.

- Personalize the course to meet your needs
- Track student progress and success with powerful analytics
- Easily create assignments and reminders for students

Environmental Science: Sustaining Your World

Student Edition	9781305637429	\$85.50
Student Edition + MindTap™ (6-year access)	9781337379465	\$115.50
Student Edition + MindTap™ (1-year access)	9781337379458	\$92.50
MindTap™ (6-year access)	9780357084106	\$85.50
MindTap™ (1-year access)	9781305649774	\$50.00
Annotated Instructor's Edition	9781305645776	\$112.25

Includes Cengage Learning Testing, powered by Cognero®

Expert content and National Geographic imagery for Environmental Science



Impactful National Geographic images

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

Reader-friendly content and scientific vocabulary

Encourage critical thinking skills

Table of Contents

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

Environmental Science



OFFERED SEPARATELY FROM OKLAHOMA STATE ADOPTION

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

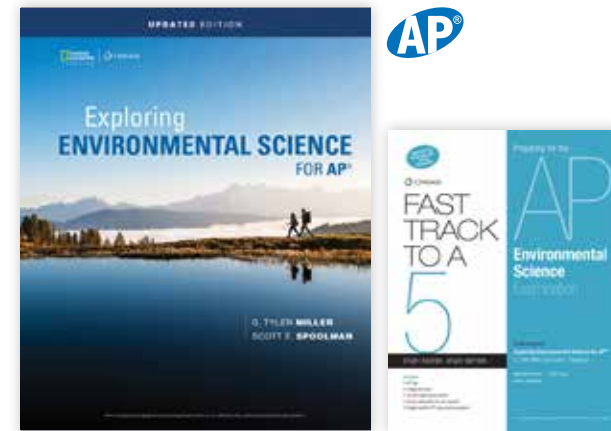
Hardcover, 576 pages

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

Environmental Science

Student Edition	9781337569743	\$142.00
Student Edition + MindTap™ (6-year access)	9781337858182	\$172.00
Student Edition + MindTap™ (1-year access)	9781337858199	\$149.00
MindTap™ (6-year access)	9780357084113	\$142.00
MindTap™ (1-year access)	9781337612821	\$50.00

Includes Cengage Learning Testing, powered by Cognero®



Exploring Environmental Science for AP®, Updated

Miller, Spoolman
Grades 9–12 First Edition Updated ©2021 9780357436325

- Updated with new content and AP®-style questions to meet the 2019 course updates
- AP® Multiple Choice and Free-Response review questions appear at the end of each Chapter and each Unit, and a full AP® Practice Test is included at the end of the book, all updated to the 2019 course framework updates
- 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
- *Math Connection* are FRQ-style analysis features that appear in each chapter to build quantitative literacy and provide math skills practice in real-world situations

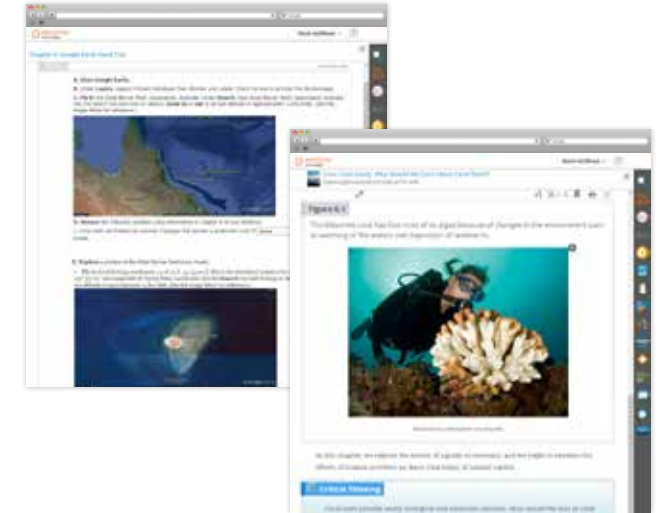
Hardcover, 677 pages

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

Exploring Environmental Science for AP® (Updated)

Student Edition	9780357436325	\$143.25
Student Edition + MindTap™ (6-year access)	9780357492888	\$173.25
Student Edition + MindTap™ (1-year access)	9780357492895	\$150.25
MindTap™ (6-year access)	9780357461921	\$143.25
MindTap™ (1-year access)	9780357437834	\$50.00
Fast Track to a 5 Test Preparation Workbook	9780357437827	\$24.75
Teacher's Edition	9780357437810	\$78.75
AP® Teacher's Resource Guide	9781337705691	\$78.75

Includes Cengage Learning Testing, powered by Cognero®



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.
- Updated AP®-style questions are auto-graded to help teachers prepare students for the updated AP® test
- Google Earth Field Trip assignments virtually take students to real locations with assessment questions included.
- **FAST TRACK TO A 5** **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

Biology



Biology: Concepts and Applications

Starr, Evers, Starr

Grades 9–12 Tenth Edition ©2018 9781337094825

- Perfect for an Honors Biology course, this text provides an introductory, issues-oriented approach that focuses on teaching the process of science and basic biological principles
- Includes features to help visual learners including “Figure It Out” questions, accompanied by many illustrations, to ensure students understand the concepts, and new “Data Analysis Activities” at the end of each chapter to help students strengthen their analytical skills
- New “Take Home Messages” that ensure students grasp key concepts, with special features like the chapter-opening case studies and “How Would You Vote?” questions to enliven the subject matter and make relevant connections between biology and real-life concerns

Hardcover, 864 pages

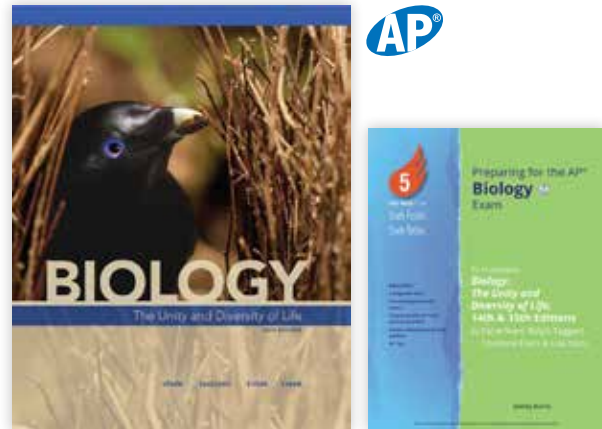


This personal learning environment combines the eBook and resources into a singular Learning Path

Biology: Concepts and Applications

Student Edition	9781337094825	\$147.00
Student Edition + MindTap™ (6-year access)	9781337426978	\$177.00
Student Edition + MindTap™ (1-year access)	9781337426985	\$154.00
MindTap™ (6-year access)	9780357084168	\$147.00
MindTap™ (1-year access)	9781337397643	\$50.00

Includes Cengage Learning Testing, powered by Cognero®



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

Starr, Taggart, Evers, Starr

Grades 10–12 Fifteenth Edition © 2019 9781337408592

- Updated with new content and AP®-style questions to meet the 2019 course updates
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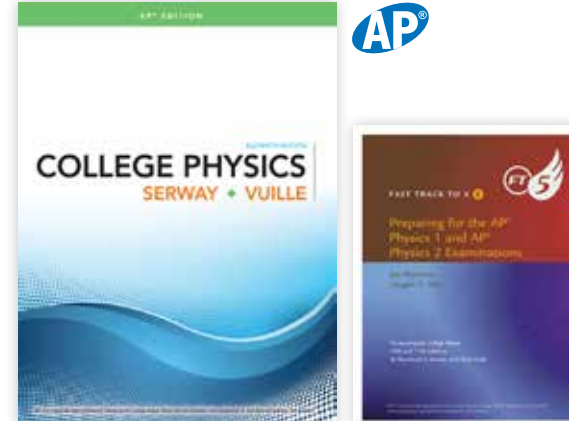
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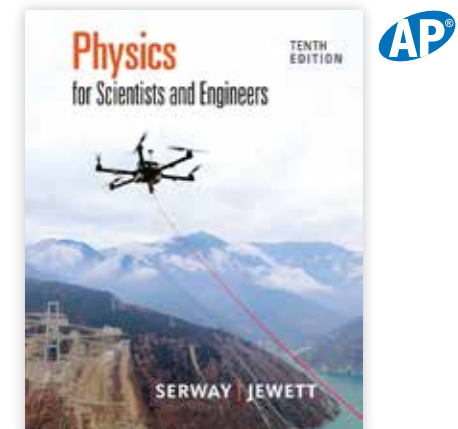
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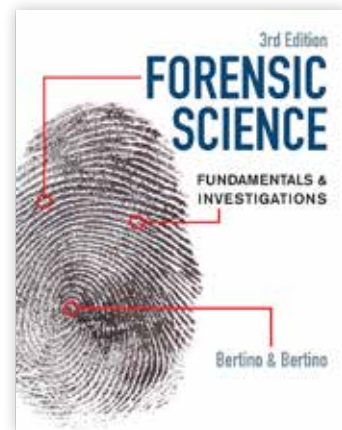
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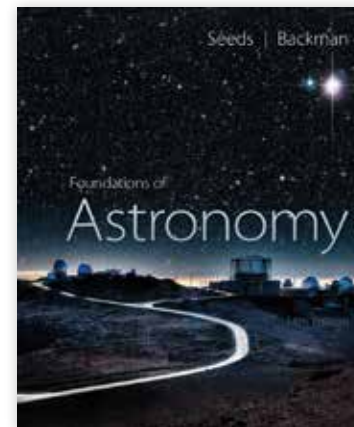
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Seeds, Backman
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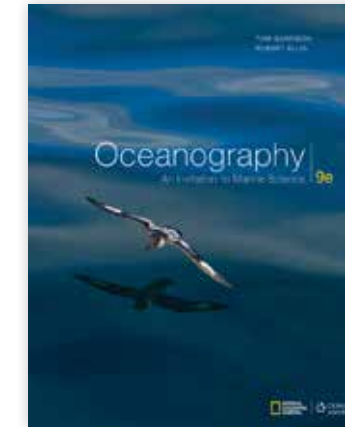
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Garrison, Ellis
Grades 9–12 Ninth Edition ©2016 9781305105164

- Provides a basic understanding of the scientific questions, complexities, and uncertainties involved in ocean use, as well as the role and importance of the ocean in nurturing and sustaining life on the planet
- Text emphasizes the interdisciplinary nature of marine science, emphasizing its links to biology, chemistry, geology, physics, meteorology, astronomy, ecology, history, and economics
- Provides coverage of new research plus increased information on climate change, with icons throughout the book to help students easily identify and connect the many factors that affect the world's climate and oceans

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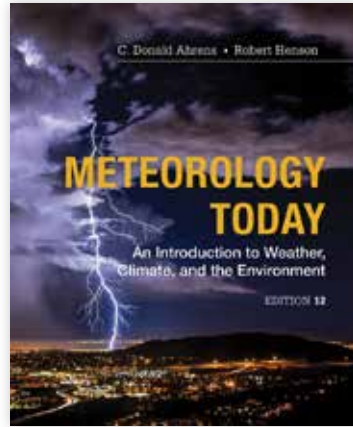
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Ahrens, Henson

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- Grounded in the scientific method, this engaging and highly visual text shows students how to observe, calculate, and synthesize information, systematically analyzing meteorological concepts and issues
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- “Focus On” boxes examine concepts at greater depth to add realistic context and meaning to meteorological observation methods, environmental issues, and a variety of more advanced topics
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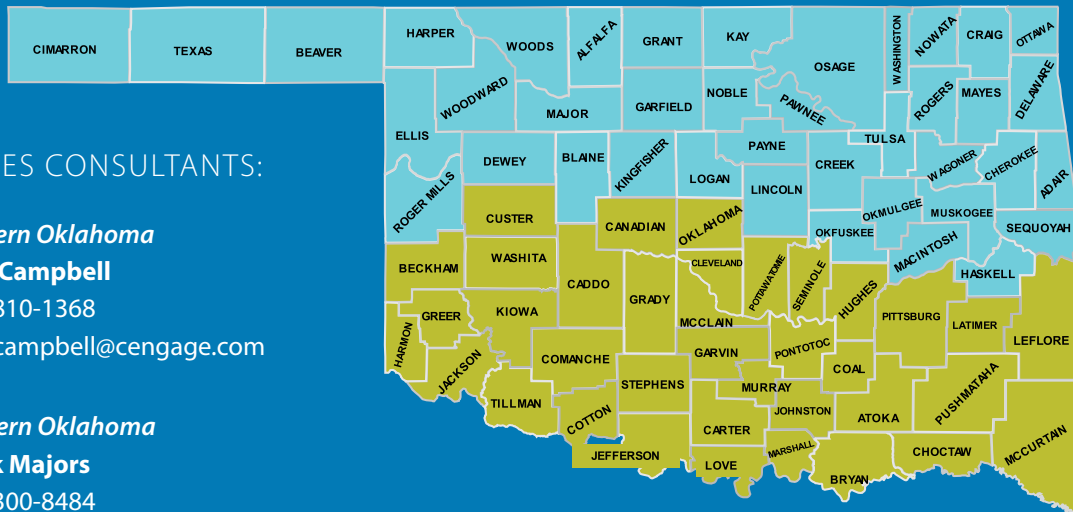
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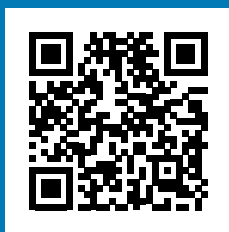
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