



SCIENCE

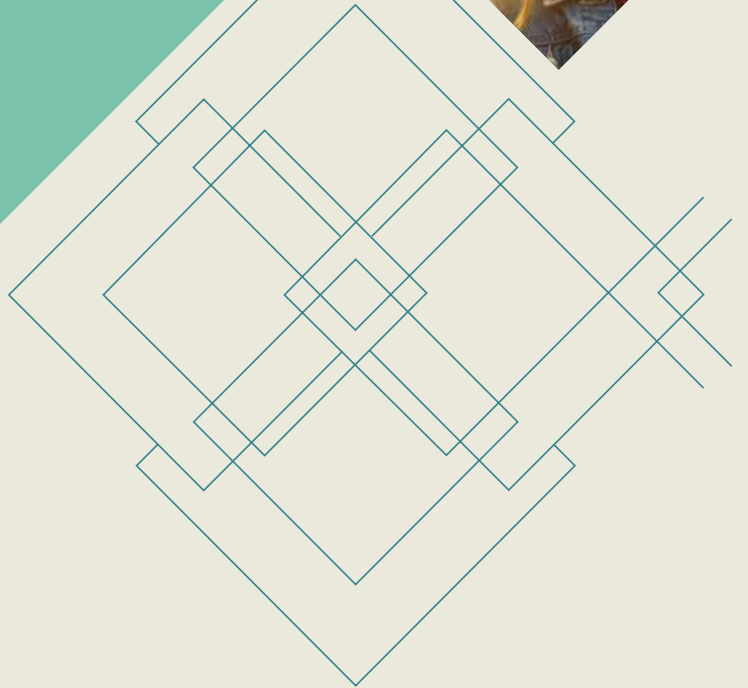
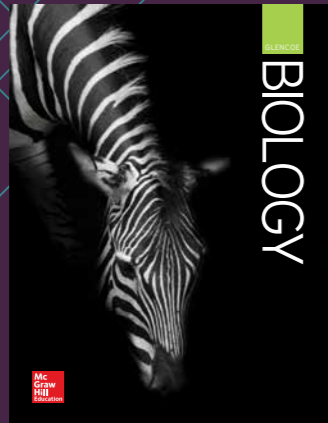


TABLE OF CONTENTS

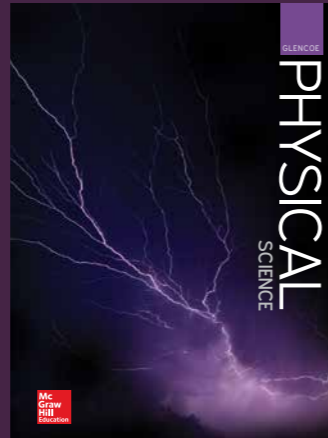
Recommended for 2018



Page 06



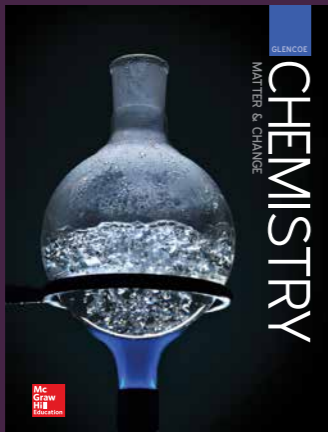
Page 24



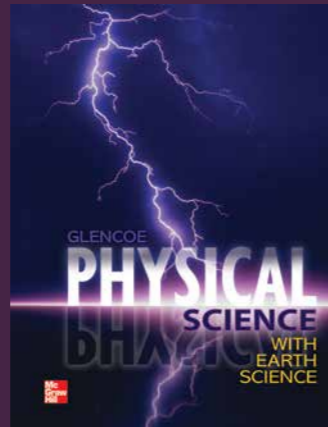
Page 30



Page 18



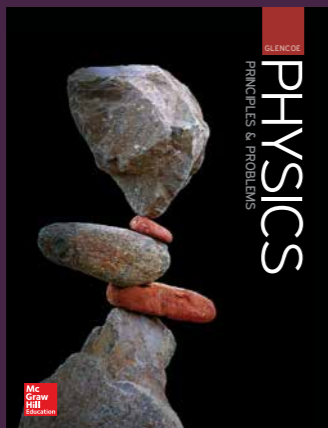
Page 26



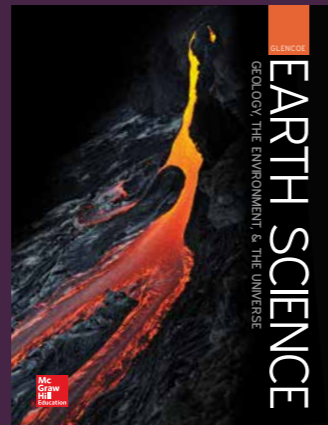
Page 32



Page 20



Page 28



Page 34

PreK-6

- 06 Inspire Science
- 11 Science A Closer Look

Grade 3-12

- 14 Customized Solution
- 16 Professional Development (*School*)

Grade 6-12

- 18 LearnSmart + SmartBook
- 20 Integrated iScience, Earth & Space, Life iScience & Physical iScience
- 24 Glencoe Biology
- 26 Chemistry: Matter and Change
- 28 Glencoe Physics: Principles & Problems
- 30 Physical Science
- 32 Glencoe Physical Science with Earth Science
- 34 Earth Science: Geology, the Environment, and the Universe
- 36 Chemistry: Concepts and Applications

Advanced Placement

- 38 ONboard, Connect & SCOREboard
- 40 Hole's Human Anatomy & Physiology
- 42 Biology *Mader*
- 43 Biology *Raven*
- 44 Inquiry into Life
- 45 Human Genetics: Concepts and Applications
- 46 Marine Science
- 47 Stern's Introductory Plant Biology
- 48 Integrated Principles of Zoology
- 49 Zoology
- 50 Chemistry: The Molecular Nature of Matter and Change
- 51 Chemistry
- 52 Astronomy
- 53 Environmental Science: A Global Concern
- 54 Environmental Science: A Study of Interrelationships





Learning begins with curiosity. Inspire Science is designed to help you spark that curiosity in your students and inspire the next generation of innovators and inventors to ask more **WHYs**, think more critically, and become creative problem solvers. It's proof that science education can be more comprehensive and, yes, more fun.



What makes Inspire Science so powerful?



SIMPLE

It helps you embrace science through a simple, user-friendly teaching experience.



CONNECTED

It helps you get more out of science time through built-in literacy and math connections.



INSPIRING

It helps you prepare students for a future full of STEM opportunities with hands-on, real-world problem-solving instruction designed for 21st century standards and learners. So they can become an engineer. Or an astronaut. Or something we haven't even discovered yet.

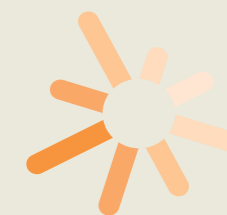


RILEY
Automotive Engineer



ANTONIO
Robotics Engineer

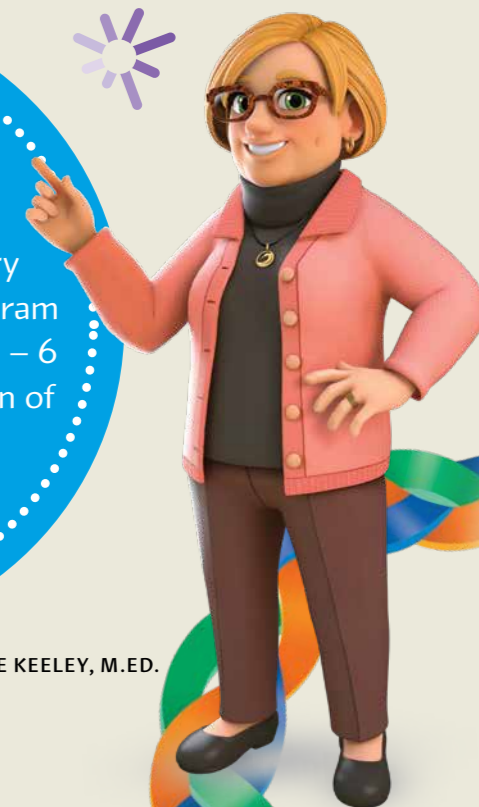
- STEM, Cross Curricular Math and Literacy connections
- ESL and differentiation strategies
- Collaboration & Communication
- Predicting & Evaluating Data
- Develop Inquiry Skills
- Plan & Conduct Investigations
- Apply Scientific knowledge to problem solve
- Lesson-planning guides and vocabulary support
- User-friendly, step-by-step teaching instructions
- Science background and misconception information



Get Ready to Be Inspired!

Introducing the new Primary Science blended learning program designed for students grade 1 – 6 to prepare the next generation of innovators.

PAGE KEELEY, M.ED.



⚙️ **Disciplinary Core Ideas**
(for example, “The Universe and Its Stars”)

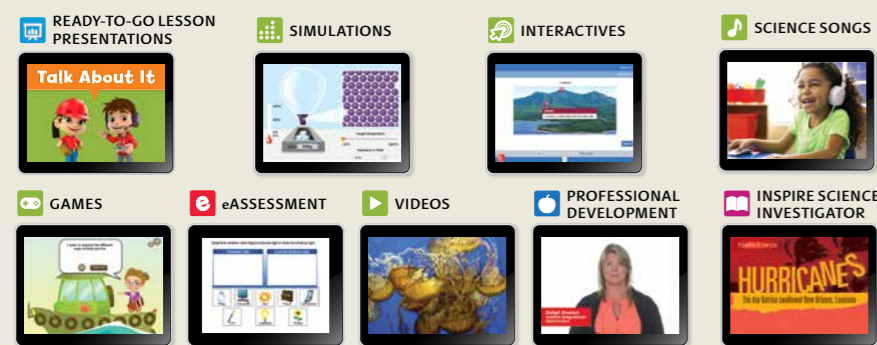
⚙️ **Science and Engineering Practices**
(for example, “Developing and Using Models”)

⚙️ **Crosscutting Concepts**
(for example, “System and System Models”)

INSPIRE SCIENCE

www.mheducation.asia/inspire-science

Different Types of Online Resources



CHLOE Carpenter

Digital & Physical Component Price List

	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Teacher Bundle Print Teacher's Edition & Online Teacher Center - 1 Year Subscription	X	X	X	X	X	X
Student Bundle Print Be a Scientist Notebook & Online Student Learning Center - 1 Year Subscription	X	X	X	X	X	X
Paired Read Aloud Class Set 1 Each of 12 Books	X	X	X			
Leveled Reader Class Set 1 Each of 56 Books - 2 titles, 7 modules, 4 levels, 1 copy				X	X	
Leveled Reader Class Set 1 Each of 48 Books - 2 titles, 6 modules, 4 levels, 1 copy						X
Teacher Demonstration Science Kit	X	X	X	X	X	X
Small Group Science Kit	X	X	X	X	X	X
Science Handbook Level 1				X		
Science Handbook Level 2					X	X

Teacher Print/Digital Bundles

Multi-year Teacher Subscription (Digital with digital assets accessible, fully aligned with 2.0 print Teacher's Edition content)

Grade K 1-year subscription	978-0-07-679988-6
Grade 1 1-year subscription	978-0-07-679997-8
Grade 2 1-year subscription	978-0-07-680005-6
Grade 3 1-year subscription	978-0-07-679965-7
Grade 4 1-year subscription	978-0-07-679973-2
Grade 5 1-year subscription	978-0-07-679980-0

Student Basic Bundles

Multi-year Student Subscription and Be a Scientist Notebook (consumable and sent annually)

Grade K 1-year subscription	978-0-07-679443-0
Grade 1 1-year subscription	978-0-07-679448-5
Grade 2 1-year subscription	978-0-07-679453-9
Grade 3 1-year subscription	978-0-07-679458-4
Grade 4 1-year subscription	978-0-07-679472-0
Grade 5 1-year subscription	978-0-07-679480-5

Student Deluxe Bundles

Multi-year Student Subscription; Be a Scientist Notebook (consumable and sent annually); Hardbound Science Handbook (initial year only)

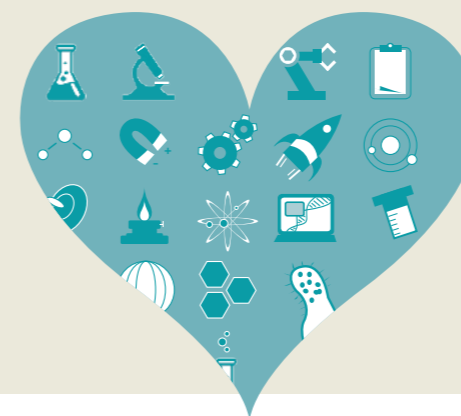
Grade 3 1-year subscription	978-0-07-679489-8
Grade 4 1-year subscription	978-0-07-679497-3
Grade 5 1-year subscription	978-0-07-679506-2

Online Teacher Centers

Grade K 1-year subscription	978-0-02-137588-2
Grade 1 1-year subscription	978-0-02-135018-6
Grade 2 1-year subscription	978-0-02-133394-3
Grade 3 1-year subscription	978-0-02-134376-8
Grade 4 1-year subscription	978-0-02-135907-3
Grade 5 1-year subscription	978-0-02-134457-4

Online Student Centers

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Grade 2 1-year subscription	978-0-02-135184-8
Grade 3 1-year subscription	978-0-02-135191-6
Grade 4 1-year subscription	978-0-02-133298-4
Grade 5 1-year subscription	978-0-02-137582-0

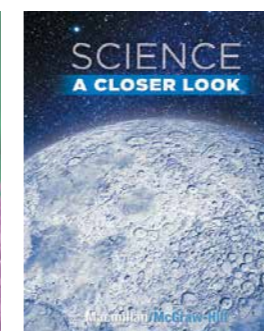
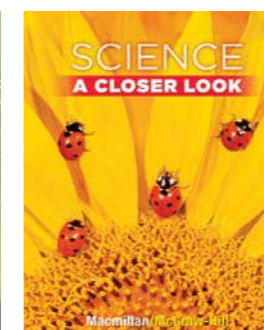
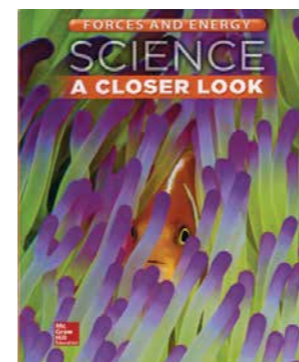
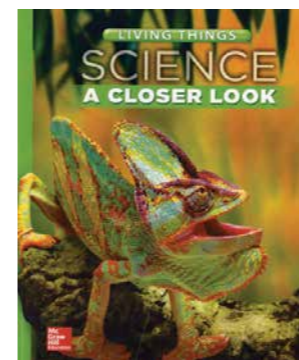


Leveled Readers

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Grade 3, 1 each of 48 books	978-0-07-665916-6
Grade 4, 1 each of 48 books	978-0-07-666092-6
Grade 5, 1 each of 48 books	978-0-07-666087-2
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Grade 2, 6 each of 48 books	978-0-07-665914-2
Grade 3, 6 each of 56 books	978-0-07-666091-9
Grade 4, 6 each of 56 books	978-0-07-666086-5
Grade 5, 6 each of 48 books	978-0-07-666094-0
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Grade 2, 1 each of 12 books	978-0-07-667723-8
Grade 3, 1 each of 14 books	978-0-07-667726-9
Grade 4, 1 each of 14 books	978-0-07-667730-6
Grade 5, 1 each of 12 books	978-0-07-667668-2
Spanish Leveled Reader Library	
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Grade 1, 6 each of 12 books	978-0-07-667722-1
Grade 2, 6 each of 12 books	978-0-07-667725-2
Grade 3, 6 each of 14 books	978-0-07-667728-3
Grade 4, 6 each of 14 books	978-0-07-667731-3
Grade 5, 6 each of 12 books	978-0-07-667669-9
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Grade 3	978-0-07-898526-3
Grade 4	978-0-07-898527-0
Grade 5	978-0-07-898528-7
Small Group Kits	
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A CLOSER LOOK

Deliver Lifelong Learning

Science A Closer Look, offers students exciting and accessible standards-based lessons. Engaging activities promote curiosity and foster the development of science inquiry skills. Through a consistent and structured learning cycle, students confidently build upon their experiences to develop a lifelong understanding of science concepts.

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Forces and Energy	978-0-02-135613-3
Grade 4	
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Forces and Energy	978-0-02-135619-5
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Ecosystems	978-0-02-135623-2
Earth and Its Resources	978-0-02-135626-3
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Grade 4	978-0-02-143816-7
Grade 5	978-0-02-143817-4

SCIENCE A CLOSER LOOK

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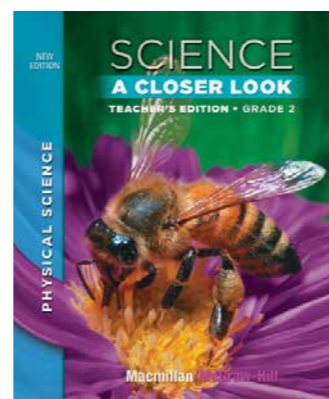
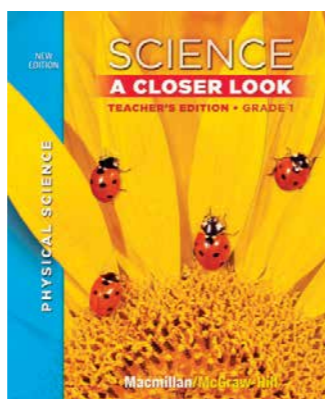
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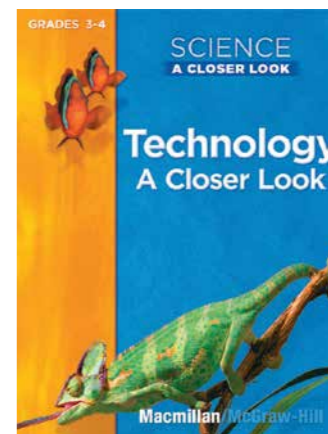
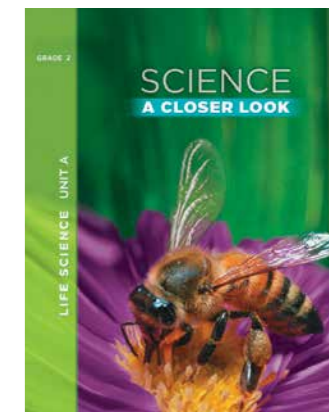
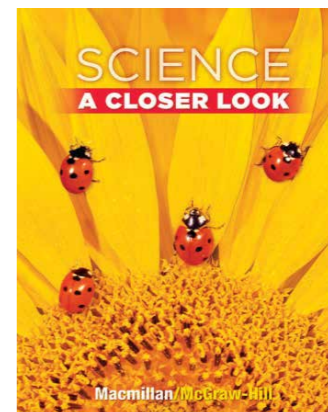
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Grades 1-2

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PROFESSIONAL DEVELOPMENT

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- Glencoe Math
- iScience
- Number Worlds®
- High School Science
- Networks
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- Progress monitoring allows you to track programspecific professional development.
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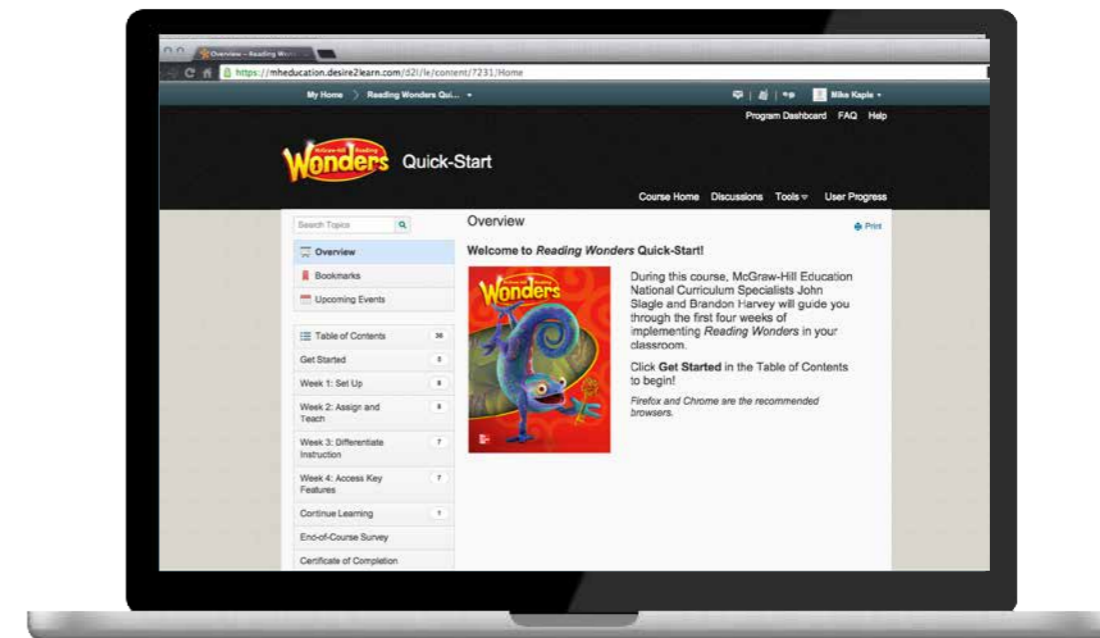
PROFESSIONAL DEVELOPMENT

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For back-to-school implementation

Quick-Start online courses deliver weekly video-based instruction to support your back-to-school implementation of McGraw-Hill Education programs. They provide:

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- Exposure to the tools and components teachers use during the first few weeks of program implementation
- A timely, well-organized way to get information



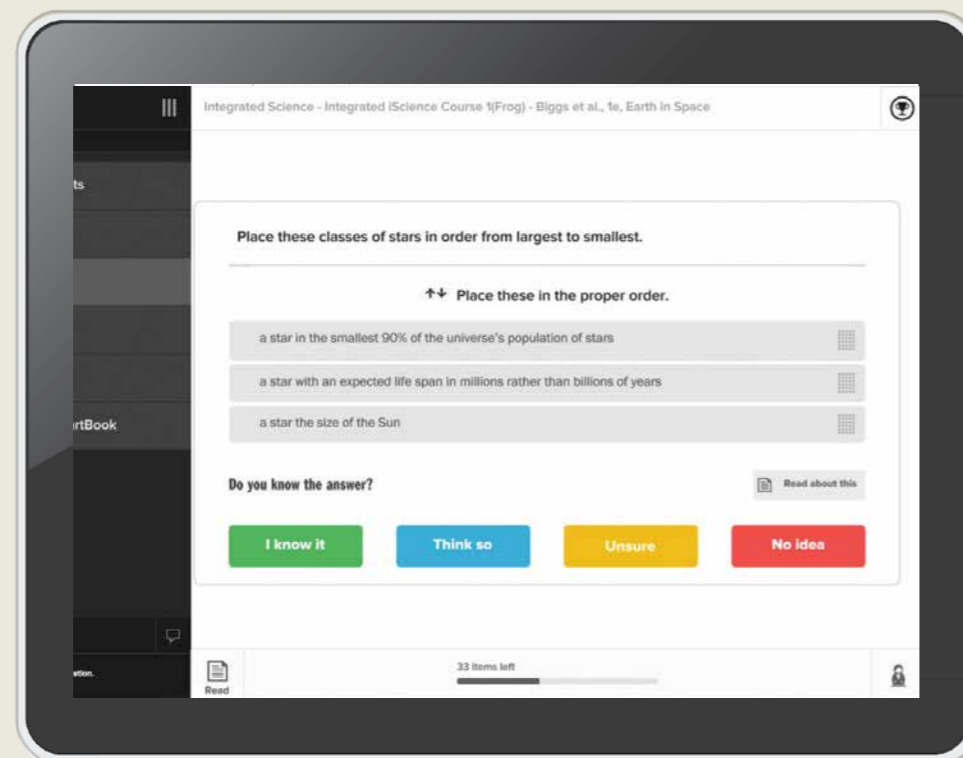
QuickStart online courses are part of your program's Professional Learning Environment. You can access them through ConnectED.



Study Smarter Using LEARNSMART® and Built-In SMARTBOOK®

LearnSmart® adaptive learning technology with an integrated SmartBook®, gives students the ultimate advantage to improve outcomes, personalize learning, increase retention, and provide data-informed instruction, accelerating achievement for every student, at every ability level.

Both dynamic and progressive, LearnSmart® ensures every minute a student spends studying is the most productive minute possible, adjusting class content to match student progress.



LearnSmart® continually pinpoints knowledge gaps to measure and monitor student's progress, helping students learn faster, study more efficiently, and retain content knowledge.

The friendly challenge format motivates learners, while continuously adapting to present students with content they are most ready to learn.

The LearnSmart® Reporting System offers teachers comprehensive review of each student's developing content mastery. Educators can access a broader scope of reports for a specific class or across several classes.

The LearnSmart® Reporting System delivers:

- Comprehensive data for individual student mastery gains and gaps.
- Real-time data insights available anytime, anywhere.

LearnSmart® with SmartBook® — the McGraw-Hill adaptive ebook — further enhances students' content recall. As students study, SmartBook® highlights core content that its user still needs to master. SmartBook® helps students identify concepts they need to spend additional time reviewing.





Grades 6–8

Designed for today's tech-savvy middle school students, the McGraw-Hill Education *iScience* program offers a balance of hands-on investigations, rigorous science content and engaging, real-world applications to make science fun, exciting and stimulating.



Transition to the new science standards with a curriculum that promotes inquiry and real-world problem solving with phenomena, hands-on activities and Project Based Learning activities (PBLs).

iScience is your complete solution for meeting the standards and supporting student-led learning.

INSPIRE students with meaningful, relevant learning experiences

INQUIRE into the key concepts of science through our 5E lesson structure

INTERACT with exciting digital tools that encourage students to practice science

INVENT new solutions and build 21st century skills through new engineering/design activities

Resources

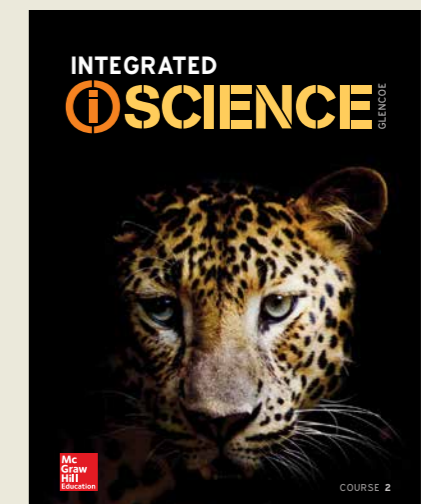
- **LearnSmart®** teaches adaptive and interactive strategies to help students learn faster and increase knowledge retention.
- **Project-Based Learning Activities (PBLs)** are embedded throughout the program, challenging your students to use the science they learn in class to solve real world problems.
- **Science and Engineering Practices Handbook** introduces field practices to students to support their scientific investigations and engineering projects.
- **ConnectED Student Center** engages students with interactive learning resources, assessments, communication tools and much more.
- **ConnectED Teacher Center** allows use of any device with an Internet connection to access your dashboard and increase your productivity with ready-made lessons and assessments, search features, a resource library and much more.
- **ConnectED Mobile App** allows you to update your classroom management anywhere at any time.
- **eAssessment** supports technology enhanced evaluations, online scoring and online reporting for digital and/or print distribution.
- **Professional Development** resources include timely, relevant information on new science standards, implementation methodologies and best practices, available 24/7.

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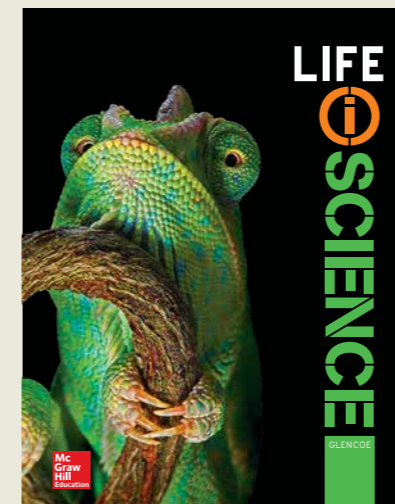
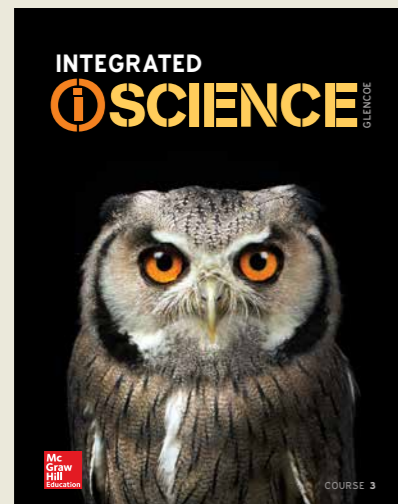
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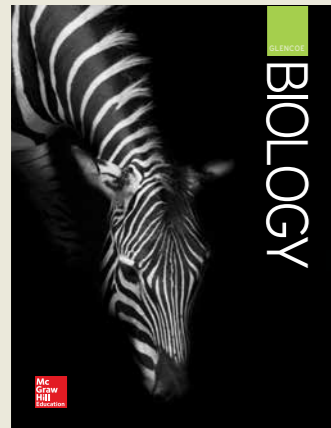
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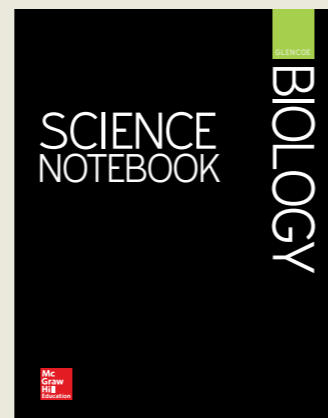
Grades 9–11

Biology engages students with dynamic content, lab experiences and a rich array of resources to ensure students understand the big ideas of biology.

- Increases student understanding using a “backwards” lesson design that frames lessons using essential questions derived from the big ideas of biology
- Builds 21st century skills through a variety of inquiry and problem-solving strategies while supporting the NGSS science and engineering practices
- Supports personalized learning and differentiation with powerful new tools
- Informs instruction through ongoing assessment with eAssessment and Learnsmart
- Encourages manageable inquiry with flexible and extensive lab options

Resources

- **ConnectED Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
- **ConnectED Teacher Center** allows the use of a broad range of devices with an Internet connection to access your dashboard and increase your productivity with ready-made lessons and assessments, search features, a resource library and much more.
- **Science and Engineering Practices Handbook** introduces practices to students that support their scientific investigations and engineering projects.
- **Science Notebook** is designed to provide meaningful interaction between the student and the big ideas of biology.
- **Reading Essentials** accommodates students with different reading levels to support the teaching of struggling readers.
- **LearnSmart®** is both adaptive and interactive to help students learn faster and increase their knowledge retention.
- **ConnectED Mobile App** provides 24/7 access to the ebook on your iPad or android tablet, allowing you to update your classroom management resources anywhere at any time.
- **eAssessment** supports many types of evaluations, including technology enhanced questions, online scoring and reporting for digital and/or print distribution.
- **Professional Development** resources are available 24/7, and include pertinent information on new science standards and the implementation of best practices.



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Science Notebook, Teacher Edition	978-0-07-896102-1
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TABLE OF CONTENTS

1. The Study of Life

Unit 1 Ecology

- Principles of Ecology
- Communities, Biomes, and Ecosystems
- Population Ecology
- Biodiversity and Conservation

Unit 2 The Cell

- Chemistry in Biology
- Cellular Structure and Function
- Cellular Energy
- Cellular Reproduction

Unit 3 Genetics

- Sexual Reproduction and Genetics
- Complex Inheritance and Human Heredity
- Molecular Genetics
- Genetics and Biotechnology

Unit 4 History of Biological Diversity

- The History of Life
- Evolution
- Primate Evolution
- Organizing Life's Diversity

Unit 5 Bacteria, Viruses, Protists, and Fungi

- Bacteria and Viruses
- Protists
- Fungi

Unit 6 Plants

- Introduction to Plants
- Plant Structure and Function
- Reproduction in Plants

Unit 7 Invertebrates

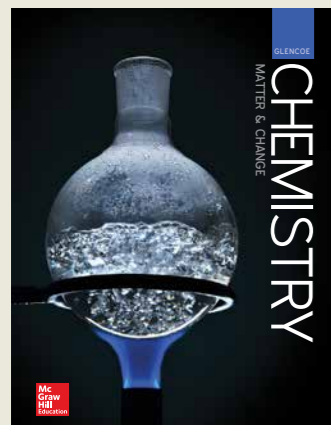
- Introduction to Animals
- Worms and Mollusks
- Arthropods
- Echinoderms and Invertebrate Chordates

Unit 8 Vertebrates

- Fishes and Amphibians
- Reptiles and Birds
- Mammals
- Animal Behavior

Unit 9 The Human Body

- Integumentary, Skeletal, and Muscular Systems
- Nervous System
- Circulatory, Respiratory, and Excretory Systems
- Digestive and Endocrine Systems
- Human reproduction and Development
- The Immune System



Grades 10–12

Attract, enlighten and engage your students with a program that helps them “bond” with chemistry.

- Offers a strong problem-solving strand with unique strategies and an enhanced “example problem” format that includes blue “coaching notes”
- Supports all your student differentiation needs with robust, built-in reading and math resources
- Provides highly interactive chemistry labs with virtual investigations
- Includes an exclusive tutorial guide with an online Personal Tutor for selected chemistry concepts on **ConnectED**
- Offers exclusive Dinah Zike Foldables, which provide a researchbased method of organizing information for effective study and retention of content.

Resources

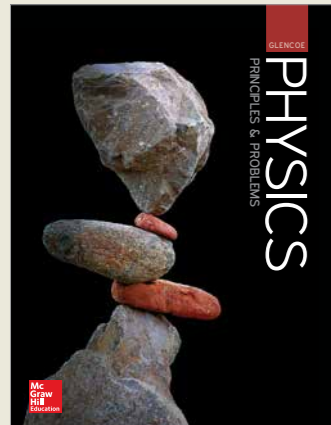
- **ConnectED Student Center** engages students with interactive learning resources, assessments, communication tools and so much more.
- **ConnectED Teacher Center** allows the use of a broad range of devices with an Internet connection to access your dashboard and increase your productivity with ready-made lessons and assessments, search features, a resource library and much more.
- **Science and Engineering Practices Handbook** introduces practices to students that support their scientific investigations and engineering projects.
- **Science Notebook** is designed to provide meaningful interaction between the student and the big ideas of chemistry.
- **Problem Solving Handbook** supports students with content review and additional problems and examples.
- **LearnSmart®** is both adaptive and interactive to help students learn faster and increase their knowledge retention.
- **ConnectED Mobile App** provides 24/7 access to the ebook on your iPad or android tablet, allowing you to update your classroom management resources anywhere at any time.
- **eAssessment** supports many types of evaluations, including technology enhanced questions, online scoring and reporting for digital and/or print distribution.
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Teacher Resources	
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TABLE OF CONTENTS

Chapters

1. Introduction to Chemistry
2. Analyzing Data
3. Matter – Properties and Changes
4. The Structure of the Atom
5. Electrons in Atoms
6. The Periodic Table and Periodic Law
7. Ionic Compounds and Metals
8. Covalent Bonding
9. Chemical Reactions
10. The Mole
11. Stoichiometry
12. States of Matter
13. Gases
14. Mixtures and Solutions
15. Energy and Chemical Change
16. Reaction Rates
17. Chemical Equilibrium
18. Acids and Bases
19. Redox Reactions
20. Electrochemistry
21. Hydrocarbons
22. Substituted Hydrocarbons and Their Reactions
23. The Chemistry of Life
24. Nuclear Chemistry



Grades 10–12

Physics balances a quantitative approach to physics concepts with easy-to-access content and real-world examples.

- Develops students' confidence with solid content that is easy to understand
- Builds problem-solving skills with comprehensive math support and modeling
- Transforms your classroom with digital and multimedia resources

Resources

- **ConnectED Student Center** engages students with interactive learning resources, assessments, communication tools and so much more.
- **ConnectED Teacher Center** allows the use of a broad range of devices with an Internet connection to access your dashboard and increase your productivity with ready-made lessons and assessments, search features, a resource library and much more.
- **Teacher Essentials** gives you only what you need in print: answers and strategies for differentiation
- **Science and Engineering Practices Handbook** introduces practices to students that support their scientific investigations and engineering projects.
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TABLE OF CONTENTS

Chapters

Mechanics

1. A Physics Toolkit
2. Representing Motion
3. Accelerated Motion
4. Forces in One Dimension
5. Displacement and Force in Two Dimensions
6. Motion in Two Dimensions
7. Gravitation
8. Rotational Motion
9. Momentum and Its Conservation

Energy

10. Work, Energy, and Machines
11. Energy and Its Conservation
12. Thermal Energy
13. States of Matter

Waves & Light

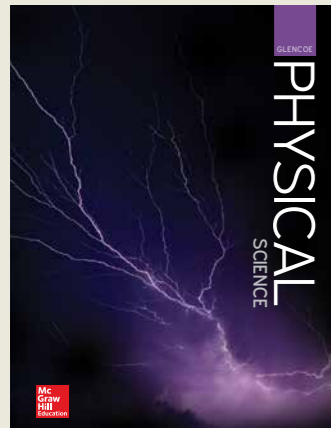
14. Vibrations and Waves
15. Sound
16. Fundamentals of Light
17. Reflection and Mirrors
18. Refraction and Lenses
19. Interference and Diffraction

Electricity and Magnetism

20. Static Electricity
21. Electric Fields
22. Electric Current
23. Series and Parallel Circuits
24. Magnetic Fields
25. Electromagnetic Induction
26. Electromagnetism

Subatomic Physics

27. Quantum Theory
28. The Atom
29. Solid-State Electronics
30. Nuclear and Particle Physics



Grades 9–11

Glencoe Physical Science comes alive with engaging, relevant explorations geared toward building an in-depth understanding of the big ideas of the physical world.

- Provides meaningful interaction with the big ideas of physical science
- Builds 21st century skills through a variety of inquiry and problem-solving strategies while supporting the NGSS science and engineering practices
- Supports personalized learning and differentiation with powerful new tools
- Informs instruction through ongoing assessment with eAssessment and LearnSmart®
- Encourages manageable inquiry with flexible and extensive lab options

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TABLE OF CONTENTS

Unit 1 Motion and Forces

1. The Nature of Science
2. Motion
3. Forces and Newton's Laws

Unit 2 Energy

4. Work and Energy
5. Thermal Energy
6. Electricity
7. Magnetism and Its Uses
8. Energy Sources and the Environment

Unit 3 Waves

9. Introduction to Waves
10. Sound
11. Electromagnetic Waves
12. Light
13. Mirrors and Lenses

Unit 4 Matter

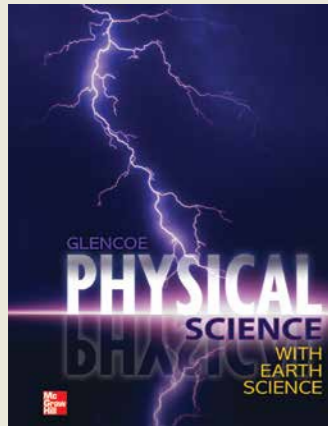
14. Solids, Liquids, and Gases
15. Classification of Matter
16. Properties of Atoms and the Periodic Table
17. Elements and Their Properties

Unit 5 Reactions

18. Chemical Bonds
19. Chemical Reactions
20. Radioactivity and Nuclear Reactions

Unit 6 Applications of Chemistry

21. Solutions
22. Acids, Bases, and Salts
23. Organic Compounds
24. New Materials Through Chemistry



Grades 9–11

Glencoe Physical Science comes alive with engaging, relevant explorations geared toward building an in-depth understanding of the big ideas of the physical world.

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TABLE OF CONTENTS

Unit 1 Motion and Forces

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2. Motion
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19. Chemical Reactions
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Unit 6 Applications of Chemistry

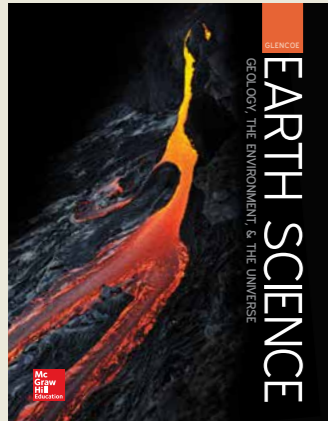
21. Solutions
22. Acids, Bases, and Salts
23. Organic Compounds
24. New Materials Through Chemistry

Unit 7 Applications of Chemistry

25. Earth's Internal Processes
26. Earth Materials
27. Earth's Changing Surface
28. Weather and Climate

Unit 8 Applications of Chemistry

29. The Earth-Moon-Sun System
30. The Solar System
31. Stars and Galaxies



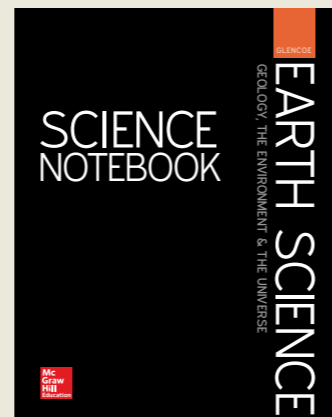
Grades 9–12

Glencoe Earth Science brings alive the forces that shape the world and engages students with relevant text, dynamic visuals and intriguing labs written by active classroom teachers.

- Increases student understanding using a “backwards” lesson design that frames lessons using essential questions derived from the big ideas of earth science
- Builds 21st century skills through a variety of inquiry and problem-solving strategies while supporting the NGSS science and engineering practices
- Supports personalized learning and differentiation with powerful new tools
- Informs instruction through ongoing assessment with eAssessment and Learnsmart
- Encourages manageable inquiry with flexible and extensive lab options

Resources

- **ConnectED Student Center** engages students with interactive learning resources, assessments, communication tools and so much more.
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Earth Science

1. The Nature of Science
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Composition of Earth

3. Matter and Change
4. Minerals
5. Igneous Rocks
6. Sedimentary and Metamorphic Rocks

Surface Processes on Earth

7. Weathering, Erosion, and Soil
8. Mass Movements, Wind, and Glaciers
9. Surface Water
10. Groundwater

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30. Galaxies and the Universe

CHEMISTRY: CONCEPTS AND APPLICATIONS

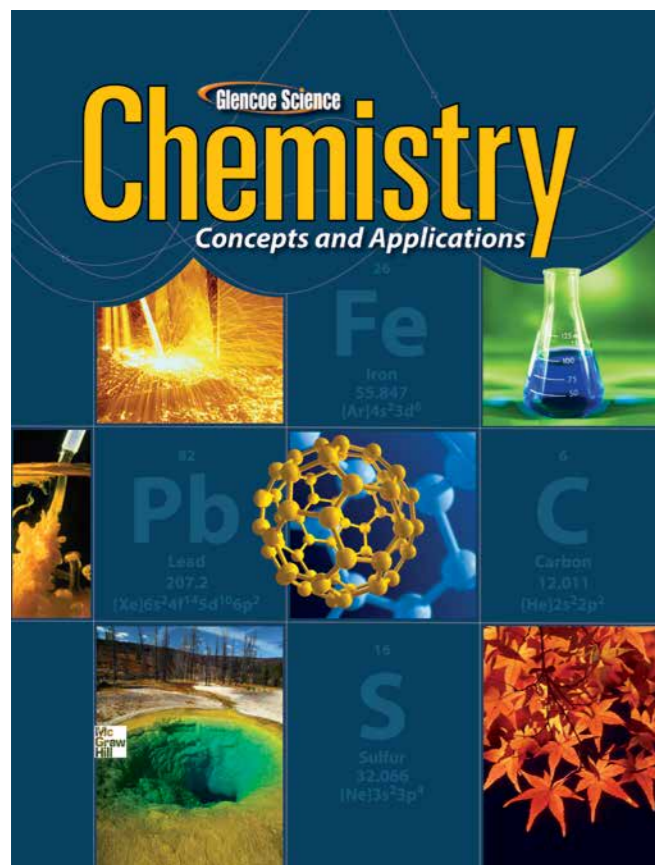
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This compelling conceptual presentation actively engages and excites students about chemistry.

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Resources

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TABLE OF CONTENTS

Contents in Brief

1. Chemistry: The Science of Matter
2. Matter is Made of Atoms
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4. Formation of Compounds
5. Types of Compounds
6. Chemical Equations and Reactions
7. Completing the Model of the Atom
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HOLE'S HUMAN ANATOMY & PHYSIOLOGY

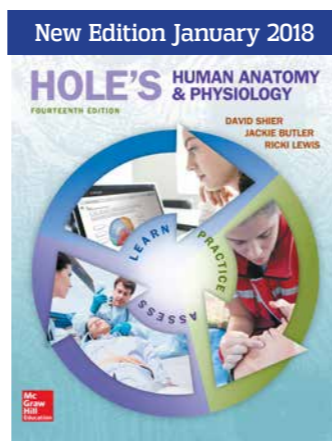
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Ideal for a Comprehensive Anatomy & Physiology Course

Hole's Human Anatomy & Physiology is our most in-depth anatomy and physiology text and is best suited for a comprehensive Anatomy and Physiology course. The new fifteenth edition places an emphasis on the fundamentals and continues to provide technology that offers students and teachers an incredible course solution. The new edition includes:

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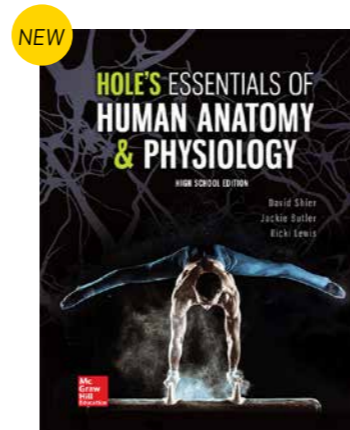
HOLE'S HUMAN ANATOMY & PHYSIOLOGY

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Hole's Essentials of Human Anatomy & Physiology, High School Edition is the first of its kind, combining the high quality content that you've come to expect from Hole's Essentials with a high-school specific design and additional content to help students succeed. This text is ideal for an introductory anatomy and physiology course. Activities in the high school edition allow students to apply science and engineering practices, work with real data, and provide support for ELL and ELA. This new program also includes:

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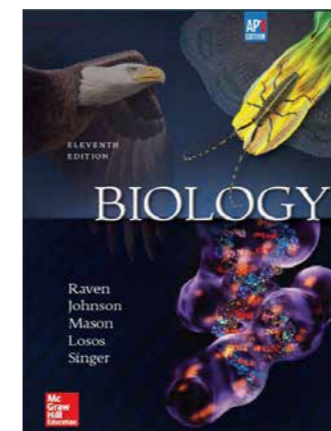
AP[®] advantage

The Comprehensive Solution for AP Biology Success

Biology, a more comprehensive text, is fully aligned to the College Board AP Curriculum Framework and offers additional content coverage to enhance the teaching and learning experience. The Biology learning system uses dynamic tools and chapter designations to differentiate AP essential knowledge from AP extended knowledge providing focus on key concepts, and context for supporting materials. Authored by a team of field experts, this inquiry-based approach text features:

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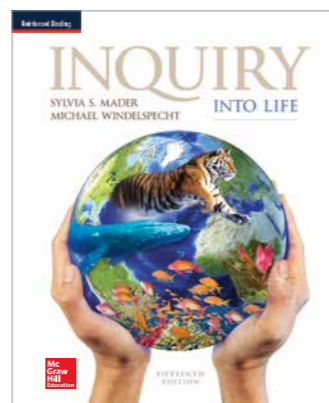
Mader Fifteenth Edition © 2017

Present Honors Biology from a Human Perspective

Inquiry into Life offers a unique approach to biology by explaining basic biological concepts and processes with a human emphasis, making biology relevant and understandable to students. Author Dr. Sylvia Mader's teaching system motivates students to understand and appreciate the wonders of biology. Coupled with a modern digital approach, this traditional learning system is designed to both engage and encourage today's student.

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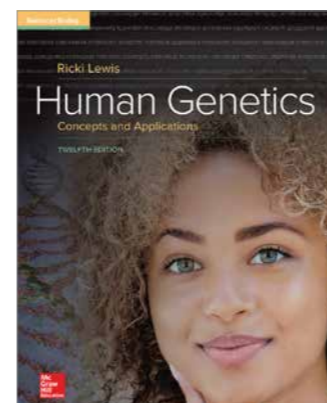
HUMAN GENETICS: CONCEPTS AND APPLICATIONS

Lewis Twelfth Edition © 2018

Explore the Science of Human Genetics

Illuminate the principles and concepts of the once obscure science of genetics with **Human Genetics: Concepts and Applications**. This new 12th edition is updated to reflect the evolution of genetics, presenting the study of genomic variation and heredity in organisms as the basis for medical science. Updated content empowers students with:

- Learning outcomes in each chapter that guide students through content mastery.
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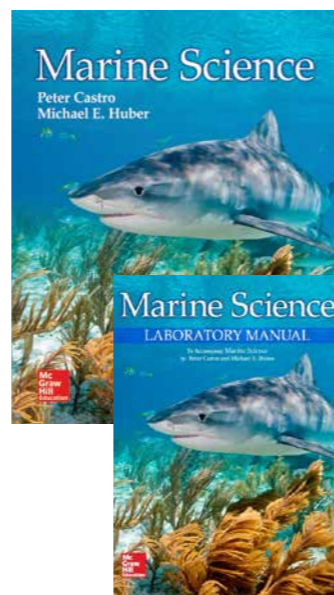
MARINE SCIENCE

Castro • Huber First Edition ©2016

Ideal for a Marine Science course

Adapted from the highly successful and respected *Marine Biology* text by Peter Castro Ph.D. and Michael Huber Ph.D., **Marine Science** broadens its coverage with the addition of three new oceanography chapters to help students better understand the oceans' physical aspects. This expanded content coupled with a stunning new design, learning system, updated features, data analysis labs, NEW lab manual, and comprehensive digital package make **Marine Science** the ideal fit for a marine science course.

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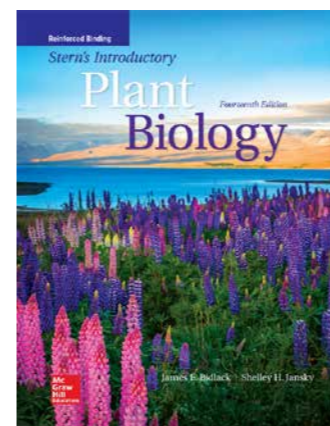
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STERN'S INTRODUCTORY PLANT BIOLOGY

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An Introduction to Botany

Stern's Introductory Plant Biology assumes little prior scientific knowledge on the part of the student. Stern emphasizes current interests while presenting basic botanical principles. Students will be introduced to the new classification of plants and plant-related species, integration of biotechnology into several chapters and inclusion of new text boxes addressing ecology, evolution, and molecular biology.



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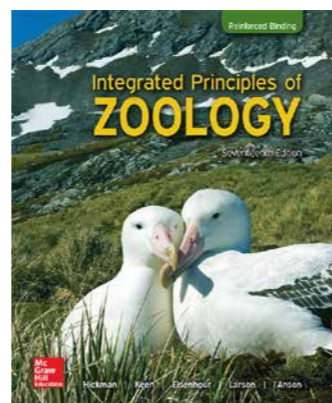
A Market Leader in Zoology

Emphasizing the central role of evolution in generating diversity, *Integrated Principles of Zoology* describes animal life and the fascinating adaptations that enable animals to inhabit so many ecological niches. Featuring high-quality illustrations and photographs set within an engaging narrative, *Integrated Principles of Zoology* is considered the standard by which other texts are measured. With its comprehensive coverage of biological and zoological principles, mechanisms of evolution, diversity, physiology, and ecology, this text is organized for easy access and is suitable as an introductory course.

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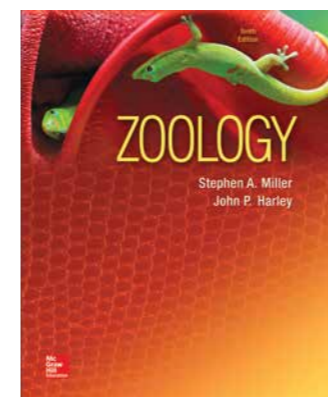
Ideal for an Introductory Zoology Course

Zoology offers students an introductory text that is manageable in size and adaptable to a variety of course formats. Featured in the tenth edition are Learning Outcomes and Learning Outcomes Review questions. Learning Outcomes help students identify and focus on the major concepts of each chapter. Learning Outcomes Review questions conclude each major concept to reinforce critical concepts students have just studied and include critical thinking questions that assess their understanding of those concepts.

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- A **SmartBook**®
- A **lab manual** correlated to the textbook for greater integration of labs into the course instruction

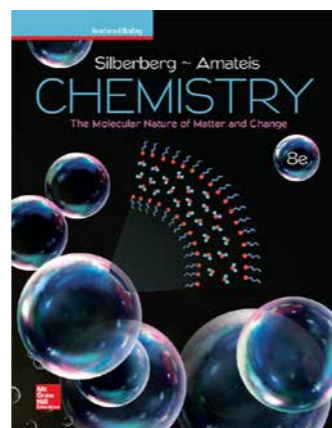
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A Conceptual Approach to AP Chemistry

Silberberg's Chemistry provides a 100% aligned conceptual option for AP Chemistry. The text contains unprecedented macroscopic-to-microscopic molecular illustrations, consistent step-by-step worked exercises in every chapter, and an extensive range of end-of-chapter problems. With a solid integration of STEM related fields, this text also features:

- An **updated AP Teacher Manual** is available with this edition. It provides a pacing guide as well as activities and questions aligned to the curriculum.
- **Updated AP Test Banks** that have been expanded to help students succeed on the AP Chemistry exam.
- **McGraw-Hill's Connect® Chemistry** incorporates new, exciting, and interactive tools – including LearnSmart and a SmartBook. Each chapter also has a bank of questions written and aligned to the new curriculum.



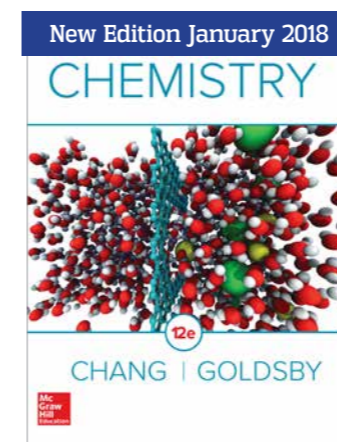
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A Traditional Approach to AP Chemistry

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- A new **AP Focus Review Guide** workbook, which helps students review and apply the essential AP content covered in each chapter.
- An **AP Teacher's Manual** that provides teaching strategies, suggested activities, and labs.
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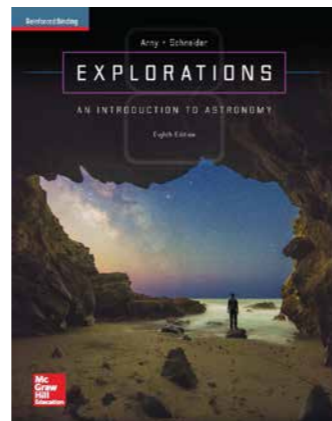
Army Eighth Edition © 2017

A Comprehensive Solution for an Introductory Astronomy Course

The eighth edition of **Explorations: An Introduction to Astronomy** shares with students a sense of wonder about the universe and the dynamic, ever-changing science of astronomy. The text is approachable and uses analogies and examples from the world around us to help students understand more complex content. New to this eighth edition is an updated, visually exciting art package that enhances student learning with clear, accurate representations that reflect the most current data in the field.

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ENVIRONMENTAL SCIENCE: A GLOBAL CONCERN

Cunningham Fourteenth Edition © 2018

A Global View of Environmental Science for AP Students

Our NEW AP Edition of **Environmental Science: A Global Concern** continues to emphasize critical thinking, environmental responsibility, and global awareness, but now includes additional features that emphasize its AP focus. AP Connections on the chapter openers pinpoint the AP topics and key concepts covered in the chapter as well as the location of Skills and Practice to prepare for the AP Exam. Additionally, the AP-style chapter assessments include a vocabulary review, multiple choice questions, and free-response questions. This edition also features *Data Analysis Lab* and *Use the Math* features to prepare students for the mathematical requirements of the AP exam.

Environmental Science also includes:

- **Data Analysis Lab** and **Use the Math** features to prepare students for the mathematical requirements of the AP exam.
- An **AP Teacher's Manual** that correlates each chapter to the APES Curriculum Framework as well as providing a pacing guide and useful activities.
- An **AP SmartBook**™ adaptive eBook that creates a personalized reading experience for each student.



AP advantage

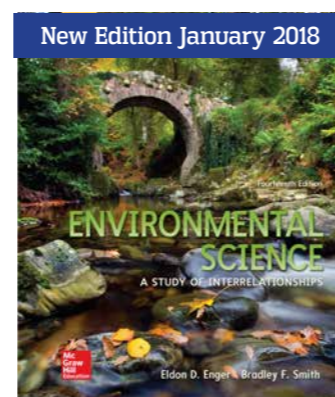
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ENVIRONMENTAL SCIENCE: A STUDY OF INTERRELATIONSHIPS

Enger • Smith Fifteenth Edition © 2019

A Concise and Conceptual View of Environmental Science for Honors Courses

Environmental Science: A Study of Interrelationships, a full-color, introductory environmental science text is known for being concise and conceptual. The approach and reading level cover the basic concepts without overloading students with too much detail. Also available with Environmental Science is an online learning system that contains *SmartBook™*, an adaptive eBook built on the *LearnSmart™* engine.



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