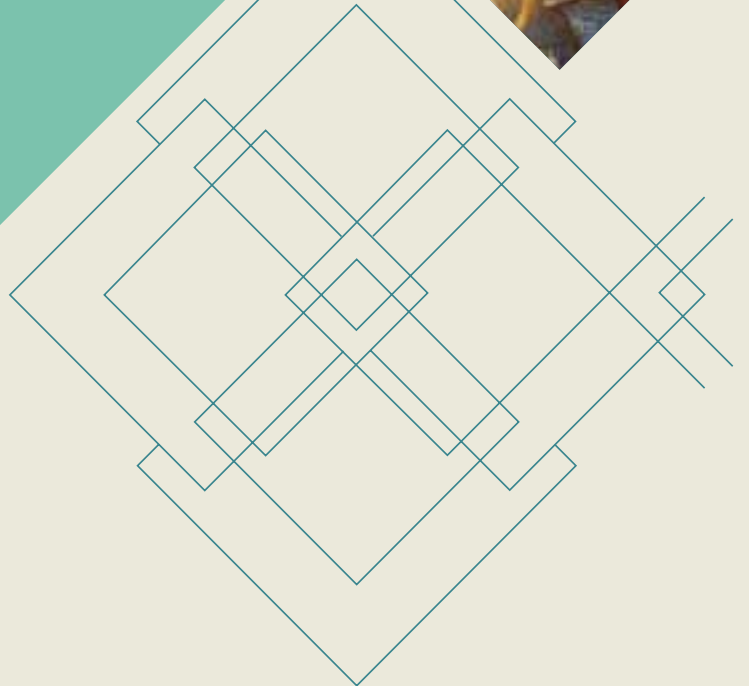




# SCIENCE



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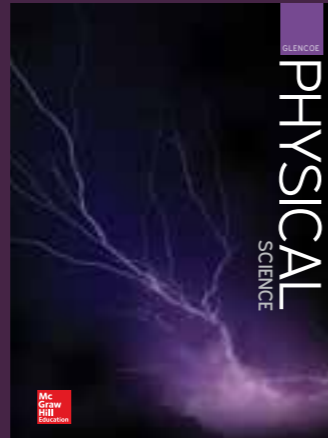
## Recommended for 2018



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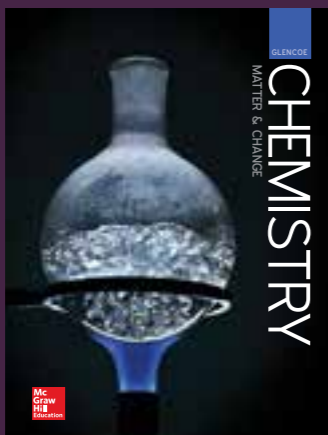
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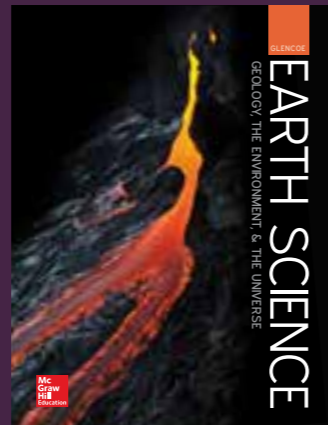
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Learning begins with curiosity. Inspire Science is designed to help you spark that curiosity in your students and inspire the next generation of innovators and inventors to ask more **WHYs**, think more critically, and become creative problem solvers.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



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**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.

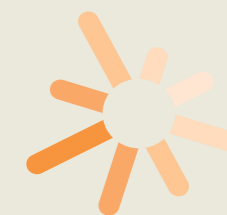


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- STEM, Cross Curricular Math and Literacy connections
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- Predicting & Evaluating Data
- Develop Inquiry Skills
- Plan & Conduct Investigations
- Apply Scientific knowledge to problem solve
- Lesson-planning 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")

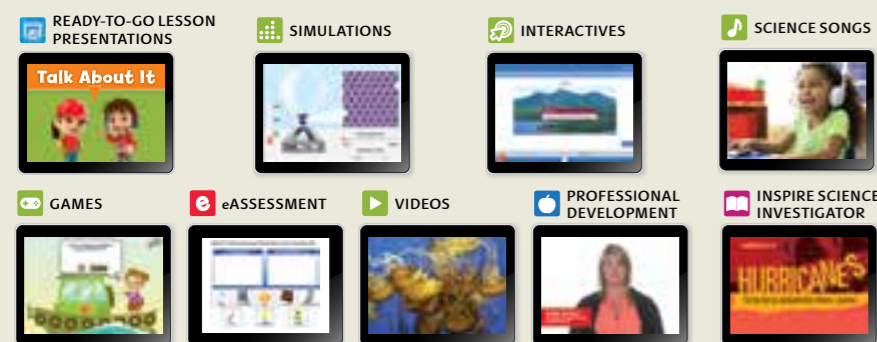
**Science and Engineering Practices**  
(for example, "Developing and Using Models")

**Crosscutting Concepts**  
(for example, "System and System Models")

# INSPIRE SCIENCE

www.mheducation.com.au/inspire-science

## Different Types of Online Resources



CHLOE  
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## Digital & Physical Component Price List

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

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

## Student Basic Bundles

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

<b>Grade K</b> 1-year subscription	978-0-07-679443-0
<b>Grade 1</b> 1-year subscription	978-0-07-679448-5
<b>Grade 2</b> 1-year subscription	978-0-07-679453-9
<b>Grade 3</b> 1-year subscription	978-0-07-679458-4
<b>Grade 4</b> 1-year subscription	978-0-07-679472-0
<b>Grade 5</b> 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)

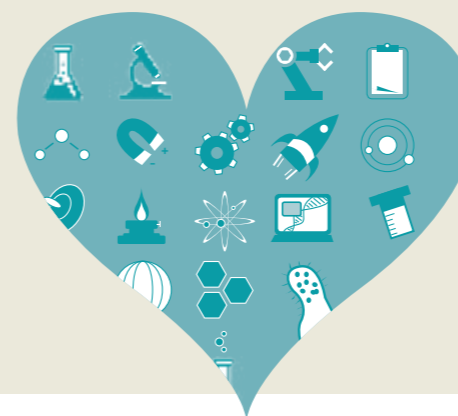
<b>Grade 3</b> 1-year subscription	978-0-07-679489-8
<b>Grade 4</b> 1-year subscription	978-0-07-679497-3
<b>Grade 5</b> 1-year subscription	978-0-07-679506-2

## Online Teacher Centers

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<b>Grade 1</b> 1-year subscription	978-0-02-135018-6
<b>Grade 2</b> 1-year subscription	978-0-02-133394-3
<b>Grade 3</b> 1-year subscription	978-0-02-134376-8
<b>Grade 4</b> 1-year subscription	978-0-02-135907-3
<b>Grade 5</b> 1-year subscription	978-0-02-134457-4

## Online Student Centers

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<b>Grade 3</b> 1-year subscription	978-0-02-135191-6
<b>Grade 4</b> 1-year subscription	978-0-02-133298-4
<b>Grade 5</b> 1-year subscription	978-0-02-137582-0

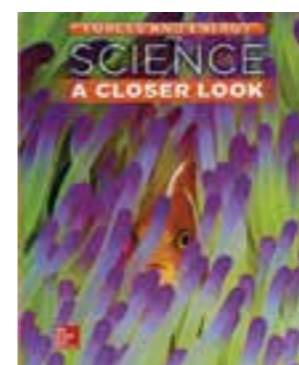


## Leveled Readers

<b>Leveled Reader Class Set</b>	
Grade K, 1 each of 48 books	978-0-07-665906-7
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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
<b>Leveled Reader Library</b>	
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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
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Grade 5, 1 each of 12 books	978-0-07-667668-2
<b>Spanish Leveled Reader Library</b>	
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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
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Spanish	978-0-07-667485-5
Grade 2	
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Spanish	978-0-07-667487-9
<b>Teacher Demonstration Kits</b>	
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Grade 2	978-0-07-898525-6
Grade 3	978-0-07-898526-3
Grade 4	978-0-07-898527-0
Grade 5	978-0-07-898528-7
<b>Small Group Kits</b>	
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Grade 1	978-0-07-898530-0
Grade 2	978-0-07-898531-7
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Earth and Its Resources	978-0-02-135618-8
Forces and Energy	978-0-02-135619-5
<b>Grade 5</b>	
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Forces and Energy	978-0-02-143809-9

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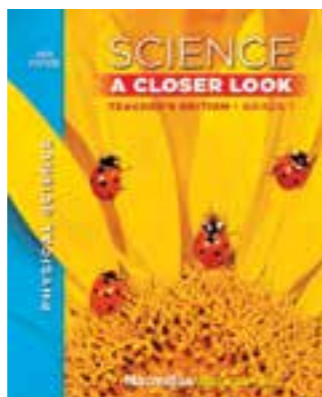
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*Henry E. Price, Supervisor of Art, Caddo Parish Public Schools, Shreveport, LA*

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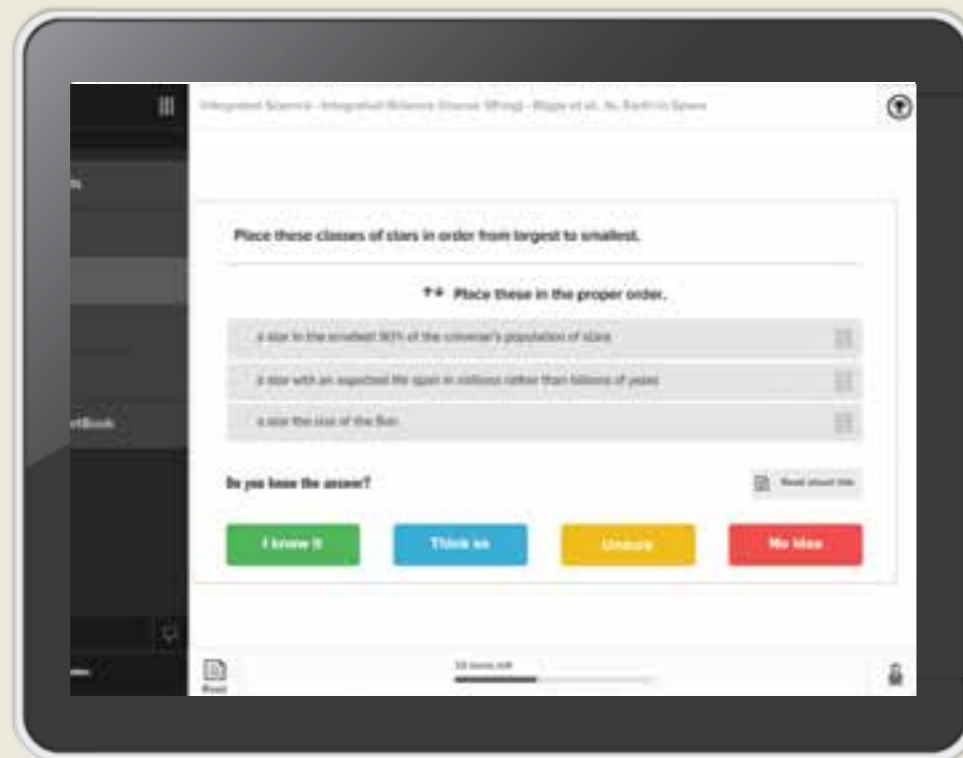
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Transition to the new science standards with a curriculum that promotes inquiry and real-world problem solving with phenomena, hands-on activities and Project Based Learning activities (PBLs).

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

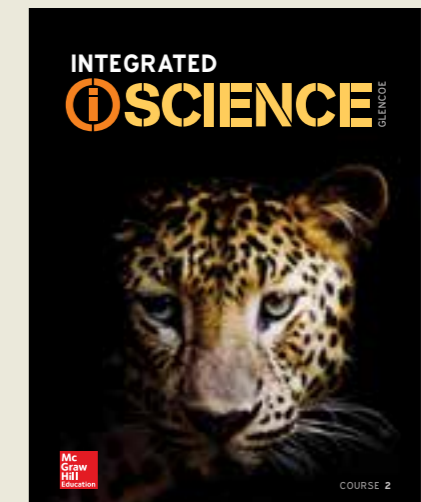
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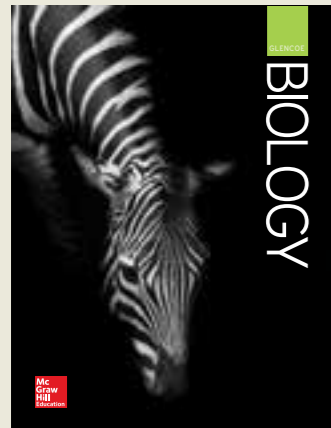
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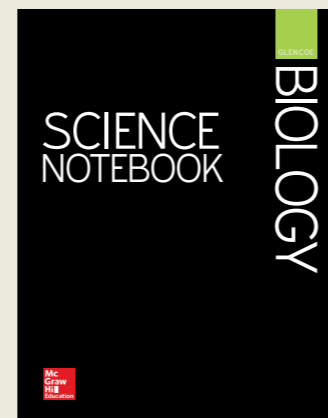
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Biology engages students with dynamic content, lab experiences and a rich array of resources to ensure students understand the big ideas of biology.

- 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

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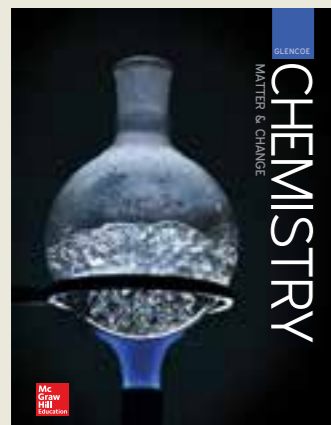
- Introduction to Animals
- Worms and Mollusks
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- Echinoderms and Invertebrate Chordates

#### Unit 8 Vertebrates

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- Reptiles and Birds
- Mammals
- Animal Behavior

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- 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

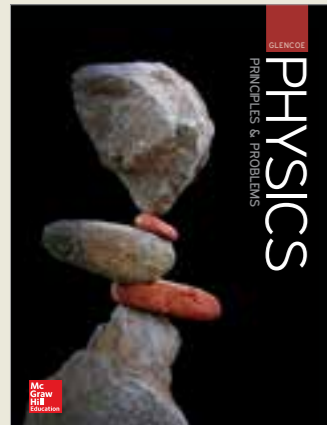
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22. Substituted Hydrocarbons and Their Reactions
23. The Chemistry of Life
24. Nuclear Chemistry



## 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

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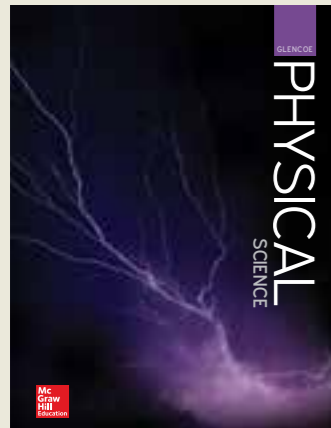
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### Grades 9–11

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 21<sup>st</sup> century skills through a variety of inquiry and problem-solving strategies while supporting the NGSS science and engineering practices
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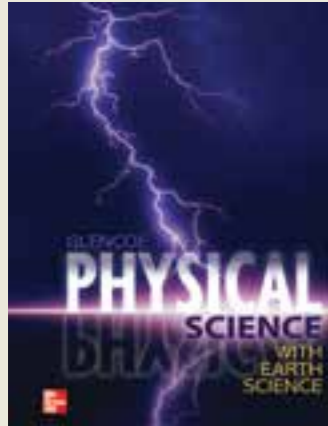
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#### Unit 6 Applications of Chemistry

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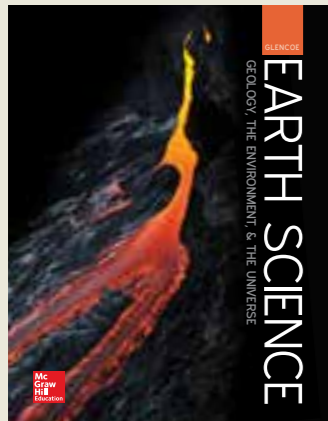
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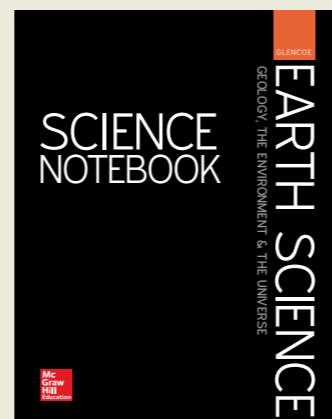
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Glencoe Earth Science brings alive the forces that shape the world and engages students with relevant text, dynamic visuals and intriguing labs written by active classroom teachers.

- Increases student understanding using a “backwards” lesson design that frames lessons using essential questions derived from the big ideas of earth science
- Builds 21<sup>st</sup> 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
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### Beyond Earth

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29. Stars
30. Galaxies and the Universe

## CHEMISTRY: CONCEPTS AND APPLICATIONS

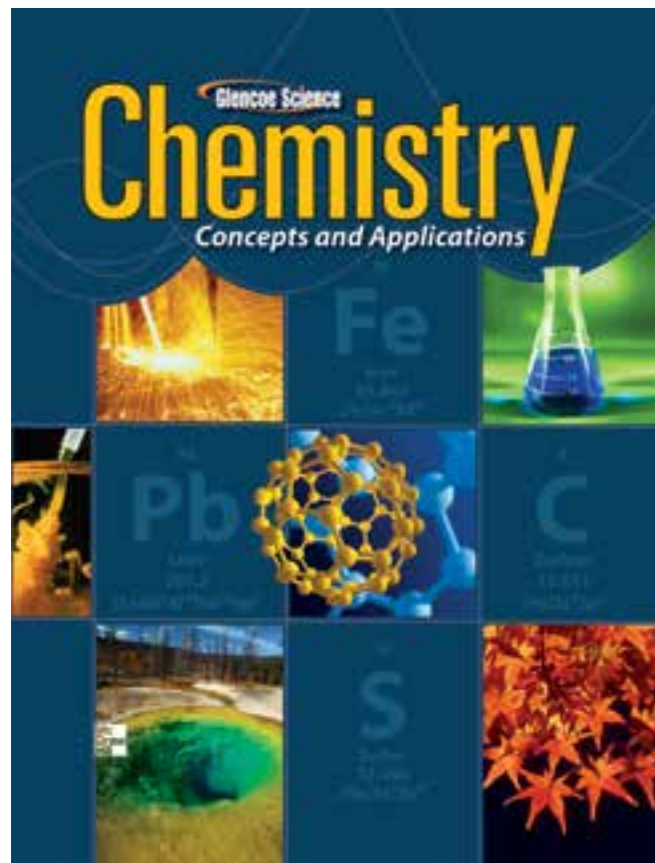
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## CHEMISTRY: CONCEPTS AND APPLICATIONS

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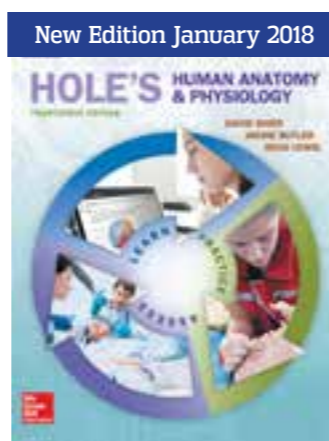
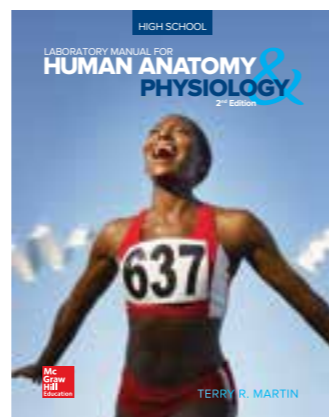
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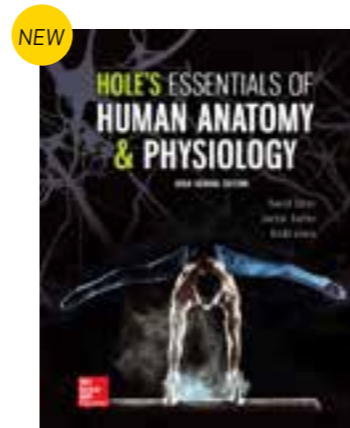
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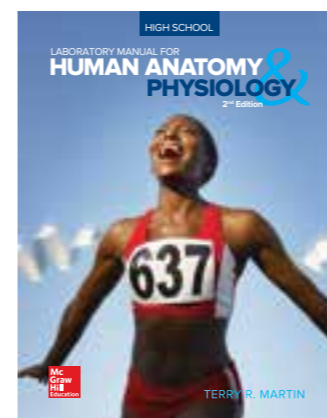
## Designed Specifically for your High School Classroom

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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- Big Ideas and science practices introduced in Chapter 1.
- AP Focus Review Guide workbook which helps students review and apply the AP essential content covered in each chapter.
- An AP Teacher Manual which provides teaching strategies, suggested activities, and labs.
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## INQUIRY INTO LIFE

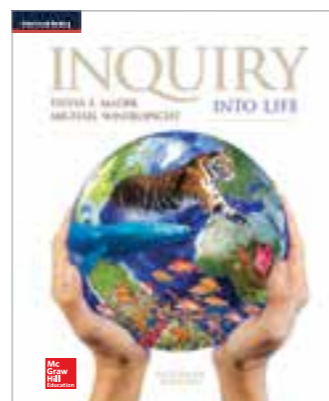
Mader Fifteenth Edition © 2017

### 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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- Learning outcomes in each chapter that guide students through content mastery.
- The Big Picture which encapsulates the overall theme of each chapter.
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- **Connect** with SmartBook®, Inquiry Activities, and Chapter Banks correlated to the Ocean Literacy Standards
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- A robust **Teacher's Manual** with a detailed pacing guide, chapter summaries, Key Question & Vocabulary Activities, and Chapter Projects



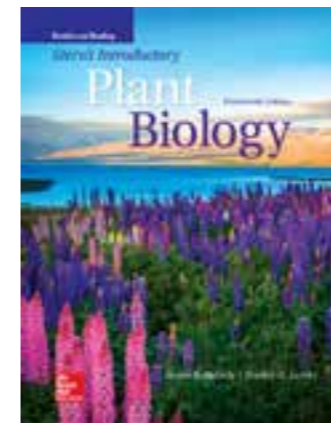
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## STERN'S INTRODUCTORY PLANT BIOLOGY

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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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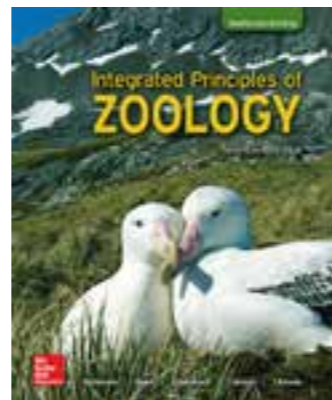
### A Market Leader in Zoology

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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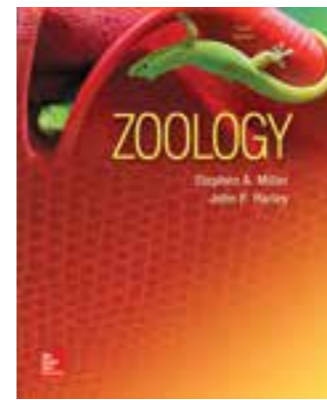
### Ideal for an Introductory Zoology Course

*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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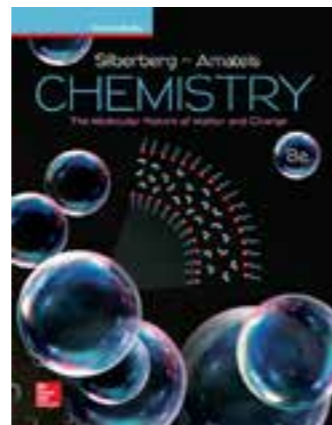
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### A Conceptual Approach to AP Chemistry

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.



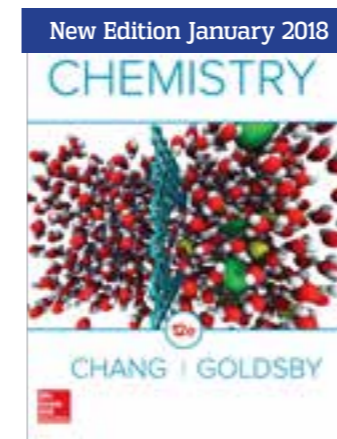
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### A Traditional Approach to AP Chemistry

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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.
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# ASTRONOMY

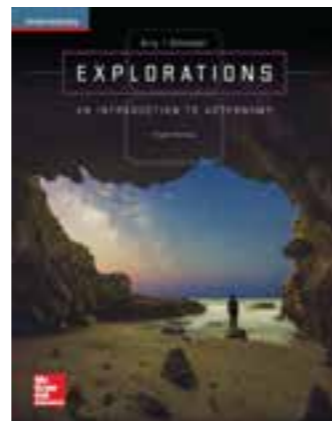
Army Eighth Edition © 2017

## 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

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Environmental Science also includes:

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Enger • Smith Fifteenth Edition © 2019

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