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.

*LearnSmart*® with *SmartBook*® determines precisely which learning objectives a student has grasped and which ones he or she is struggling with, then highlights the most critical content for that student to read at that moment. When knowledge gaps are identified, *LearnSmart* provides the learning resources students need to build content retention.

*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.
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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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- 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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1. The Nature of Science
2. Motion
3. Forces and Newton’s Laws

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Unit 3 Waves
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29. The Earth-Moon-Sun System
30. The Solar System
31. Stars and Galaxies
GLENCOE EARTH SCIENCE: GEOLOGY, THE ENVIRONMENT, AND THE UNIVERSE ©2017

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.

Built by teachers for teachers, *Glencoe Earth Science: Geology, the Environment, and the Universe* gives you flexibility and support for managing the unique needs of your students. Whether you’re looking for a textbook-based program, a fully digital curriculum, or something in between, *Glencoe Earth Science: Geology, the Environment, and the Universe* gives you the resources to bring the wonders of our world down to earth.

- 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 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 earth science.
- **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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Earth Science
1. The Nature of Science
2. Mapping Our World

Composition of Earth
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4. Minerals
5. Igneous Rocks
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7. Weathering, Erosion, and Soil
8. Mass Movements, Wind, and Glaciers
9. Surface Water
10. Groundwater

The Atmosphere and the Oceans
11. Atmosphere
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14. Climate
15. Earth’s Oceans
16. The Marine Environment

The Dynamic Earth
17. Plate Tectonics
18. Volcanism
19. Earthquakes
20. Mountain Building

Geologic Time
21. Fossils and the Rock Record
22. The Precambrian Earth
23. The Paleozoic, Mesozoic, and Cenozoic Eras

Resources and the Environment
24. Earth Resources
25. Energy Resources
26. Human Impact on Resources

Beyond Earth
27. The Sun-Earth-Moon System
28. Our Solar System
29. Stars
30. Galaxies and the Universe
A Pathway to Success for Today’s AP® Students

The McGraw-Hill AP advantage helps students navigate through the rigors of AP level coursework with accessible, engaging, and 100% aligned resources designed specifically for today’s students.

From pre-course skill mastery, through comprehensive core curriculum, and targeted, adaptive test prep, the AP advantage tailors the learning experience to your students’ diverse needs and learning styles.

Prepare your students to approach course content, think critically, make clear connections, and effectively apply their understanding with:

- Self-paced, adaptive AP course prep
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AP advantage

Are they ready? Provide personalized, adaptive resources. Study smarter, not harder!

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With ONboard, students build a strong foundation of background knowledge and skill mastery before class begins. Perfect as a summer assignment, ONboard features a series of interactive, online modules to ensure students are ready to approach their core curriculum on day one.

**STEP 2**

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**core**

Paired with your AP text, this robust online teaching and learning platform extends in-class instruction, assignments, and assessments with interactive, engaging pedagogy tied to the text. Powerful reporting tools and customizable content help teachers adjust in-class instruction and deliver targeted support for each student.

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SCOREboard is a one-of-a-kind resource that delivers personalized, targeted test prep to ensure student understanding and application of core concepts. AP-style practice tests that match the question type, timing, and scoring of the actual AP Exam help to build students’ proficiency and confidence as they prepare for AP Exam success.

Teaching and learning resources exclusive to the AP advantage include:

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- AP Teacher Manual including a pacing guide, activities, and support aligned to course objectives
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- Adaptive practice with targeted remediation in areas of weakness
- In-depth reports - including frequently missed questions, most challenging learning objectives, and current learning statistics - to help students focus on the areas with which they need the most help
- Four complete, auto-graded AP practice exams
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:

- A new art program with brighter colors and enhanced 3D effects.
- A online Teacher Manual that includes student answers and ELL activities.
- A new Lab Manual with 34 hands-on activities designed to complement any Anatomy and Physiology course.

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Access to the Online Student Edition includes access to a SmartBook™ adaptive eBook and additional digital teaching and learning resources.

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:

- A new High School Teacher’s Manual with teaching strategies and pacing, group projects, classroom activities, and ELL and ELA support activities.
- A new Lab Manual with 34 hands-on activities designed to complement any Anatomy and Physiology course.

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AP Biology

Biology

Thirteenth Edition © 2019
Mader

New Edition January 2018

AP advantage

A Traditional, Accessible Approach to AP Biology

Inquiry-based learning, full coverage of the College Board’s AP Curriculum Framework, and an engaging, easy to understand writing style provide students with the concise instruction, practice, and support they need to succeed in the AP Biology course. Mader’s Biology also offers:

• 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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For a list of the complete AP Core digital resources, see the AP advantage page at the front of this catalog.

Biology

Eleventh Edition © 2017
Raven

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:

• A new Focus Review Guide workbook, which helps students review and apply the essential AP content covered in each chapter.
• AP Biology Chapter Banks for practice answering AP-style questions.

AP advantage Print and Digital Bundle (Student Edition with ONboard™, Online Student Edition, SCOREboard™)
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AP advantage Deluxe Print and Digital Bundle (Student Edition with AP Focus Review Guide, ONboard™, Online Student Edition, SCOREboard™)
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AP advantage Digital Student Subscription (ONboard™, Online Student Edition, SCOREboard™)
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1-year 978-0-07-903214-8 147.92

For a list of the complete AP Core digital resources, see the AP advantage page at the front of this catalog.
Honors Biology
*Inquiry Into Life*
Fifteenth Edition © 2017
Mader

**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. This edition offers:

- **Connect®** with auto-gradable and interactive assessment material tied to learning outcomes
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**Standard Student Bundle (Student Edition with Connect®)**

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Electives Biology
*Human Genetics: Concepts and Applications*
Twelfth Edition © 2018
Lewis

**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.
- The Big Picture which encapsulates the overall theme of each chapter.
- Captivating photography and vibrant, dimensional illustrations.
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Access to the Online Student Edition includes access to a SmartBook™ adaptive eBook and additional digital teaching and learning resources.
Electives Biology

Marine Science
First Edition ©2016
Castro • Huber

An Interconnected, Global Perspective of the World Ocean

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, and data analysis labs make Marine Science the ideal fit for a marine science course. Marine Science also includes:

- Inquiry Activities, and Chapter Banks correlated to the Ocean Literacy Standards
- NEW Marine Science Lab Manual with 34 labs that do not require ocean access
- A robust Teacher’s Manual with a detailed pacing guide, chapter summaries, Key Question & Vocabulary Activities, and Chapter Projects

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Online Teacher Subscription
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Stern’s Introductory Plant Biology
Fourteenth Edition © 2018
Bidlack

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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Zoology

Integrated Principles of Zoology
Seventeenth Edition © 2017
Hickman

The Comprehensive 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. This edition also includes:

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• A SmartBook® adaptive eBook that creates a personalized reading experience for each student

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Zoology

Tenth Edition © 2016
Miller

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.

This edition offers:

• Connect® with auto-gradable and interactive assessment material tied to learning outcomes
• A SmartBook®
• A lab manual correlated to the textbook for greater integration of labs into the course instruction

Standard Student Bundle (Student Edition with Connect®)
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Connect® includes access to a SmartBook™ adaptive eBook and additional digital teaching and learning resources.
### AP® Chemistry

**Chemistry: The Molecular Nature of Matter and Change**

Eighth Edition © 2018
Silberberg

**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 that 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.
- A SmartBook™ adaptive eBook that creates a personalized reading experience for each student.

For a list of the complete AP Core digital resources, see the AP advantage page at the front of this catalog.

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### Chemistry

**Thirteenth Edition © 2019**

Chang

**A Traditional Approach to AP Chemistry**

The straightforward, clear writing style and proven problem-solving strategies make Chang’s *Chemistry* a favorite of teachers and students. Chapter-opening Essential Questions guide students in pinpointing essential AP content, including the Big Ideas they will study in the chapter. *Chemistry* is 100% aligned to the AP framework and includes:

- 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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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. 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.

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1-year ............................................ 978-0-07-903327-7 ........ 109.29

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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.

This edition also offers:

- Connect® with auto-gradable and interactive assessment material tied to learning outcomes.
- A SmartBook™ adaptive eBook that creates a personalized reading experience for each student.
- An Online Lab Manual that includes two activities per chapter with student worksheets and a Teacher Guide.

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