AP®, HONORS & ELECTIVES 2018

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"I think the way all the tools work together is what gave us our home run on the AP Exams. With the AP advantage in the mix, we moved everybody up."
– Dean Gordon Massengill, Wilmington, NC
Dynamic teaching and learning resources exclusive to the AP advantage

- **AP SmartBook**, powered by LearnSmart®, delivering adaptive reading experiences to meet each student’s unique needs and learning styles
- AP Test Banks that provide AP exam practice all year long
- AP Teacher Manual including a pacing guide, activities, and support aligned to course objectives
- Customizable PowerPoint presentations
- At-a-glance reports that track student and section performance
- 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

Multi-year access to the AP advantage is provided with the purchase of your McGraw-Hill Education AP Edition textbook or can be purchased as a 1-year or 6-year digital-only subscription. This offer does not include honors, electives, or High School editions. Look for the AP advantage logo to find the programs that include the AP advantage solutions.
Harness Technology, Unlock Success

Every student’s learning journey is different. Today’s learners need instruction, practice, and support that is personalized, adaptive, and powerful. McGraw-Hill Education is a learning science company that is driven by a vision to help unlock the full potential of each student and propel them on a path toward success while supporting educators with time-saving, data-driven, and flexible tools to help focus instruction. Our digital solutions deliver dynamic, individualized experiences that ignite the spark between teaching and learning to get every student on the right track to achieve their academic goals.

The Science of Learning Meets the Art of Teaching

- One destination for all course content, assignments and assessments
- Customizable assignment and quiz banks
- Deep insights into student performance
- Targeted recommendations that guide students to improve
- Adaptive learning features that engage and personalize each student’s experience
- Teacher time-savers
- Features proven to help boost retention, raise grades and increase engagement

“The intuitive teacher resources have greatly reduced my grading and planning time and the reports we generate from the courses are essential to improving student performance.”

– Lori Redmond, AP Teacher, Lexington, NC

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High-Impact Study Sessions Focused on Individual Needs

*SmartBook*, powered by LearnSmart, is an online interactive, adaptive study tool that assesses a student’s proficiency and knowledge, tracks which topics have been mastered, identifies areas that need more study, and presents focused content specific to the student’s individual needs.

- **4.9 Million Users**
- **3.3 Billion Questions Answered**

The personalized learning path is based on student responses to questions, as well as their confidence about the answers they provide.

Improves reading comprehension by highlighting the key content and any concepts that need additional study, focusing students on what is most important to learn.

Students can monitor their progress through a variety of reports including most missed questions and self assessments that help them focus on areas of weakness and get personalized, targeted remediation that builds mastery and confidence.

Teacher Reports provide invaluable information about student and class performance, tracking time, grades, and progress, making it easy to identify which students are struggling and where they need immediate help.

Available for titles offered as a Standard Student Bundle, Premium Student Bundle, Online Student Edition or Online Teacher Edition as listed. For digital access to titles listed as Student Edition only, please see page 36 for Custom-built solution purchasing options.

**Mobile Ready**

Access to select titles on the go is easier and more effective than ever before with the ReadAnywhere mobile app.
Stay on Track to College & Career Readiness

Ensure students develop the academic and real-world skills and knowledge they need to make the successful transition from high school to college and/or into the workforce. Provide meaningful experiences at every proficiency level with purposeful lessons, extensive practice, and a variety of opportunities for concept mastery to lead them to success in college and beyond.

Find the right solutions from core skills remediation to enrichment, for bridge courses and summer boot camps, through Honors and AP courses to ensure students are on the college and career readiness track.

Build a Solid Foundation

Developmental Education

- Grammar and Mechanics from Sentence to Paragraph
- Problem-Solving Approach to College Writing
- College Readiness Literacy

Develop Higher-Level Skills & Knowledge

Honors & Electives

- A Concise and Conceptual View of Environmental Science for Honors Courses
- Simplify Honors Algebra with the Miller Math Series
- Designed Specifically for your High School Classroom

Engage with College-Level Content

Advanced Placement

- A Traditional Approach with a Fresh, New Look
- An Engaging, Balanced Approach Fully Aligned for the Course Redesign
- Developed Exclusively for the Needs of AP Teachers and Students
- Tried and True Favorite, Streamlined for the AP Curriculum
- Trusted, Accessible Content with New Coverage and Features for Today’s AP Classroom

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medium.com/inspired-ideas-prek-12

Advanced Placement Summer Institutes: McGraw-Hill Education understands the importance of Professional Development opportunities and continues to support AP Summer Institutes. For more information, visit mheonline.com/apsi
Trusted, Accessible Content with New Coverage and Features for Today’s AP Classroom

Students explore AP Biology through an inquiry-based lens as they discover the unity and interconnected nature of the study of life. Author Sylvia Mader blends her iconic field expertise with a clear, easy to understand writing style to provide students with concise and engaging instruction, practice, and support for AP success. The stunning illustrative artwork and photo presentations add visual interest and powerful pedagogical tools to support and enhance key concepts. Mader Biology is fully aligned to the College Board’s AP Curriculum Framework with integrated AP coverage and additional features including:

- An introduction to the AP Big Ideas and science practices in Chapter 1.
- AP chapter reviews that feature AP-style questions and grid-in questions where applicable.
- A wealth of data analysis activities that require students to apply the science practices.
- A Focus Review Guide workbook to apply and review the AP content covered in each chapter.
- AP Test Banks, featuring AP-style questions to help students prepare for the AP exam.
- AP Teacher Manual with helpful hints to support teachers throughout the course, as well as a pacing guide, classroom activities, and answers to the student edition chapter assessments.
- Featured readings to reflect recent scientific advances.

AP ADVANTAGE PRINT AND DIGITAL BUNDLE
(Student Edition with ONboard,™ Online Student Edition, SCOREboard™)
6-years ............................................ 978-0-07-903170-9 .................... $154.08
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1-year .............................................. 978-0-07-903180-8 .................... $165.84

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1-year .............................................. 978-0-07-903209-6 .................... $150.00

AP advantage access includes an AP SmartBook, interactive eBook, AP Test Banks, an AP Teacher Manual, and more teaching and learning resources. For more information, see page 2.

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The Comprehensive Solution for AP Biology Success

*Biology* 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 text also features:

- AP Big Ideas and science practices introduced in Chapter 1.
- A 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.
- A robust AP Teacher’s Manual with a detailed pacing guide, chapter summaries, answers to student edition chapter assessments, suggested activities, and labs.

### AP Advantage Print and Digital Bundle
(Student Edition with ONboard™, Online Student Edition, SCOREboard™)

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### AP Advantage Digital Student Subscription
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<td>1-year</td>
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AP advantage access includes an AP SmartBook, interactive eBook, AP Test Banks, an AP Teacher Manual, and more teaching and learning resources. For more information, see page 2.
NEW! **Understanding Biology**

2nd Edition © 2018

*Mason*

**AP Biology Program Focused on the Fundamentals**

*Understanding Biology* emphasizes fundamental concepts to help students better understand biology and focus on developing scientific skills.

- Learning outcomes help students understand core skills and concepts they should develop.
- Inquiry and Analysis cases help students build scientific skills.
- End of chapter assessments ensure students grasp core concepts and can critically analyze and apply what they’ve learned.

**STUDENT EDITION (HARDCOVER)**

978-1-25-959241-6

Contact your rep for pricing

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NEW! **Principles of Biology**

2nd Edition © 2018

*Brooker*

**AP Biology**

**Succinct, Inviting, Focused on Central Concepts**

*Principles of Biology* is reflective of the shift taking place in the biology course from large and detail-rich to short and conceptual.

- Succinct, inviting, and focused on central concepts
- Helps students connect fundamental principles
- Fosters the development of critical thinking skills
- Streamlined to help students connect broad themes and key ideas

**STUDENT EDITION (SOFTCOVER)**

978-1-25-987512-0

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NEW! **Inquiry into Life**

15th Edition © 2017

*Mader*

**For Honors Biology**

**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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NEW! **Foundations in Microbiology**

10th Edition © 2018

*Talaro*

**For Microbiology**

**Allied Health Microbiology**

*Foundations in Microbiology* features:

- A taxonomic approach to the disease chapters.
- An engaging and accessible writing style.
- Case studies and analogies to help explain difficult concepts.
- Revised art and updated photos to help concepts stand out.

**STUDENT EDITION (HARDCOVER)**

978-1-25-970521-2

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The Gold Standard Approach to Anatomy & Physiology

A market leader for 40 years, Hole’s Human Anatomy and Physiology delivers a comprehensive, in-depth exploration of anatomy and physiology while placing emphasis on the fundamentals for students with little-to-no prior knowledge. The proven Learn, Practice, Assess learning system ensures student understanding, application, and mastery of complex concepts while the Understanding Words feature builds a solid anatomy and physiology vocabulary. The accessible, engaging, and relevant coverage integrates real-world issues, clinical applications, and the latest in scientific advances. Additional teaching and learning features include:

- A new, dynamic art program with bright colors and 3D effects to reinforce important concepts.
- The chapter level Career Corner that introduces students to a variety of fields of practice and related occupations.
- A new Lab Manual with 34 hands-on activities designed to complement any anatomy and physiology course.

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 new student-friendly design containing additional content to help students succeed. 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.
- Comprehensive digital resources, including labeling activities to allow students to identify structures using figures from the text, and interactive flashcards with audio to help students review key vocabulary terms from each chapter.

All purchasing options include access to the Online Student Edition, which includes a SmartBook adaptive ebook and additional teaching and learning resources.
NEW!

Human Genetics
12th 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.

**STUDENT BUNDLE**
(Student Edition with Online Student Edition)
- 6-years ..............................................978-0-07-683566-9 .................$163.95
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**ONLINE STUDENT EDITION SUBSCRIPTION**
- 6-years ..............................................978-0-07-683859-2 ...............$161.55
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**ONLINE TEACHER EDITION SUBSCRIPTION**
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- 1-year ..............................................978-0-07-683860-8 ...............$150.00

All purchasing options include access to the Online Student Edition, which includes a SmartBook adaptive ebook and additional teaching and learning resources.

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Zoology
Miller

**Ideal for an Introductory Zoology Course**
Zoology emphasizes ecological and evolutionary concepts and helps students understand the process of science through elements of chapter organization and boxed readings.
- The ecological perspective of zoology is stressed throughout the text.
- Includes updated human population and endangered species statistics.
- Coverage of ecological problems, including an assessment of eight critical environmental processes: biodiversity loss, nitrogen cycling, phosphorus cycling, climate change, ocean acidification, land and freshwater use, and ozone depletion.

**STUDENT BUNDLE**
(Student Edition with Online Student Edition)
- 6-years ..............................................978-0-07-903356-7 ...............$150.00
- 1-year ..............................................978-0-07-903367-3 ...............$106.05

**ONLINE STUDENT EDITION SUBSCRIPTION**
- 6-years ..............................................978-0-07-903368-0 ...............$118.41
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**ONLINE TEACHER EDITION SUBSCRIPTION**
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- 1-year ..............................................978-0-07-903356-7 ...............$150.00

All purchasing options include access to the Online Student Edition, which includes a SmartBook adaptive ebook and additional teaching and learning resources.

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Essentials of Athletic Injury Management
Prentice

**Informative Guide to Managing Injuries**
Essentials of Athletic Injury Management provides the information needed to manage the care of athletic injuries – from prevention, identification and assessment of injuries to interaction with players, parents and physicians.
- Designed for high school students taking an exercise science or introductory sports medicine course.
- Prepares students to manage injury and emergency situations when an athletic trainer or physician is not available.
- Includes action plans, checklists and applications of universal precautions in athletic environments to get started in the field.

**STUDENT BUNDLE**
(Student Edition with ConnectED eBook) subscription
- 6-years ..............................................978-0-07-672917-3 ...............$122.37
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- 1-year ..............................................978-0-07-667403-9 ...............$92.58

All purchasing options include access to the interactive, downloadable eBook on the ConnectED platform.

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Integrated Principles of Zoology
17th 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. This program is considered the standard by which other texts are measured with features including:
- High-quality illustrations and photographs set within an engaging narrative.
- Comprehensive coverage of biological and zoological principles, mechanisms of evolution, diversity, physiology, and ecology.
- A student-friendly, easy-to-navigate organization.

**STUDENT BUNDLE**
(Student Edition with Connect®)
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- 1-year ..............................................978-0-07-904903-2 ...............$141.66

**CONNECT® SUBSCRIPTION**
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- 1-year ..............................................978-0-07-680593-8 ...............$112.02

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A Global View of Environmental Science for AP Students

This new AP Edition of Environmental Science: A Global Concern presents a global view of environmental science in the context of the AP course and exam. By having students think critically, make clear connections, and apply their learning to real-world situations, the program emphasizes environmental responsibility and global awareness with a clear alignment to the College Board Curriculum Framework for AP Environmental Science. Features for AP Success include:

- AP Connections in the chapter openers that pinpoint the AP topics and key concepts covered in the chapter as well as the location of skills and practice to prepare for the exam.
- An AP-style chapter assessment with a vocabulary review, multiple choice questions, and data analysis and free-response questions.
- 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 and provides a pacing guide, useful activities, and answers to questions in the student edition.

STUDENT AP ADVANTAGE PRINT AND DIGITAL BUNDLE
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1-year ..............................................978-0-07-903359-8 ......................$150.00

AP advantage access includes an AP SmartBook, interactive eBook, AP Test Banks, an AP Teacher Manual, and more teaching and learning resources. For more information, see page 2.

A Concise and Conceptual View of Environmental Science for Honors Courses

Environmental Science: A Study of Interrelationships is a perfect choice for an honors/electives course with a full-color, student-friendly layout, an introductory-level approach that doesn’t overwhelm students with too much detail, and a concise and conceptual writing style that is both interesting and accessible. Students are taken on a scientific journey of our Earth and the relationship between humans and the natural world through Enger’s interdisciplinary approach that is presented through multiple perspectives - historical, economic, political, social and cultural. In addition, Environmental Science includes:

- Comprehensive, editable test banks for each chapter.
- Google Earth Activities, Labs, and additional inquiry activities to give students context for the global places and topics discussed in the text.
- An Online Teacher Manual featuring activities and ELL strategies.

STUDENT BUNDLE (Student Edition with Online Student Edition)
6-years ...........................................978-0-07-90382-6 ......................$148.65
1-year .............................................978-0-07-90385-7 ......................$144.18

All purchasing options include access to the Online Student Edition, which includes a SmartBook adaptive ebook and additional teaching and learning resources.
**NEW!**

**Stern’s Introductory Plant Biology**
14th Edition © 2018 Bidlack

Emphasizing current interests while presenting basic botanical principles, Stern’s Introductory Plant Biology assumes little prior scientific knowledge. Students will be introduced to the new classification of plants and plant-related species, integration of biotechnology into several chapters, and the inclusion of new text boxes addressing ecology, evolution, and molecular biology. This new edition also offers:

- Enhanced measurable learning outcomes.
- Updated additional readings that address new discoveries and technologies in plant biology.

**STANDARD STUDENT BUNDLE (Student Edition with Connect®)**
6-years ............................................ 978-0-07-904931-5  ..................... $154.50
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6-years ............................................. 978-0-07-899735-8  ..................... $136.86
1-year ............................................. 978-0-07-899740-2  ..................... $124.17

All purchasing options include Connect®, which features a SmartBook™ adaptive eBook and additional digital teaching and learning resources.

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**Principles of Environmental Science: Inquiry and Applications**
8th Edition © 2017 Cunningham

The goal of Principles of Environmental Science: Inquiry and Applications is to provide an up-to-date, introductory view of essential themes in environmental science. Limiting the book to 16 chapters, the authors offer students numerous opportunities to practice scientific thinking and active learning.

**STUDENT EDITION (SOFTCOVER)**
978-0-07-803607-1
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**NEW EDITION COMING IN 2018**

**Physical Geology**
15th Edition © 2016 Plummer

Physical Geology is a classic introductory text that has helped countless students learn basic physical geology concepts for more than 25 years. This edition features:

- An accessible writing style.
- Hundreds of illustrations and accompanying photographs that correlate with the chapter designations to help students quickly grasp concepts.
- Numerous chapter learning tools to further assist students in their study of physical geology.

**STUDENT EDITION (SOFTCOVER)**
978-0-07-809610-5
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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.
- A 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.

Student Edition (Softcover)
978-0-07-802293-7
Contact your rep for pricing

Marine Science
1st Edition © 2016
Castro

Investigating Oceanography
2nd Edition © 2017
Sverdrup

Sets a Solid Foundation for an Oceanography Course

Investigating Oceanography teaches students the tremendous influence oceans have on our lives. In order to understand the constant barrage of information concerning our planet and marine issues, the authors believe students must have a basic command of the language of marine science in addition to understanding processes and principles. This edition also:

- Teaches students about the historical, ecological, physical, chemical, and biological characteristics of the ocean environment.
- Uses remarkable images and photos to reinforce concepts.
- Features essays written by several scientists discussing topics in their fields of specialization.

Student Edition (Softcover)
978-0-07-802293-7
Contact your rep for pricing

All purchasing options include access to the Online Student Edition, which includes a SmartBook adaptive ebook and additional teaching and learning resources.
A Traditional Approach with a Fresh, New Look

Fully aligned to the College Board curriculum framework, Chang Chemistry balances rigorous college-level content with accessible and inspiring instruction built for AP success. Chang’s traditional approach to chemistry is delivered in a straightforward writing style with a strong focus on developing problem solving strategies and skills. The artwork in the 13th edition has been completely refreshed to give students visual insight into various topics and applications.

Built for AP Success
- An introduction to the AP Big Ideas and science practices in Chapter 1
- AP chapter reviews that feature AP-style questions and data analysis activities
- A Focus Review Guide workbook to apply and review the AP content covered in each chapter
- AP Test Banks, featuring AP-style questions to help students prepare for the AP exam
- AP Teacher Manual with helpful hints to support teachers throughout the course, as well as a pacing guide and classroom activities, and answers to the assessments in the student edition

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