Check Out Our New Advanced Placement Titles!!!

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

A concise and engaging biology text for biology majors, Understanding Biology emphasizes fundamental concepts to help students better understand biology and focus on developing scientific skills. This approach utilizes the Vision and Change guidelines of Core Concepts and Core Skills while helping students begin the process of becoming a scientist.

Interested? Read more on page 41

**Hole’s Human Anatomy & Physiology, High School Edn**
*Best Selling AP High School Program*

Hole’s Essentials of Anatomy & Physiology 2e introduces a new author, Dr. Charles Welsh, who brings over 30 years of classroom experience and a fresh perspective to this well-respected text. The new edition retains its high quality content and dynamic features plus delivers enhanced NGSS integration and ELL/ELA support.

Find out more about Hole’s Human Anatomy & Physiology on page 42

**The Good Earth: Introduction to Earth Science**
*Incorporates student-centered teaching to promote active learning in the classroom*

The Good Earth is the product of collaboration between the content rigor provided by Earth Science specialists and the results of research on learning. It has been explicitly designed to be compatible with active learning teaching strategies in the college classroom.

See more on page 45

**Chemistry in Context**
*Establishes chemical principles on a need-to-know basis for non-science majors.*

Goal of this successful, issues-based textbook is to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and significant issues facing science. The non-traditional approach reflects today’s technological issues and chemistry principles.

Read more about Chemistry in Context on page 48

**Chemistry: Atoms First**
*Provides a consistent and logical method for teaching general chemistry.*

Together with Connect, Chemistry: Atoms First is carefully crafted with the introductory-chemistry student in mind, this text has been developed using an atoms-first approach and written in a student-friendly, conversational tone. This text employs an outstanding art program, a consistent problem-solving approach, interesting applications woven throughout the chapters, and a wide range of end-of-chapter problems.

Check out Chemistry: Atoms First on page 49
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**Online Professional Learning**

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*Disclaimer: Information provided is accurate as of December 2020 and is subjected to changes without prior notice.*
# Level Chart

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# Level Chart

## Grade 9 to 12

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Explore Our Phenomenal World

Learning begins with curiosity. Inspire Science provides an in-depth, collaborative, and project-based learning experience designed to help you spark students’ interest and empower them to ask more questions and think more critically. Through inquiry-based, hands-on investigations of real-world phenomena, your students will be able to construct explanations for scientific phenomena or design solutions for real-world problems.

Are you ready to bring science off the page and beyond the four walls of your classroom?

Inspire Curiosity
Spark critical thinking.

Inspire Investigation
Spark inquiry-driven, hands-on exploration.

Inspire Innovation
Spark creative solutions to real-world challenges.

100% Built for the Next Generation Science Standards (NGSS)

RILEY
Automotive Engineer

ANTONIO
Robotics Engineer

www.mheducation.com.sg/inspire-science
Inspire Science is designed to foster students’ innate curiosity, elevate their critical thinking, facilitate hands-on investigation to deepen their understanding, and encourage creative problem-solving to inspire innovative thinking. The Inspire Science progressions within each grade establish a strong base of knowledge for the Performance expectations the following years.

Inspire Science also offers science read alouds, leveled readers, investigator articles, collaboration kits, and a variety of digital resources to engage students in collaborative hands-on learning.
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Science Read Alouds

Grades K–1

Introduce new science concepts and incorporate science with literacy using teacher read aloud books for your younger students. These books are perfect for a whole group or small group setting. Each book begins with a fictional story that piques student interest through an engaging story line. Informational text explains the science concepts that were introduced in the paired fictional story. There are two titles per module and the digital versions are great for whole class projection.

Leveled Readers

Grades K–5

Build literacy skills and science content knowledge simultaneously with interesting, informational text. There is one leveled reader title for every module. All leveled readers are available in approaching, on-level, beyond-level, ELL, and on-level Spanish*. Each reader includes text-dependent questions, vocabulary support, a fictional paired reading, and hands-on activities. The interactive versions of the leveled readers provide students with fun features like audio (including word-by-word highlighting), note-taking tools, and point-of-use vocabulary support.

Investigator Articles

Grades 2–5

Unleash student curiosity with real-world, Inspire Science Investigator articles. These informational text articles introduce students to real-world science and engineering and are packed with stunning imagery, dynamic graphs, tables, maps, and close reading questions that are sure to capture student interest and engage them in learning. Investigator articles are available in on-level, approaching-level (digital only), and Spanish* on-level.

www.mheducation.com.sg/inspire-science
Different Types of Online Resources

- **Ready-to-Go Lesson Presentations**
- **Simulations**
- **Interactives**

- **Science Songs**
- **Games**
- **eAssessment**

- **Videos**
- **Professional Development**
- **Inspire Science Investigator**
Understanding is the Foundation for Achievement

At McGraw Hill Education, we recognize that no two students are alike, and the need for personalized solutions could not be greater. Using revolutionary adaptive technology, LearnSmart® builds a learning experience unique to each student's individual needs.

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.

**Effective** study time

*Smartbook®* is an adaptive ebook that utilizes *LearnSmart®* technology to guide students through reading making every minute a student studies as productive as possible.

**Engage** students with a personalized reading experience

Every student experiences *SmartBook®* differently. The interactive challenge format highlights content and helps each student identify content they know, don’t know, and are most likely to forget.

**Easy-to-use** so students retain what they learned

When *LearnSmart®* detects content a student is most likely to forget, the student is presented the content for review to improve knowledge retention.

**Efficient** reporting tools pinpoint learning gaps

Students study more efficiently because they are aware of content they know and don’t know. Instructor reports identify at-risk students and highlight concepts the class as whole struggles to master.
Explore Our Phenomenal World

Learning begins with curiosity. Inspire Science provides an in-depth, collaborative, and project-based learning experience designed to help you spark students’ interest and empower them to ask more questions and think more critically. Through inquiry-based, hands-on investigations of real-world phenomena, your students will be able to construct explanations for scientific phenomena or design solutions for real-world problems.

Are you ready to bring science off the page and beyond the four walls of your classroom?

Inspire Curiosity
Spark critical thinking.

Inspire Investigation
Spark inquiry-driven, hands-on exploration.

Inspire Innovation
Spark creative solutions to real-world challenges.

LearnSmart®, It’s Proven
At McGraw-Hill Education, we recognize that no two students are alike. Using revolutionary adaptive technology, LearnSmart® builds a learning experience unique to each student’s individual needs.

Effective study time makes every minute count
The secret is SmartBook®, the first and only adaptive reading experience designed to change the way students read and learn. As the student progresses, SmartBook® highlights the most impactful concepts the student needs to learn. This ensures that every minute spent with LearnSmart® + SmartBook® is the most productive minute possible.

Engage study time makes every minute count
The secret is SmartBook®, the first and only adaptive reading experience designed to change the way students read and learn. As the student progresses, SmartBook® highlights the most impactful concepts the student needs to learn. This ensures that every minute spent with LearnSmart® + SmartBook® is the most productive minute possible.

Easy-to-use lessons for you and your students
When LearnSmart® detects content a student is most likely to forget, the student is presented the content for review to improve knowledge retention.

www.mheducation.com.sg/inspire-science
Efficient reporting tools help you maximize teaching time.

Real-time reporting tools allow teachers to use their time more efficiently because LearnSmart® manages and tracks individual student progress or the progress of the whole class. Teachers can focus on what your students don’t understand or still need to learn, rather than what they’ve already mastered. The end result? Students can better prioritize their time and come to class ready to participate.

Integrating LearnSmart® with SmartBook® Into Your Classroom.

Model 1: Flipped
Send students into LearnSmart® to do the “preview,” “read,” “start practice,” and “recharge” so they learn content before coming to class. During class, align the lesson with the LearnSmart® assignment. Finish the lesson with the assessment for the module. Start the cycle with the next module.

Model 2: Homework
Introduce the content in class, then assign students to work in LearnSmart® at home. From this work in LearnSmart® at home, differentiate instruction based on what students know and don’t know. Finish the unit with the assessment.

Model 3: Review
Give the entire lesson. Students then use LearnSmart® to review for the assessment. Throughout the year, use the recharge function to make sure students are ready for the longer, end-of-course assessment.

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Inspire Science 6-8 Integrated

Inspire Science 6–8 is built on the 5E instructional framework and integrates physics, chemistry, earth science, astronomy, and biology. Students will uncover preconceptions with formative assessment science probes. Cross-curricular connections are embedded throughout with quick and easy references to specific literacy, math, and engineering skills being reinforced through the science investigations.

Key Component Summary

- Student Materials consist of Print Edition (4 Units), Digital Subscription and Complete Bundle
- Teacher Materials consist of Print Edition (4 Units) and Digital Subscription
- Teacher Resources consist of Poster Package, Collaboration Kit (4 Unit) and Consumable Kit (4 Units)
Inspire Science Earth and Space, Life, and Physical Science

Earth and Space, Life, and Physical Science are designed to spark students’ interest and empower them to ask more questions, think more critically, and generate innovative ideas. With an integrated proven 5E instructional framework, Earth and Space, Life, and Physical Science provide in-depth, collaborative, evidence-based, and project-based learning experiences to place science students on the path to career and college readiness.

Key Component Summary

- Student Materials consist of Print Edition (4 Units), Digital Subscription and Complete Bundle
- Teacher Materials consist of Print Edition (4 Units) and Digital Subscription
- Teacher Resources consist of Poster Package, Collaboration Kit (4 Unit) and Consumable Kit (4 Units)
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.

Explore Our Phenomenal World

The Inspire Science High School series combines online and print resources to support student inquiry into real-world phenomena. Online projects and investigations give students options to plan their inquiry, collect evidence, and develop their reasoning. The Student Edition, as well as the digital Interactive Content and additional resources, serve as student research tools to add context and background knowledge. Full teacher support for classroom success is provided in both printed and digital formats. The Inspire Science High School series is thoughtfully designed to support students in the three dimensions of the NGSS—science and engineering practices, disciplinary core ideas, and crosscutting concepts. Learning progressions are specifically designed to build on previously-acquired knowledge and skills. Unit projects focus on real-world phenomena and engage students in science investigations and engineering solutions designed to meet performance expectations. The modules within each unit bundle additional investigations and projects that support acquisition of the knowledge and skills to meet additional performance expectations and prepare for the unit project. The Three-Course Model of the Inspire Science High School series meets your needs by including all high school performance expectations within Inspire Biology, Inspire Chemistry, and Inspire Physics. Each high school program integrates and highlights the nature of Earth and Space Sciences as an interdisciplinary pursuit.

www.mheducation.com.sg/inspire-science
Inspire Biology provides an in-depth, collaborative, and project-based learning experiencing focused on the science of biology. The program covers ecology, cell biology, genetics, the history of biological diversity, the diversity of life, and the human body, as well as cross-curricular earth science topics. Through inquiry-based and hands-on investigations of real-world phenomenon, students will construct explanations for scientific phenomenon and design solutions for real-world problems.

Resources

- **Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
- **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.
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- **Read Anywhere App** allows you to access your eBook anywhere at any time.
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Inspire Chemistry provides an in-depth, collaborative, and project-based learning experience focused on the science of chemistry. The program covers structure and properties of matter, chemical bonding and reactions, matter, energy, and equilibrium, and organic and nuclear chemistry, as well as cross-curricular earth science topics. Through inquiry-based and hands-on investigations of real-world phenomenon, students will construct explanations for scientific phenomenon and design solutions for real-world problems.

Resources

- **Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
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Inspire Physics provides an in-depth, collaborative, and project-based learning experiences focused on the science of physics. The program covers mechanics in one dimension, mechanics in two dimensions, momentum and energy, waves and light, electricity and magnetism, and subatomic physics, as well as cross-curricular earth science topics. Through inquiry-based and hands-on investigations of real-world phenomenon, students will construct explanations for scientific phenomenon and design solutions for real-world problems.

Resources

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## STUDENT RESOURCES

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Inspire Earth Science lets you chart your own course by combining tools and resources to engage students at all levels with the proven, comprehensive content of McGraw-Hill Education.

Built by teachers for teachers, Inspire Earth Science 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, Inspire Earth Science gives you the resources to bring the wonders of our world down to earth.

Resources

- **Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
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Inspire Physical Science © 2020 comes alive with engaging, relevant explorations geared toward building an in-depth understanding of the big ideas of the physical world.

Inspire Physical Science with Earth integrates a comprehensive coverage of physics and chemistry with mathematics through accessible text, engaging features, and a variety of hands-on experiences.

Including meaningful interactions with the big ideas of physical science, 21st century skills through a variety of inquiry and problem-solving strategies, and personalized learning and differentiation with powerful new tools including LearnSmart®.

Resources

- **Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
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Engage High School Students with the Best Science Solutions

Glencoe High School Science bonds students to science by connecting dynamic content with real-world investigations, engaging lab experiences, and a rich array of resources. Titles available include:

- Glencoe Biology
- Chemistry: Matter and Change
- Glencoe Physics: Principles & Problems
- Earth Science: Geology, the Environment, and the Universe
- Physical Science
- Glencoe Physical Science with Earth Science

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. *Not available for Glencoe Physics: Principles & Problems.*
- **Problem Solving Handbook** supports students with content review and additional problems and examples. *Only available for Chemistry: Matter and Change.*
- **Reading Essentials** accommodates students with different reading levels to support the teaching of struggling readers. *Not available for Chemistry: Matter and Change and Glencoe Physics: Principles & Problems.*
- **LearnSmart®** is both adaptive and interactive to help students learn faster and increase their knowledge retention.

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• **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.
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

BIOLOGY TABLE OF CONTENTS

1 The Study of Life
Unit 1 Ecology
  2 Principles of Ecology
  3 Communities, Biomes, and Ecosystems
  4 Population Ecology
  5 Biodiversity and Conservation

Unit 2 The Cell
  6 Chemistry in Biology
  7 Cellular Structure and Function
  8 Cellular Energy
  9 Cellular Reproduction

Unit 3 Genetics
  10 Sexual Reproduction and Genetics
  11 Complex Inheritance and Human Heredity
  12 Molecular Genetics
  13 Genetics and Biotechnology

Unit 4 History of Biological Diversity
  14 The History of Life
  15 Evolution
  16 Primate Evolution
  17 Organizing Life’s Diversity

Unit 5 Bacteria, Viruses, Protists, and Fungi
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Unit 7 Invertebrates
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  27 Echinoderms and Invertebrate Chordates

Unit 8 Vertebrates
  28 Fishes and Amphibians
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  30 Mammals
  31 Animal Behavior

Unit 9 The Human Body
  32 Integumentary, Skeletal, and Muscular Systems
  33 Nervous System
  34 Circulatory, Respiratory, and Excretory Systems
  35 Digestive and Endocrine Systems
  36 Human Reproduction and Development
  37 The Immune System

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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 research-based method of organizing information for effective study and retention of content.

CHEMISTRY TABLE OF CONTENTS

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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
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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
**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

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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 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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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
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The Pathway To Success For Today’s AP Students

AP advantage helps students navigate the rigors of Advanced Placement® coursework with accessible, engaging, and fully aligned resources designed to support the way they learn – individually. From pre-course skill mastery, through comprehensive core curriculum, to targeted and adaptive test prep, AP advantage tailors the learning experience to students’ diverse needs and learning styles. Prepare your students to succeed in approaching AP course content, thinking critically, making clear connections, and effectively applying their understanding.

Put your students on the pathway to AP success with:

- Self-paced, diagnostic AP course prep
- Comprehensive core curriculum fully aligned to AP standards
- Clear, accessible, skills-based pedagogy
- A robust digital platform with customizable resources designed to support today’s AP teachers and students
- Flexible implementation with print, digital or hybrid options
- Personalized AP test prep

“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
AP Course Prep
- Self-paced, diagnostic, interactive AP course prep
- Builds prerequisite skills and knowledge
- Great for first weeks of school assignments

AP Course Resources
- Robust online teaching and learning platform that extends class instruction
- Interactive, engaging pedagogy tied to the text
- Powerful reporting tools and customizable content

AP Test Prep
- Personalized, adaptive AP content review
- Four complete, autograded AP practice exams
- Builds mastery and confidence for AP Exam success

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

The AP advantage is included with every AP edition and offers single sign on, is LMS compatible, and mobile ready!

Access to select titles on the go is easier and more effective than ever before with the ReadAnywhere mobile app.
Biology

Trusted, Accessible Content with New Coverage for the New Course

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. The digital resources for Mader Biology align the student edition to the new AP Curriculum Framework with updated resources, including:

- Updated program and chapter-level correlations.
- A wealth of data analysis activities that require students to apply the science practices.
- A direct link to the new course and exam description.
- AP Test Banks, featuring AP-style questions to help students prepare for the AP exam.
- The updated 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.

Human Biology

Understanding Biology Through the Lens of the Human Body

Mader’s Human Biology accomplishes the goal of improving scientific literacy, while establishing a foundation of knowledge in human biology and physiology. The text integrates a tested, traditional learning system with modern pedagogical approaches designed to stimulate and engage today’s student. Updated chapter openers, featured readings, and Connections focus on issues and topics important to today’s generation of students.
Understanding Biology

Concise and Engaging

*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.
- Connecting the Concepts, a synthesis feature, helps students understand the connections between biological concepts helping them “see” the big picture.

Inquiry Into Life

Present Honors Biology From a Human Perspective

Inquiry into Life was originally developed to reach out to science-shy students. The text now represents one of the cornerstones of introductory biology education. It is founded on the belief that teaching science from a human perspective, coupled with human applications, will make the material more relevant to the student.

- Updated chapter openers and readings reflect more recent discoveries or topics of interest in the life sciences.
- Updated statistics, maps, and tables reflect changes in our scientific understanding of the topic.

Foundations In 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.
Hole’s Human Anatomy & Physiology

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 who have little-to-no prior science 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.

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Hole’s Human Anatomy & Physiology, High School Edn

The #1 Program for the High School A&P Course

The second edition of Holes Essentials of Anatomy & Physiology retains the program’s high quality content and dynamic features and delivers enhanced NGSS integration and ELL/ELA support. The high school friendly presentation masterfully blends text and imagery to engage students with approachable content as they learn to apply concepts to various fields of study, making this an ideal selection for an introductory course.

With this new edition of Hole’s Essentials of Human Anatomy & Physiology we introduce Charles Welsh as the primary author to provide a cohesive narrative with a single voice. With over 30 years of experience in anatomy and physiology classrooms instructing future nurses and other allied health professions, Dr. Welsh brings a fresh perspective to this well-respected text.

- A new High School Teacher Manual, available in print and online, includes teaching strategies and pacing, group projects, classroom activities, and ELL and ELA support activities.
- Unit projects and thematic, chapter-level case studies bring relevance and real-world application to instruction.
- Expanded Chapter Reviews include new multiple-choice, short-answer, and critical thinking and clinical application questions.
- Lab Data Analysis, Case Study Wrap-up and a Chapter Project are designed to help students enhance their engagement with, and proficiency in, the science and engineering practices.
- Online Focus Activities provides interactive labeling and vocabulary activities to check student mastery of difficult structures, vocabulary, and concepts.
- Concept Overview Interactives offer ground-breaking interactive animations that encourage students to explore key physiological processes and difficult concepts.

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Human Genetics: Concepts and Applications
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.
- SmartBook™, an adaptive eBook that personalizes reading content for each student.

Zoology
Ideal for a One-Semester, Introductory Course

Written in an informative and friendly writing style that doesn’t overwhelm students with unnecessary terminology, this text is a perfect fit for a high school elective course. Zoology emphasizes ecological and evolutionary concepts and helps students understand the process of science through elements of chapter organization and boxed readings. Features include:

- Section and chapter reviews to reinforce understanding and self tests to revisit concepts that may have been missed.
- Updated human population and endangered species statistics.
- Coverage of ecological problems, including an assessment of the eight critical environmental processes.

Integrated Principles of Zoology
The Gold Standard for Introductory Zoology

Emphasizing the central role of evolution in generating diversity, this best-selling text 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, this text is considered the gold standard. This edition also includes:

- Accessible coverage, organized in five parts, suitable for today’s high school elective courses.
- Comprehensive coverage of biological and zoological principles, mechanisms of evolution, diversity, physiology, and ecology.
- Extensive vocabulary support including a glossary that provides pronunciation, derivation, and definition of each term.
- Opening chapter prologues drawn from the chapter’s theme to establish to contextualize the learning.
- Chapter summaries and review questions to aid in comprehension and study.
- Chapter notes and essays that offer interesting sidelights to the narrative.
Environmental Science: A Global Concern

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.

View ISBN List on page 63

Environmental Science: A Study of Interrelationships

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.

View ISBN List on page 63
Principles of Environmental Science: Inquiry and Applications

**Concise Program for Introductory Environmental Science**

Principles of Environmental Science: Inquiry and Applications is a concise text that provides an up-to-date introductory view of essential themes in environmental science. Condensed to 18 chapters, the authors offer students numerous opportunities to practice scientific thinking and active learning. The beautifully rendered art and creative paging bring key concepts and highlight critical topics, and boxed reading exemplifies the principles of scientific observation and data gathering.

Stern’s Introductory Plant Biology

**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.

Features include:

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

The Good Earth: Introduction to Earth Science

**Reveal the Big Picture for Earth Science**

The structural elements of The Good Earth incorporates student-centered teaching to promote active learning in the classroom. Three scientific themes anchor the instruction: scientific literacy; Earth Science and the human experience; and the science of global change.

- The discussion of scientific methods is woven into the text throughout.
- Numerous examples of human interaction with the Earth encourage students to appreciate the nature of science.
- The global change theme reflects current Earth Science data and research.
Ecology: Concepts and Applications
An Evolutionary Perspective

*Ecology: Concepts and Applications* places great emphasis on helping students grasp the main concepts of ecology while keeping the presentation more applied than theoretical. An evolutionary perspective forms the foundation of the entire discussion. The text begins with the natural history of the planet, considers portions of the whole in the middle chapters, and ends with another perspective of the entire planet in the concluding chapter. Its unique organization of focusing only on several key concepts in each chapter sets it apart from other ecology texts.

Physical Geology
Tried and True Introductory Geology Text

Physical Geology, 16th edition, is the latest refinement of a classic introductory text that has helped countless students learn basic physical geology concepts for over 25 years. Feature include:

- 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

Exploring Geology
Ground Breaking and Visually Spectacular

This innovative textbook was designed from cognitive and educational research on how students think, learn, and study. Nearly all information in the book is built around 2,600 photographs and stunning illustrations, rather than being presented in long blocks of text that are not articulated with figures. These annotated illustrations help students visualize geologic processes and concepts. To alleviate cognitive load and help students focus on one important geologic process or concept at a time, the book consists entirely of two-page spreads organized into 19 chapters.

View ISBN List on page 64
Investigating Oceanography

Presents Oceanography as a Cohesive, United Discipline

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

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

Marine Science

An Interconnected, Global Perspective of the World Ocean

The first edition of *Marine Science* became an instant beloved text with its full coverage of oceanography, stunning design, student-friendly learning system, and data analysis labs. Now in its second edition, the program further expands its coverage through chapter-level NGSS integration, more robust chapter reviews, additional unit projects, and ELL support. Students’ and Teachers’ Favorite Features Include:

- Study Strategy activities, including listening, speaking, reading, and peer interactions to support a variety of learning styles.
- Vocabulary activities and support that help students acquire and understand the key terminology of marine science.
- Inquiry Activities in the Nature of Science, Marine Science in Action, Habitat Spotlight, and Humans and the Ocean features allow students to expand upon what they’ve studied.
- A Lab Manual with 42 labs—no ocean needed!
- Teacher Manual, available in print and online, includes a detailed pacing guide for each chapter, chapter summaries, answers to the section and chapter review questions, and differentiated instruction strategies and activities.

View ISBN List on page 64
Advanced Placement

Chemistry

The updated digital resources align Chang Chemistry to the new AP Curriculum Framework. The program 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

- Updated program and chapter-level correlations
- Updated AP Test Banks, featuring AP-style questions to help students prepare for the AP exam
- An updated 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
- A direct link to the new course and exam description

Chemistry in Context

Contemporary, Comprehensive Approach to Chemistry

Chemistry in Context establishes chemical principles on a need-to-know basis for non-science majors. It teaches chemistry in the context of students’ lives and the significant issues facing science and the world. This nontraditional approach accounts for the chemistry principles found within today’s technological issues.

View ISBN List on page 64
Chemistry: Atoms First

Atoms-First Approach to General Chemistry

The Chemistry: Atoms First approach provides a consistent and logical method for teaching general chemistry that starts with the fundamental building blocks of matter and atoms, and uses them as stepping stones to understanding more complex chemistry topics. Only after the study of matter and atoms will students have sufficient background to fully engage in more advanced topics. Thus, the Atoms First method empowers teachers to present the most complete and compelling story of general chemistry.

College Physics

A Conceptual Framework for AP Physics

College Physics presents a unique forces-first approach to physics that builds a conceptual framework as motivation for the physical principles. This edition addresses the needs of today’s students with:

- Consistent problem-solving coverage strategies
- Stunning art
- Extensive end-of-chapter material

The Physics of Everyday Phenomena

Introduction to Physics Using Real-Life Examples

The Physics of Everyday Phenomena introduces students to the basic concepts of physics using examples of common occurrences in everyday life. This book is written in a narrative style, frequently using questions designed to draw students into a dialogue about the ideas of physics. The perfect choice for anyone interested in the nature of physics, this edition also features numerous student aids and reduced math content for beginning students.
**Integrated Science**

**A Fundamental Introduction in an Historical Context**

This a straightforward and easy-to-read yet substantial introduction to the fundamental behavior of matter and energy in living and nonliving systems provides opportunities to experience the methods of science by evaluating situations from a scientific point of view. Often presented in a historical context, basic discussions of the different branches of science help students understand how they relate.

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**Explorations: An Introduction to Astronomy**

**A Comprehensive Solution for an Introductory Astronomy Course**

The ninth edition retains its approachability and use of analogies and examples from the world around us to help students understand more complex content. This new edition includes the latest results and analysis of exoplanets that continue to change our views about planets and planetary systems. Coverage of fascinating new discoveries such as the interstellar asteroid ‘Oumuamua, gravitational waves from merging black holes, and neutron stars by LIGO ensure the learning is both exciting and current.

This edition also offers:

- An expanded “Cosmic Periodic Table” to indicate the latest thinking about how the elements each formed.
- 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.
- A wide range of end-of-chapter problems. A strong focus on biological and medicinal applications.

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An high school equivalency test prep program for students with a 9-12 grade level equivalent.

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