

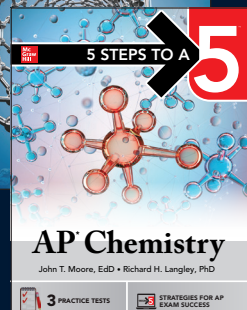
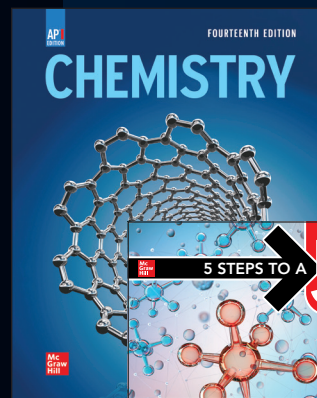
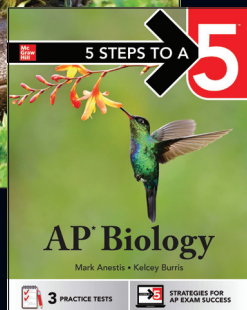
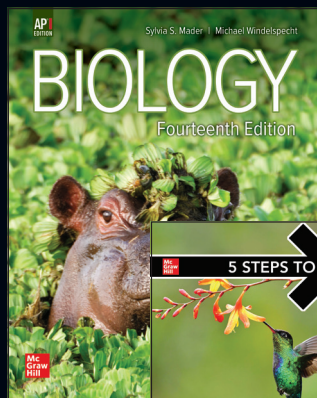
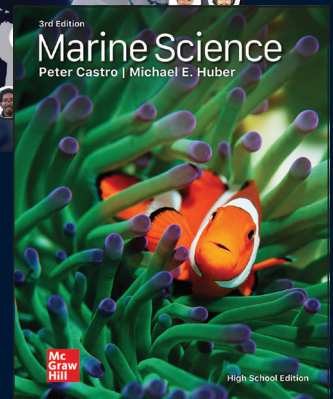
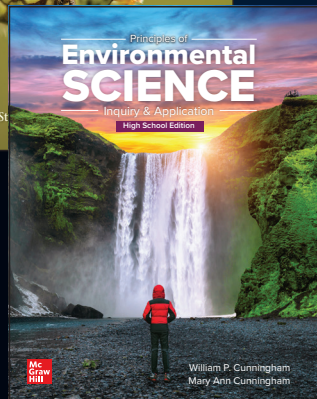
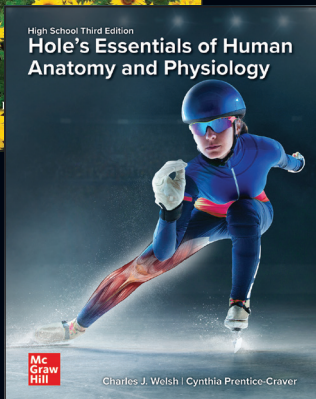
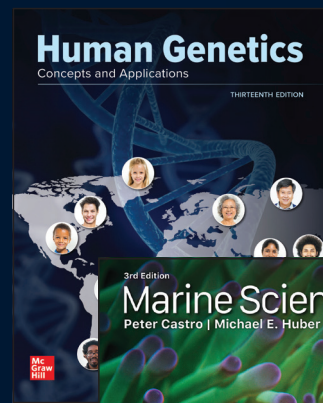
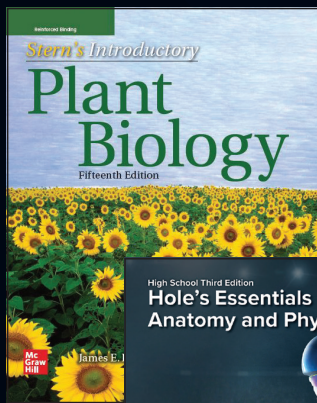


mheducation.com/mississippi

MISSISSIPPI SCIENCE

ELECTIVES & ADVANCED PLACEMENT®

Overview and Digital Walkthrough

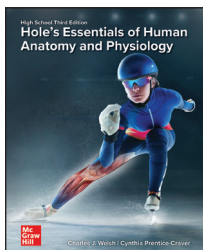


Stay on Track to College and Career Readiness

Find the right solutions to ensure Mississippi 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 with purposeful lessons, extensive practice, a variety of opportunities for concept mastery, and alignment to the College- and Career-Readiness Standards for Science (CCRS), to lead them to success in college and beyond.

Develop Higher-Level Skills and Knowledge

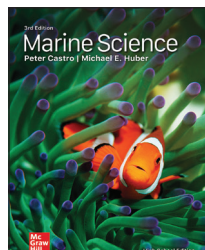
High School Electives



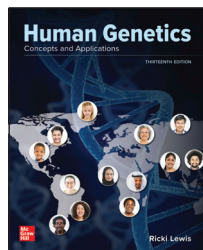
More Resources
for Maximum
Approachability



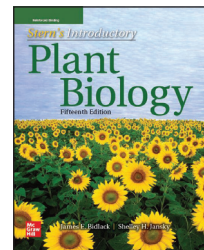
Current and
Feature Rich



A Deep Exploration



A Vivid Narrative



An Introduction
to Botany



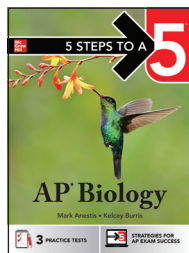
Informative and
Friendly Approach

Engage with College-Level Content Aligned for AP Success

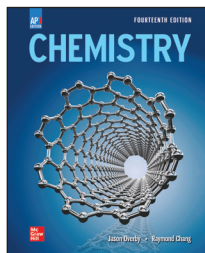
Advanced Placement



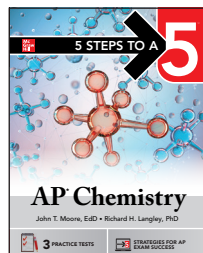
Trusted, Accessible,
and AP Aligned



Tried and True
Test Prep



A Fully Aligned,
Traditional
Approach



Build AP Muscle
Memory All Year

Go Beyond Expectations

Available with select courses, *Actively Learn™* is a powerful digital platform that engages every student with curated, subject-specific lessons and sources. Teachers have access to a vast catalog of diverse content with embedded student supports to drive deeper critical thinking and peer collaboration.

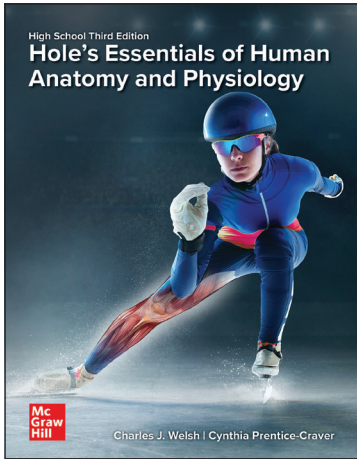
Actively Learn™

Key Features Include:

- Compelling, standards-aligned assignments.
- Built-in scaffolds and immediate feedback.
- Student-driven reading tools, including text-to-speech and annotations.
- Rich data to measure student progress across standards in real time.



Visit mheducation.com/ActivelyLearn



Hole's Essentials of Human Anatomy and Physiology, High School Edition

3rd Edition © 2026

Welsh

For Electives

Actively Learn™

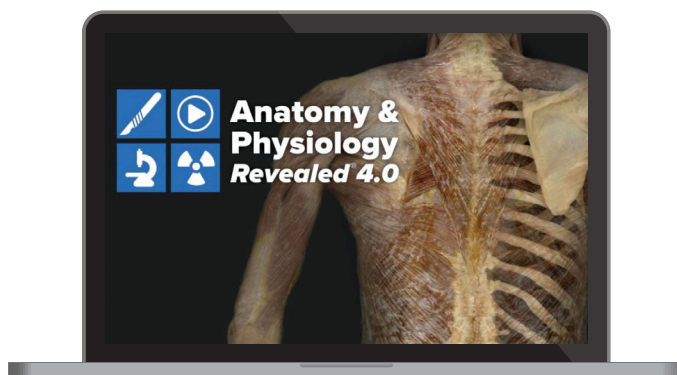
See Inside Front Cover

The #1 Program for Today's High School A&P Course

The third edition of *Hole's Essentials of Human Anatomy and Physiology* retains the program's high-quality content and dynamic features and delivers CCRS integration and EL/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 edition of *Hole's Essentials of Human Anatomy and Physiology*, we welcome Cynthia Prentice-Carver as co-author alongside Charles Welsh, combining their decades of experience in anatomy and physiology classrooms instructing future nurses and other allied health professionals to bring a fresh perspective to this well-respected text.

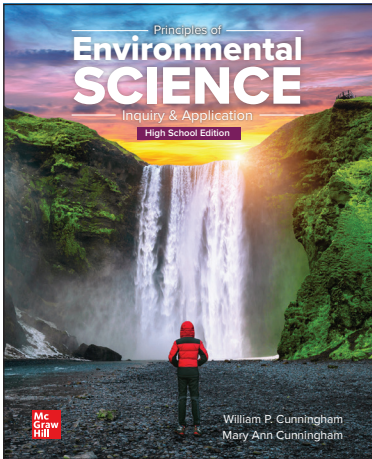
- An updated high school Teacher Manual, available in print and online, includes easy-to-navigate pacing summary with integrated suggestions for activities and labs, as well as updated vocabulary scaffolding techniques.
- Unit projects and thematic, chapter-level case studies bring relevance and real-world application to instruction, focusing on connections to careers in health science.
- Expanded Chapter Reviews include new multiple-choice, short-answer, and critical thinking and clinical application questions.
- Lab Data Analysis, Case Study Wrap-ups, and Chapter Projects are designed to help students enhance their engagement with and proficiency in science and engineering practices.
- Online Focus Activities provide interactive labeling and 37 scaffolded vocabulary activities to check student mastery of difficult structures, vocabulary, and concepts.
- Concept Overviews offer groundbreaking interactive animations that encourage students to explore key physiological processes and difficult concepts.
- The Lab Manual contains 77 hands-on activities. Dozens of additional virtual labs are included in the digital resources.
- *Actively Learn*™ delivers hundreds of curated articles to make connections to real-world applications.
- Kahoot! gamifies the lessons.
- 5E lesson plans align to every unit, chapter, and lesson.



Anatomy & Physiology REVEALED® (APR) is the ultimate dissection experience that visually enriches your lectures and labs with 3D Interactive Models, engaging animations, and real-life images.

Access to the Online Student Edition includes access to the eBook, SmartBook® adaptive eBook, and additional digital learning resources. Teacher resources include eBook, SmartBook, Teacher Manual, PowerPoint presentations, assignable resources, Gradebook, Pacing Guides, and more. Bundle options without APR are available.

Visit mheducation.com/mississippi to request a sample.



Principles of Environmental Science: Inquiry & Application, High School Edition

1st Edition © 2023
Cunningham
For On-level Courses

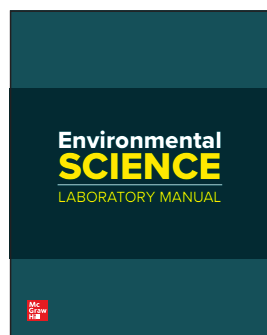
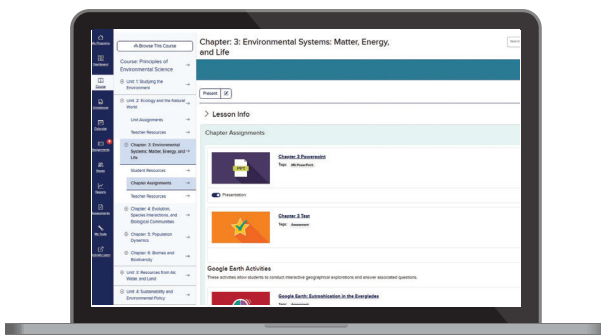
Actively Learn™
See Inside Front Cover

A Current and Applied Approach for High School

Crafted specifically for a high school environmental science course, *Principles of Environmental Science: Inquiry & Application* is true to its title with an up-to-date, introductory view of the essential themes of the course and numerous opportunities for students to practice scientific thinking and active learning. Accessible pedagogical tools lead students to apply science and engineering practices, work with real-world data, and better understand environmental science and all of its complexities.

Presented in a single-column format for optimal readability and organized into four units with CRSS integration, this feature-rich program was designed to support student success.

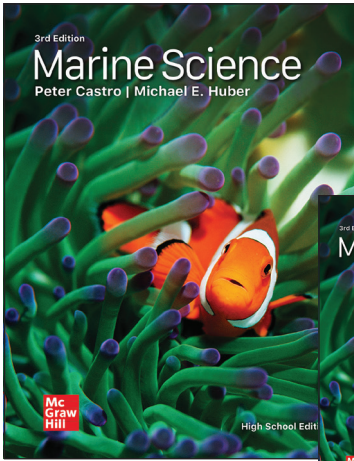
- Unit Projects, Case Studies, Data Analysis Labs, and Use the Practice activities apply science and engineering practices to real-world issues related to the field of study.
- Chapter Case Studies and Claim, Evidence, and Reasoning boxes prompt students to develop and research their own claim to enhance investigation and reasoning skills.
- Math Connection provides opportunities to practice quantitative and computational thinking skills.
- Realistic, three-dimensional, and instructional figures provide depth and orientation to complex structures and processes.
- The High School Teacher Manual, available in print and online, includes teaching strategies, pacing, activities with differentiated instruction, and ELL and visual literacy support.



The Lab Manual brings environmental science to life through hands-on activities and inquiry-based labs. The online Teacher Manual provides hints and strategies to help with lab execution.

Robust digital resources include the *SmartBook*®, eBook, Google Earth activities, graphing and mapping activities, auto-graded test banks, and virtual labs.

Access to the Online Student Edition includes access to the eBook, SmartBook adaptive eBook, and additional digital learning resources. Teacher resources include eBook, SmartBook, Teacher Manual, PowerPoint presentations, assignable resources, Gradebook, Pacing Guides, and more.

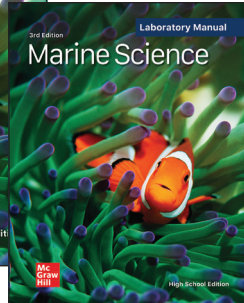


Marine Science

3rd Edition © 2025

Castro

For Electives



Actively Learn™
See Inside Front Cover

An Interconnected, Global Perspective of the World Ocean

Marine Science is a beloved text highly regarded for its interdisciplinary focus, inclusion of oceanography and biology, stunning design, and data analysis labs. This edition combines the authors' decades of experience in the field and classroom, up-to-date data, and alignment to the CCRS, with a unique new design specifically for high school students and teachers.

Dive into the World of Marine Science

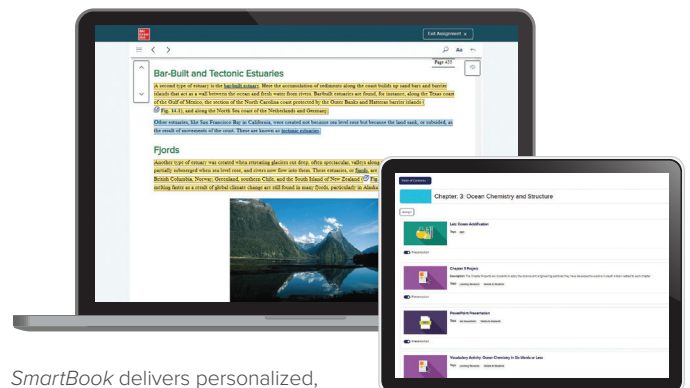
The third edition enhances the text's accessibility with:

- A fresh, student-friendly presentation, dynamic artwork, and a wide array of eye-catching images.
- An increased focus on careers that gives students insight into the field of marine science.
- Engaging videos and interactivities to bring the content to life as students explore the world ocean.
- Up-to-date features that reflect new discoveries and technological advances paired with critical thinking questions and online inquiry activities.
- A full array of resources includes a Teacher Manual, and a Lab Manual aligned to the student text.

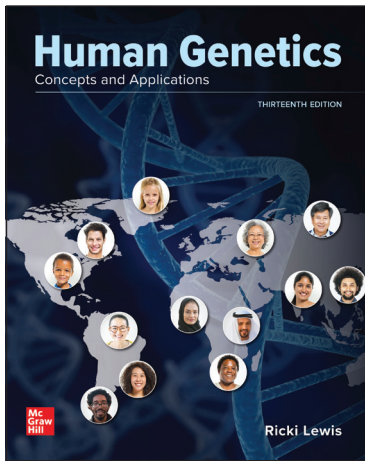
Best-in-Class Digital Resources

- An interactive eBook with videos and activities.
- An adaptive *SmartBook*® that provides personalized instruction, remediation, and practice.
- A Lab Manual in both print and eBook formats that drives hands-on inquiry.
- Interactivities, resources, and assessments for each chapter.
- A wealth of customizable teacher resources.

Access to the Online Student Edition includes access to the eBook, *SmartBook* adaptive eBook, and additional digital learning resources. Teacher resources include eBook, *SmartBook*, Teacher Manual, PowerPoint presentations, assignable resources, Gradebook, Pacing Guides, and more.



SmartBook delivers personalized, adaptive learning tailored to each student's individual needs.



Human Genetics

13th Edition © 2021

Lewis

For Electives

Explore the Science of Human Genetics

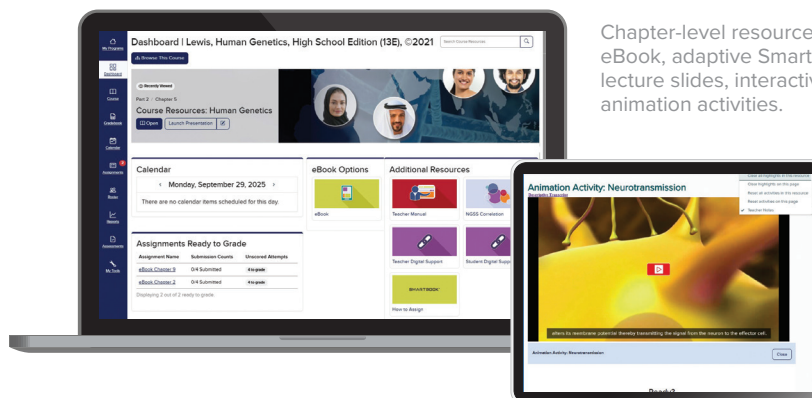
This vivid narrative illuminates the principles and concepts of the science of genetics. Cases, historical asides, and descriptions of new technologies propel the clear explanations of concepts and mechanisms. In this new edition, a broader coverage of topics, yet with more practical information, prepares students to evaluate media reports, interpret genetic test results, and think critically about health care and medical science.

The learning outcomes in each chapter guide students through content mastery; the Big Picture encapsulates the overall themes; and the captivating photography and vibrant, dimensional illustrations visually engage students in the content. Plus, the robust digital resources enhance the teaching and learning experience.

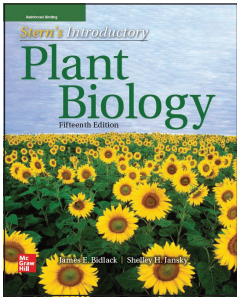
Digital Resources Extend and Engage

Human Genetics: Concepts and Applications is enriched with multimedia content including videos, animations, and simulations that enhance the teaching and learning experience both inside and outside of the classroom, including:

- Comprehensive test banks for each chapter.
- Full-color animations illustrating important processes to help augment classroom instruction.
- Online Teacher Manual including ELA activities, chapter outlines, lecture discussion ideas, and answers to textbook review questions.
- Customizable PowerPoint presentations to help teachers structure classroom instruction.
- An eBook and a *SmartBook*®—the assignable, mobile-compatible, adaptive study tool that personalize the learning experience.



Chapter-level resources include an interactive eBook, adaptive SmartBook, labeling activities, lecture slides, interactive question banks, and animation activities.



Stern's Introductory Plant Biology High School Edition

15th Edition © 2022

Bidlack

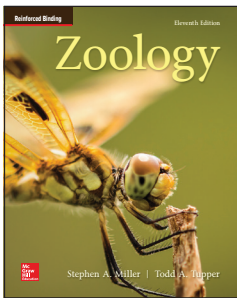
For Botany

An Introduction to Plant Biology

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. The text also includes an integration of biotechnology into several chapters and boxes addressing ecology, evolution, and molecular biology.

Additional Features

- A chapter outline, review questions, discussion questions, and additional reading lists are provided for each chapter.
- New terms are defined as they are introduced and included, with their pronunciation, in a glossary.
- Alignment to the College- and Career-Readiness Standards for Science.
- Appendices include a list of the scientific names of all organisms mentioned throughout the text; biological controls and companion planting; coverage of a wide variety of plant types; horticultural information on house plants; brief discussions on how to cultivate vegetables and their nutritional values; and metric equivalents and conversion tables.



Zoology

11th Edition © 2019

Miller

Semester-Long Course

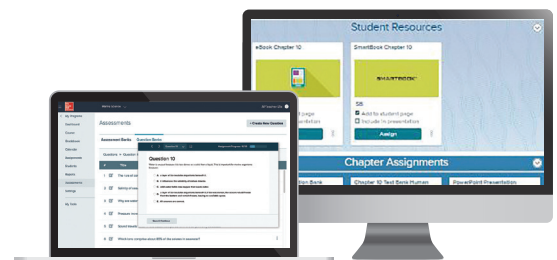
Ideal for a One-Semester Zoology Course

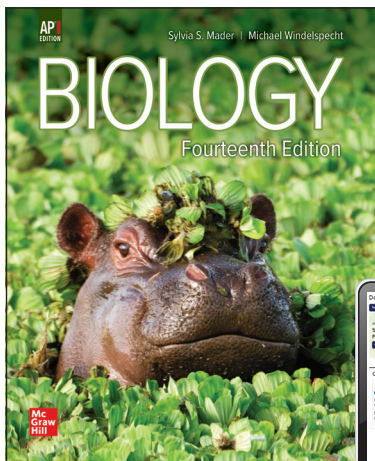
Written in an informative and friendly writing style that doesn't overwhelm students with unnecessary terminology, this text is a perfect fit for a high school elective course. *Zoology* emphasizes ecological and evolutionary concepts and helps students understand the process of science through elements 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.
- Coverage of ecological problems, including an assessment of the eight critical environmental processes.
- Alignment to the College- Career-Readiness Standards for Science.

Personalized, Adaptive, and Dynamic Digital Resources

- Full-color animations that illustrate a variety of zoology concepts.
- Online Teacher Manual with chapter outlines, teaching suggestions, differentiated instruction activities, and ideas for lecture enrichment.
- Customizable PowerPoint presentations to help teachers structure classroom instruction.
- An eBook and a *SmartBook*® adaptive reading experience, designed to help students learn faster, study more efficiently, and retain more knowledge.



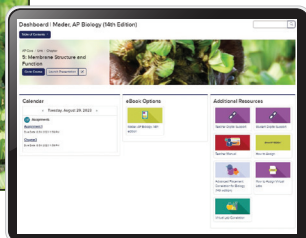


Biology, AP[®] Edition

14th Edition © 2022

Mader

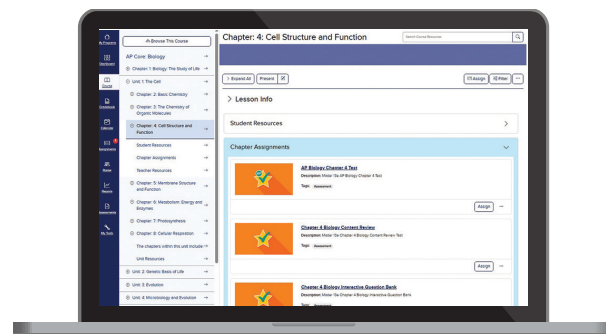
For AP Biology



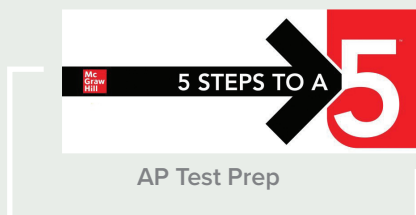
Trusted, Accessible, and 100% Aligned for AP Success

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. This new edition is 100% aligned to the AP Curriculum Framework with:

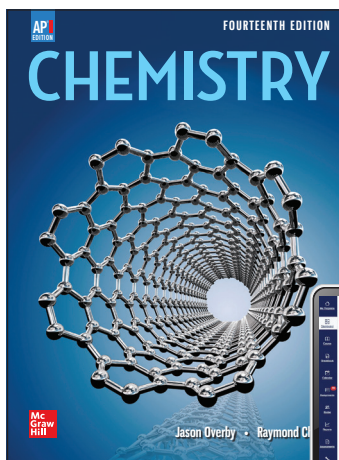
- An AP Introductory Chapter and AP Unit Openers that detail how chapters within the unit align to the Framework.
- AP Chapter Openers that address the AP Units and AP topics covered in the chapter.
- High-interest, boxed features to reinforce the AP Big Ideas.
- End-of-section “AP Check Your Progress” reviews.
- AP chapter summaries and AP Assessments with multiple-choice and free-response questions correlated to the topics and learning objectives in each chapter.
- AP Test Prep with interactive Unit Reviews covering 65 topics organized around the Framework.
- Two full AP practice exams.
- Dozens of virtual labs.
- An AP Edition eBook and a *SmartBook*[®] that delivers an adaptive, personalized reading experience anytime, anywhere.
- An alternate eBook is streamlined into discrete modules organized around the College Board AP Units to provide focused exam review.
- An AP Teacher Manual that provides innovative strategies to support teaching the science practices and course content.



Chapter-level resources include AP overviews and key concepts, strategies for teaching the chapter, AP assignments, and benchmarks.



5 Steps to a 5: *AP Biology*, available in print and digital, guides students through an effective five step study plan to help them build skills, knowledge, and test-taking confidence. With the new digital course, classroom management features allow teachers to create assignments and track student progress, and so much more.

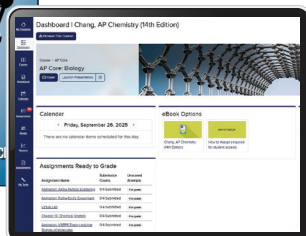


Chemistry, AP[®] Edition

14th Edition © 2023

Chang, Overby

For AP Chemistry



A Traditional Approach Updated for Complete AP Alignment

Fully updated for lock-step alignment to the AP Chemistry Framework, this edition retains the beloved traditional approach as it balances rigorous college-level content with accessible and inspiring instruction. To support learners at all levels for AP success, Chang uses a straightforward writing style and promotes a strong focus on developing problem-solving strategies. Stunning artwork gives students visual insight into topics.

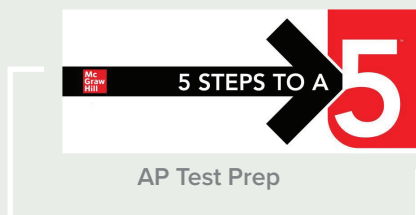
Features for AP Success

- Chapter 1 provides a thorough introduction to the AP Units and Science Practices to establish the context for the learning ahead.
- AP Chapter Openers, Chapter Summaries, and AP Chapter Reviews ensure focus on the most important content and concepts.
- The unique program design provides visual correlations of the chapters to the AP Chemistry Curriculum Framework.
- Thinking Critically prompts provide opportunities for students to demonstrate their reasoning skills.
- Step-by-step, worked-through example questions and guided practice problems highlight intermediate steps in problem-solving.
- A robust digital platform includes the *SmartBook*[®], eBook, AP Unit Reviews, AP test prep, ALEKS[®], and practice exams.
- Revised topic titles and updated Learning Objectives and Essentials Knowledge statements reflect the latest course revisions.
- An AP Teacher Manual, available in print and online, includes classroom activities, pacing guides, lab activities, and directives for using the AP Chemistry Laboratory Manual.



For AP Chemistry

More practice! Available with the digital subscription, ALEKS uses adaptive questioning to quickly and accurately determine exactly what math and chemistry topics a student knows and doesn't know, and instructs each student on the topics they are most ready to learn.



5 Steps to a 5: *AP Biology*, available in print and digital, guides students through an effective five step study plan to help them build skills, knowledge, and test-taking confidence. With the new digital course, classroom management features allow teachers to create assignments and track student progress, and so much more.

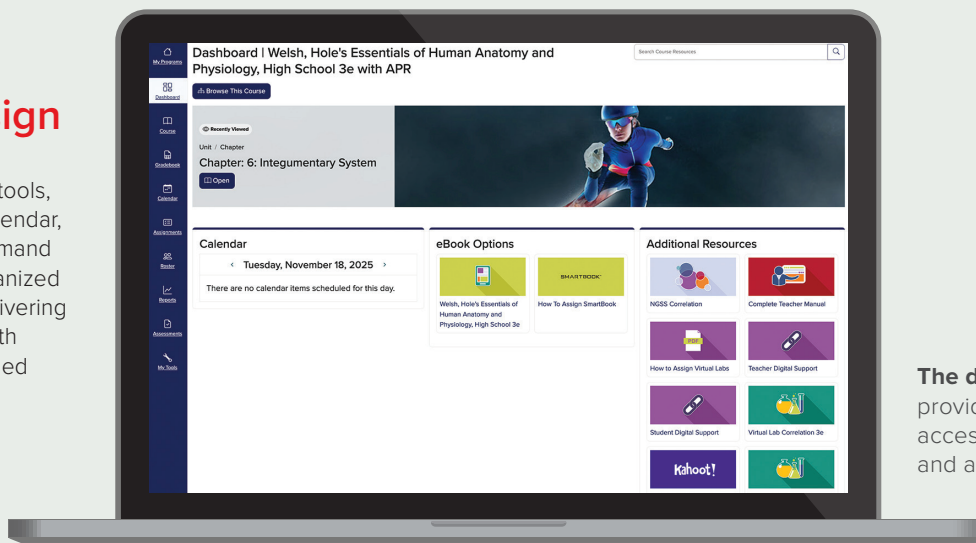
Personalized, Adaptive, and Dynamic Digital Resources

Our digital solutions are enriched with multimedia content including videos, animations, and simulations that enhance the teaching and learning experience inside and outside of the classroom.

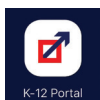
Authored by the world's leading subject matter experts and organized at the chapter level, the resources provide students with multiple opportunities to apply their understanding and master course content. Teachers can save time, customize lessons, monitor student progress, and make data-driven decisions in the classroom with flexible, easy-to-navigate instructional tools.

Intuitive Design

The digital dashboard aggregates the course tools, eBook, assignments calendar, correlations, and on-demand support. Content is organized at the chapter level, delivering seamless integration with the text for a truly blended learning experience.



The dashboard provides one-click access to content and assignments.



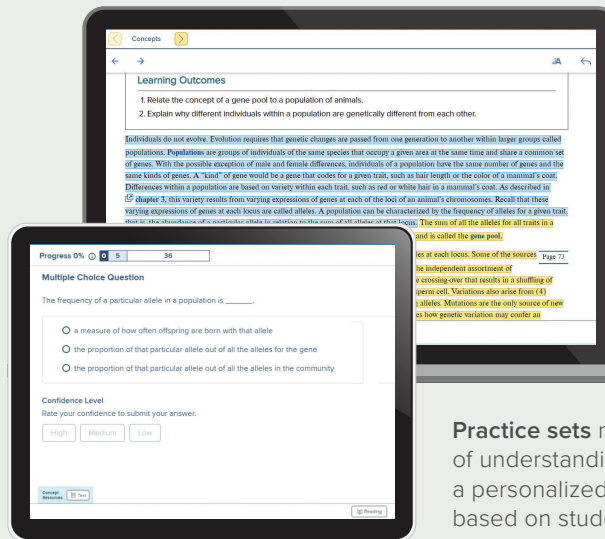
Mobile Ready

With the McGraw Hill K-12 Portal App, students can access their content anytime, on any device, with or without internet access.

Adaptive Study Tools

SMARTBOOK® is an online adaptive study tool. Its interactive features engage students and personalize the learning experience with self-guided tools that:

- Assess a student's proficiency and knowledge.
- Track which topics have been mastered.
- Identify areas that need more study.
- Improve reading comprehension by highlighting key content that needs additional study.
- Present focused content specific to the student's individual needs.



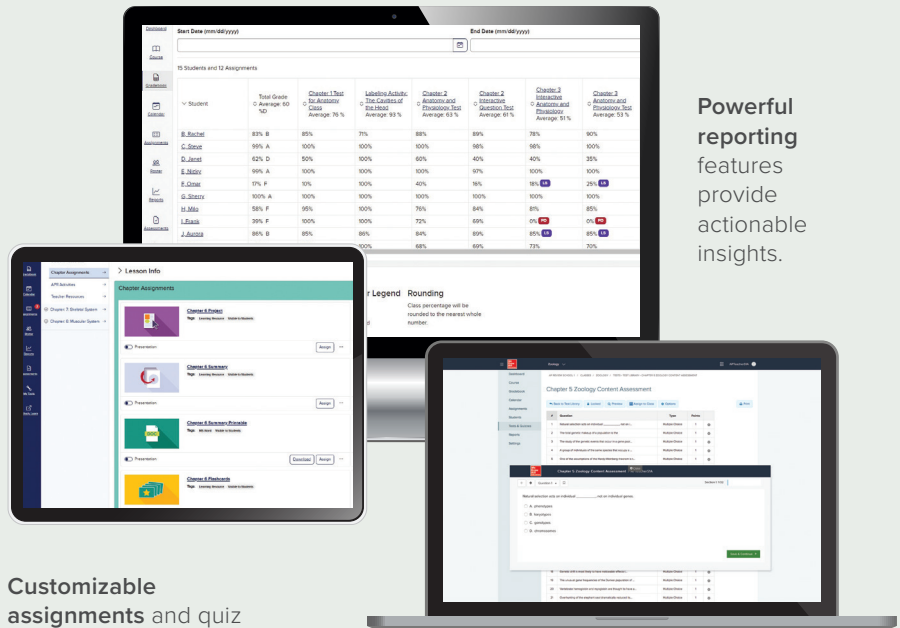
Highlighted content continuously adapts to show what students have been assigned in yellow and what requires further study in blue.

Practice sets measure depth of understanding and present a personalized learning path based on student responses.

Teacher Resources

Teachers have access to *SmartBook*—an interactive, adaptive eBook—plus a wealth of customizable chapter resources and powerful gradebook tools. Resources include:

- Online *Teacher Manual* with chapter outlines, teaching suggestions, reading strategies, and pacing guides.
- Student performance reports to help teachers identify gaps, make data-driven decisions, and adjust instruction.
- Customizable PowerPoint presentations.
- Labeled diagrams, visual aids, animations, and additional ideas.



Powerful reporting features provide actionable insights.

Customizable assignments and quiz banks provide automated grading that populates easy-to-read reports.

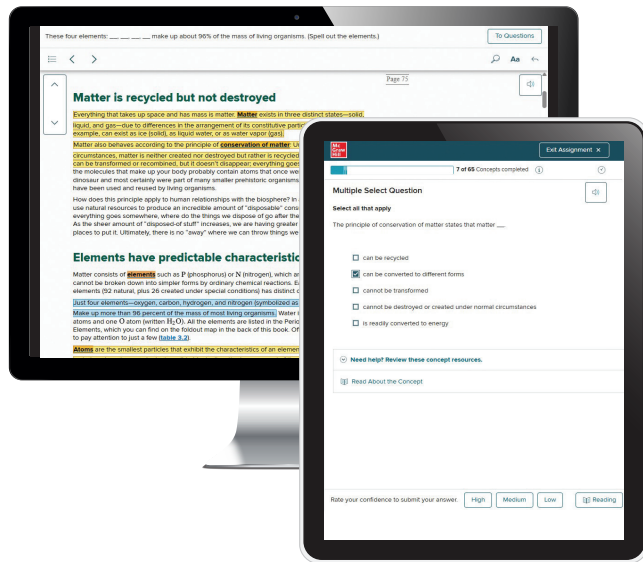


Harness technology to unlock success. Visit My.MHEducation.com

See page 11 for access information.

Adaptive Learning with SmartBook®

SmartBook delivers personalized, adaptive learning tailored to each student's individual needs by pinpointing knowledge gaps and focusing instruction on the concepts that require additional study. Teachers can assign a specific chapter, topic, or concept and access advanced reporting features with actionable insights to inform in-class instruction.



For Students

More Personalized. More Productive. More Accessible.

As students move through the material, multiple data points are captured to sequence and pace individual instruction.

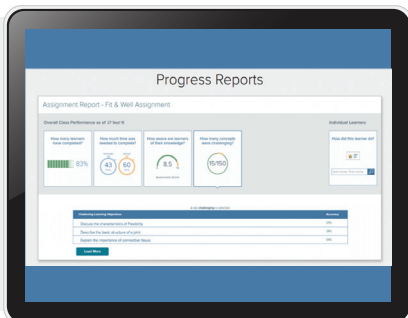
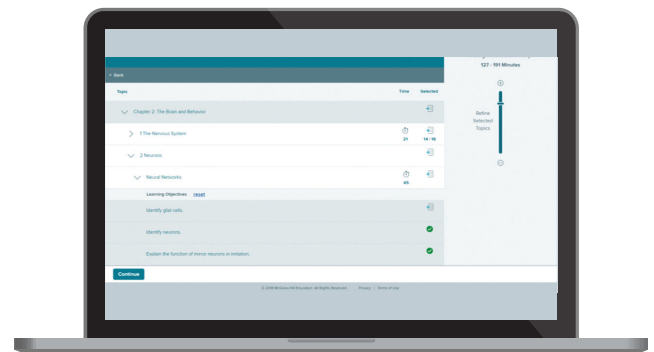
- **Focused Instruction:** Yellow highlights help students easily identify their assigned learning concepts.
- **Targeted Remediation:** Blue highlights bring focus to the contents and concepts that require additional study.
- **Meaningful Practice:** Practice sets with instant feedback allow students to ask for guidance and rate their confidence level.
- **Recharged Learning:** Students can access previously completed assignments with personalized recommendations.
- **Mobile Ready:** Assignments are accessible both online and offline with the *ReadAnywhere*® app.

For Teachers

More Control. More Prepared. More Actionable.

Teachers can organize assignments to suit their students' needs and align to their course outcomes while easily tracking student progress.

- **Flexible Assignments:** Assign homework down to the sub-topic level and time-on-task.
- **Manageable Content:** Assign content across multiple chapters to make connections between chapters, topics, and concepts.
- **Results-Based Support:** Provide personalized review assignments that target each student's areas of weakness.
- **Actionable Reports:** Advanced reporting features track individual and class progress with data-driven insights.



"Using *SmartBook* has been a game changer! It is like having a co-teacher! I can **see** how much they read. I can **see** how much they comprehended! I can **see**, specifically, what challenging concepts exist. Students can **see** their progress. Students can **see** that they are being held accountable in a much more realistic and targeted manner. Students are much more engaged in the class and better prepared to interact with a deeper level of academic conversation."

— Marion Chase
Instructional Coach and AP Teacher

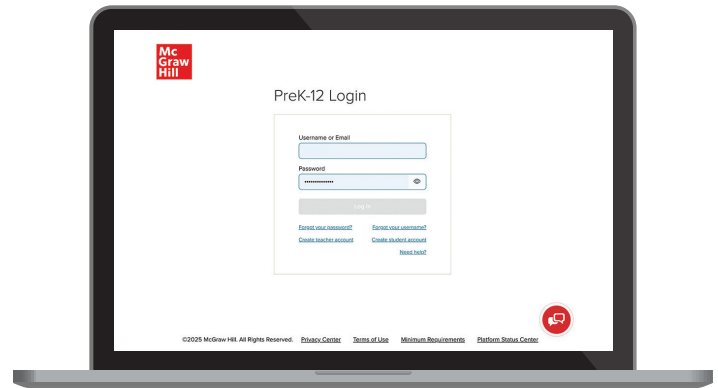
Take a Tour and Explore

Use this guide to help you get familiar with a variety of digital tools, resources, and support to meet the needs of your classroom and students.

Digital Experience

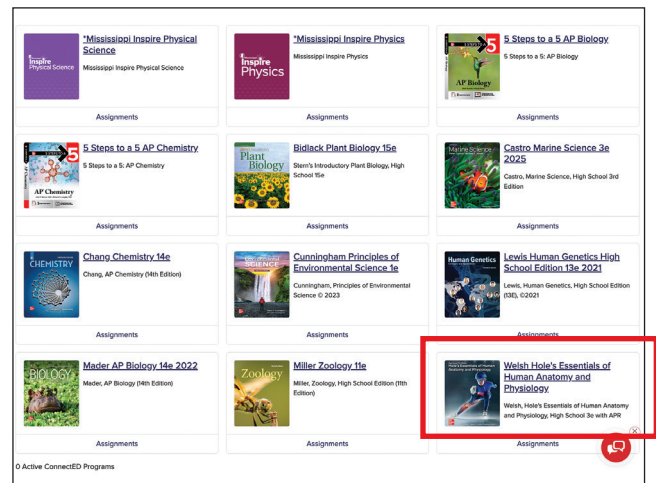
Log in to my.mheducation.com using the credentials below.

To request a username and password visit:
mheducation.com/mississippi



Locate and click on the course you wish to review.

Note: All AP and Electives courses function similarly. You can explore any title within the demo account.

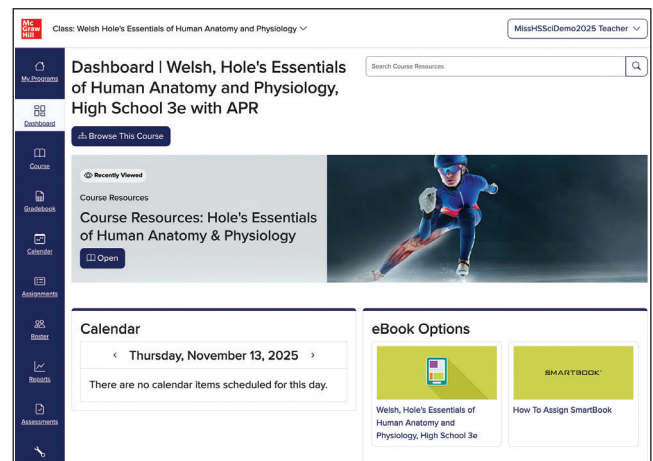


Your Course Dashboard

This is the Digital Dashboard. It's your home base for resources such as:

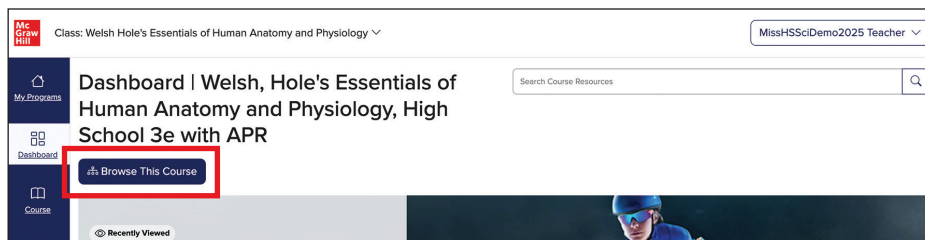
- Full Teacher Manual
- Quick eBook Access
- Correlations*
- AP Course and Exam Description**
- Digital Teacher Support
- Digital Student Support

* For applicable courses
**For AP courses only



Browse Your Course

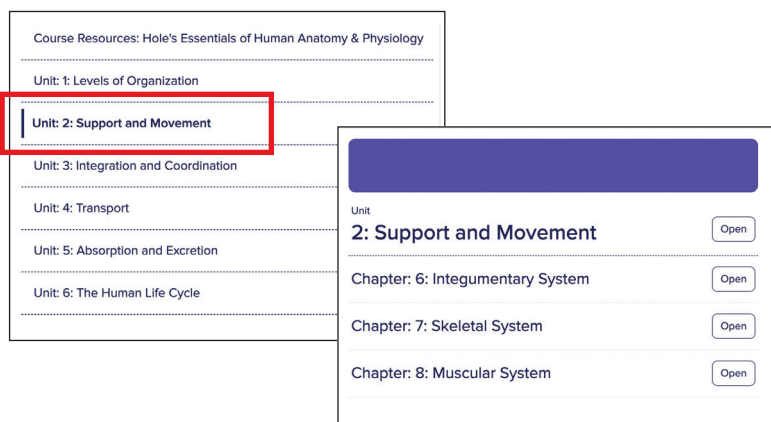
Click **Browse this Course** to expand the menu and explore units, chapters, assignments, activities, assessments, and more.



Browse Electives

Navigate to a unit and click the arrow to drill down to the unit's chapters.

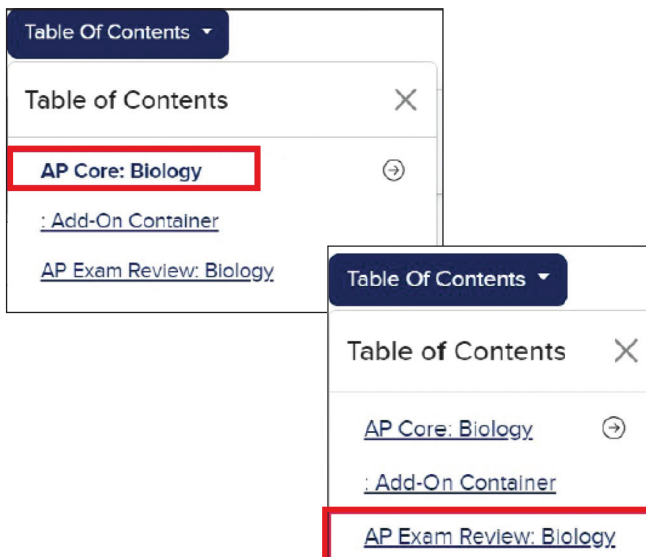
Select a chapter to review the chapter-level resources. If the course is organized at the chapter-level only.



Browse Advanced Placement

Click the arrow next to **AP Core** and select a unit and chapter to review.

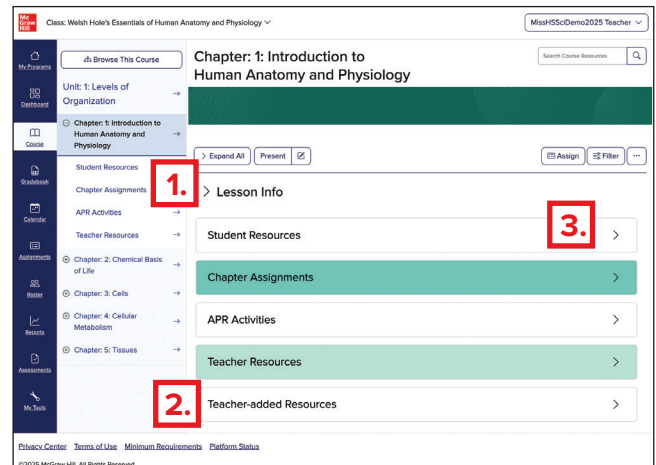
Alternatively, you can select **AP Exam Review** to preview the complete AP Practice Exams or the Unit Reviews.



Browse Instructional Resources

Selecting a chapter will take you to the **Chapter Landing Page**.

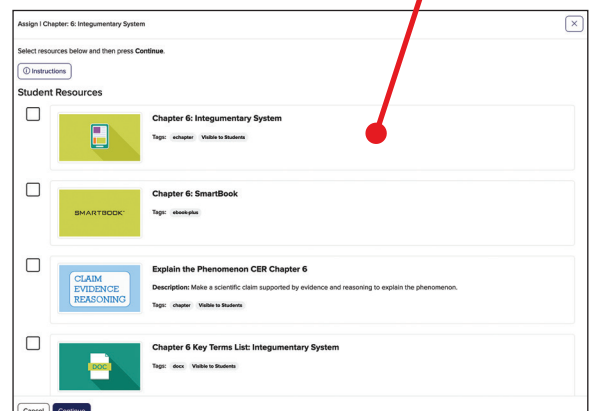
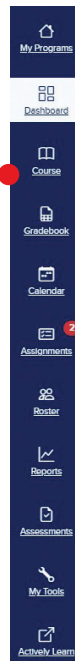
1. Click on the **Lesson Info** and use the tabs to explore Overviews, Pacing, Instructional Strategies, Suggested Assignments, and Benchmarks.
2. Your own materials can be uploaded and assigned to students in **Teacher-added Resources**.
3. The arrows to the right open to reveal **Student Resources**, **Chapter Assignments**, and **Teacher Resources**.



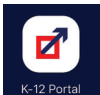
Assign Resources

Click on the tile to preview the resource or click **Assign** to open the course calendar and access options for assigning.

As you navigate your program, the Program Menu is always visible at the left side of the screen to help you navigate quickly to the **Gradebook**, **Calendar**, **Assignments**, **Roster**, **Reports**, **Actively Learn**, and **Assessments**.



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