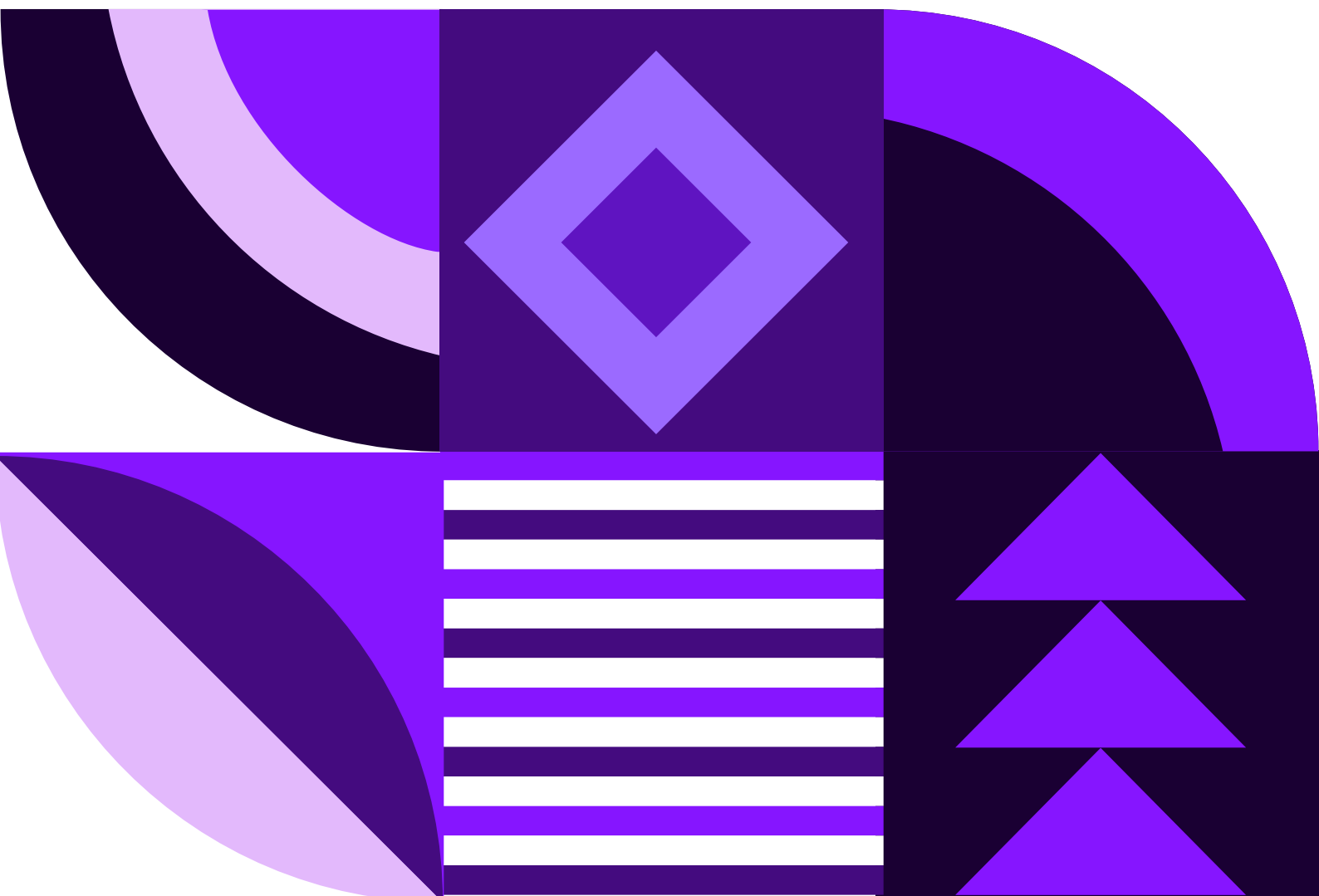


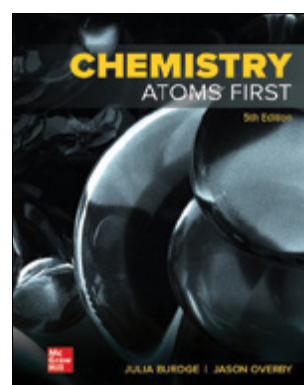
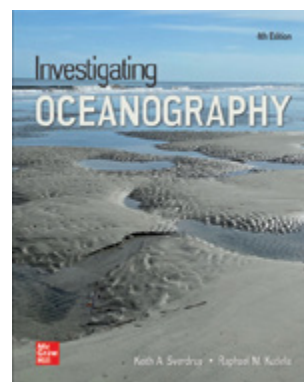
PreK-12 Asia Catalog

SCIENCE 2024



NEW

Check out the
new editions to
our Advanced
Placements titles!



New Addition to our Science Catalog!

The number 1 choice for AP teachers: 5 Steps to a 5

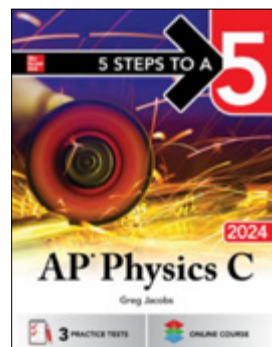
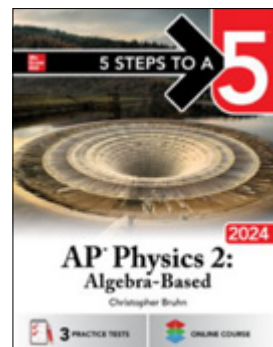
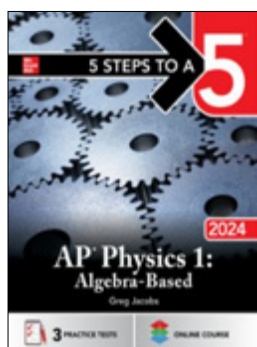
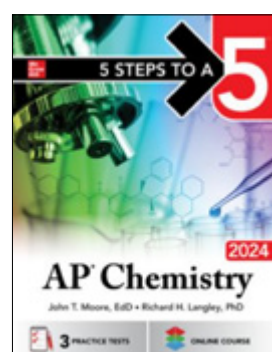
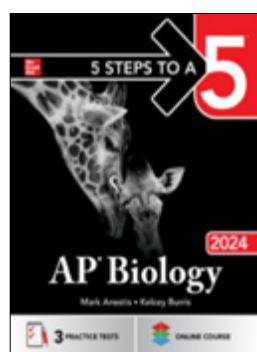


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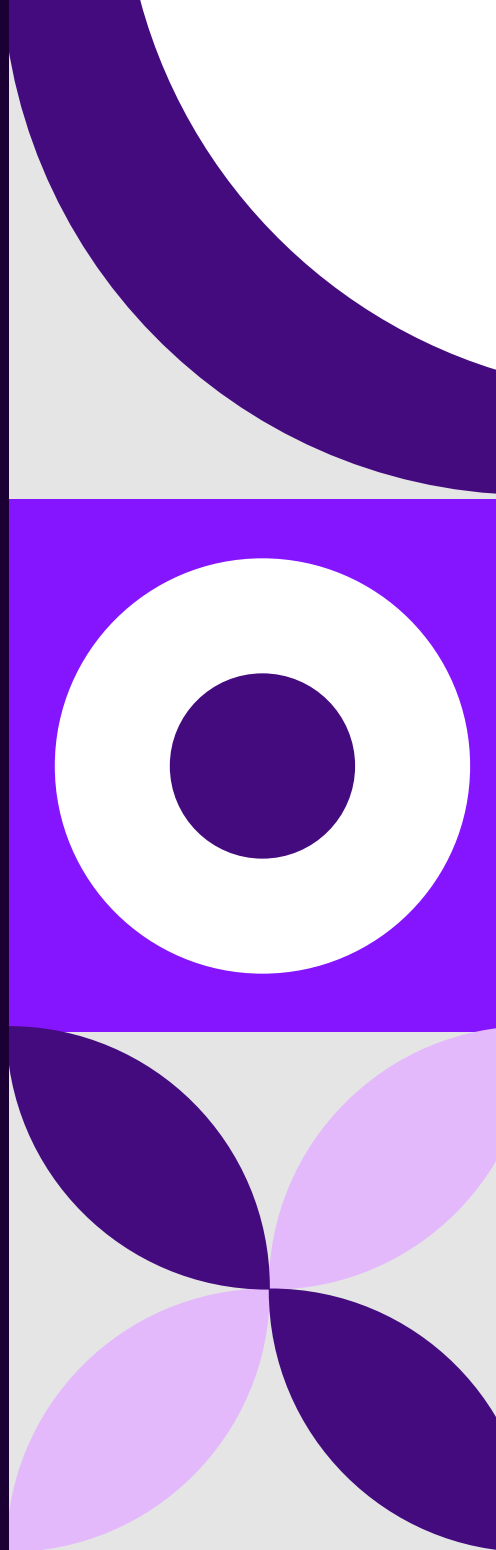
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Level Chart

PreKindergarten to Grade 5

		Kindergarten		Elementary						Secondary					
Title \ Grade	Grade	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Inspire Science Pre K															
Inspire Science K-5															

Grade 6 to 8

		Kindergarten		Elementary						Secondary					
Title \ Grade	Grade	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
LearnSmart															
McGraw Hill Science Interactives															
Inspire Science 6-8															
Inspire Science 6-8 Integrated															
Inspire Science: Life, Inspire Science: Physical Science, and Inspire Science: Earth & Space															
Integrated iScience, Earth & Space iScience, Life iScience, and Physical iScience															

Grade 9 to 12

		Kindergarten		Elementary						Secondary					
Title \ Grade	Grade	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Inspire Science High School Series															
Inspire Biology															
Inspire Chemistry															
Inspire Physics															
Inspire Earth Science															
Inspire Physical Science															
Inspire Physical Science with Earth															



Level Chart

Grade 9 to 12

Title \ Grade	Kindergarten		Elementary						Secondary					
	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Glencoe High School Science Series														
Glencoe Biology														
Glencoe Chemistry: Matter and Change														
Glencoe Physics: Principles & Problems														
Glencoe Earth Science: Geology, the Environment, and the Universe														
Glencoe Physical Science														
Glencoe Physical Science with Earth Science														

Advanced Placement

Title \ Grade	Kindergarten		Elementary						Secondary					
	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Hole's Human Anatomy & Physiology, 16 edition														
Hole's Human Anatomy & Physiology, High School, 2 edition														
Biology, Mader, 14 edition														
Biology, Raven, 12 edition														
Stern's Introductory Plant Biology, 14 edition														
Marine Science, 2 edition														
Environmental Science: A Global Concern, 15 edition														



Title \ Grade	Kindergarten		Elementary						Secondary					
	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Environmental Science: A Study of Interrelationship, Mader, 16 edition														
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Chemistry: Atoms First 4 edition														
College Physics, 5 edition														
The Physics of Everyday Phenomena, 10 edition														



Level Chart

Title \ Grade	Kindergarten		Elementary						Secondary					
	PreK	GK	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Integrated Science, 8 edition														
Explorations: An Introduction to Astronomy, 9 edition														
Inquiry Into Life, 16 edition														
The Good Earth: Introduction to Earth Science, 5 edition														
Ecology: Concepts and Applications, 8 edition														
Physical Geology, 16 edition														
Exploring Geology, 5 edition														
5 Steps to A 5 Series														
High School Equivalency Test; GED, HiSET® / TASC														
Custom Solution														
Online Professional Learning														
Create														



Inspire Science

Early Learners

Inspire Science Early Learners brings PreK and Transitional Kindergarten (TK) to life with hands-on activities that build on the experiences and curiosity of students.

Social and Emotional Learning

Each module and lesson include embedded strategies and reminders that instill Social and Emotional Learning (SEL) skills, teaching early learners to share their materials, their ideas, and their feelings.

Superior Instructional Design

- Lessons and modules begin with investigating a phenomenon.
- Hands-on, real-world activities heighten student interest.
- Cross-curricular tasks help students explain what they've learned.
- Evaluate Modules engage students with STEM projects.
- Summative assessments measure student learning.
- Students revisit the module phenomenon in the Module Wrap-Up.
- Differentiated instruction meets the needs of all students.
- Formative assessments guide teacher instruction.

Pathways for PreK & Transitional Kindergarten

Learning Pathways provide differentiated instruction. Developmentally appropriate lessons are scaffolded to address the needs of all learners. Guidance includes differentiation for activities, learning outcomes, and assessment.

Three-Year Olds and Extra Support:

Provides open-ended opportunities for young students to explore their world and begin to develop scientific thinking skills.

Transitional Kindergarten and Advanced Learners:

Builds on students' background knowledge, extends inquiry opportunities, and helps students apply scientific-thinking skills. Developmentally appropriate lessons are designed to prepare students for kindergarten NGSS.

Social and Emotional Learning and differentiated instruction inspire learning in every student.



SIENNA
NUTRITIONIST



WALKTHROUGH

<https://bit.ly/3LSIs5b>

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

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.

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.



Grade K



Grade 1



Grade 2



Grade 3



Grade 4



Grade 5



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.

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

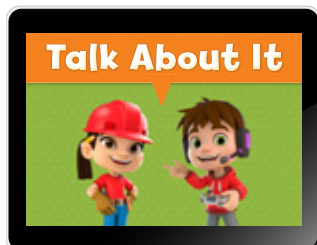
Unleash student curiosity with real-world, Inspire Science Investigator articles. These informational text articles introduce students to real-world science and engineering and are packed with stunning imagery, dynamic graphs, tables, maps, and close reading questions that are sure to capture student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



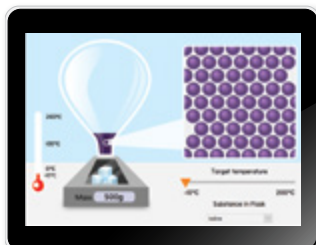


Different Types of Online Resources

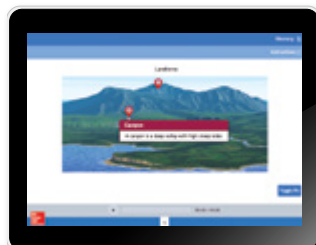
Ready-to-Go Lesson Presentations



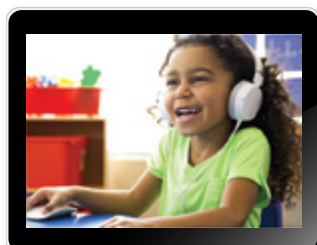
Simulations



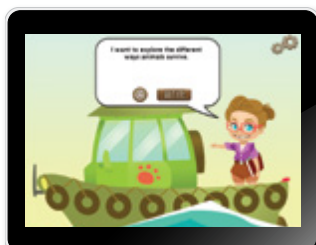
Interactives



Science Songs



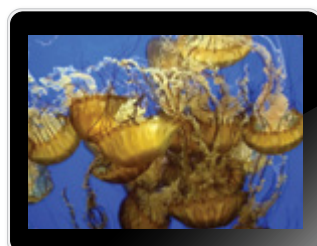
Games



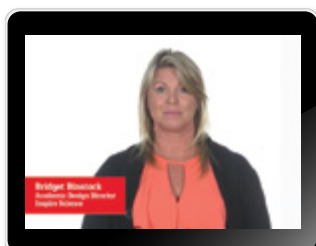
eAssessment



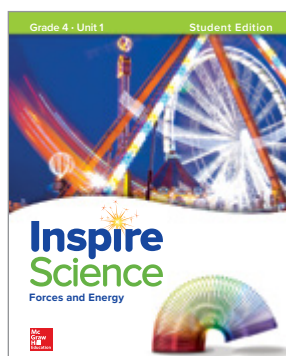
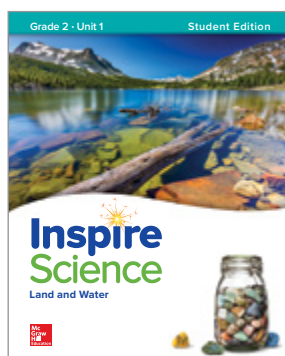
Videos



Professional Development



Inspire Science Investigator



CHLOE
Carpenter

RILEY
Automotive Engineer



GRADE K TABLE OF CONTENTS

Unit 1 LIVING THINGS MODULE Plants and Animals Lesson 1 Living and Nonliving Lesson 2 Plant and Animal Survival Lesson 3 Places Plants Live Lesson 4 Places Animals Live Unit 2 OUR CHANGING WORLD MODULE Changes to the Environment Lesson 1 Plants Change Their Environment Lesson 2 Animals Change Their Environment Lesson 3 People Change Their Environment MODULE Protect Earth Lesson 1 Natural Resources Lesson 2 Reduce, Reuse, Recycle	Unit 3 WEATHER AND THE SUN MODULE Weather Lesson 1 Describe Weather Lesson 2 Weather Patterns Lesson 3 Forecast Weather Lesson 4 Severe Weather MODULE The Sun and Earth's Surface Lesson 1 Sunlight on Earth's Surface Lesson 2 Protection from the Sun Unit 4 MAKE THINGS MOVE MODULE Forces and Motion Lesson 1 Pushes and Pulls Lesson 2 Direction and Speed Lesson 3 When Objects Collide
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GRADE 1 TABLE OF CONTENTS

Unit 1 ALL ABOUT PLANTS MODULE Plants Structures and Functions Lesson 1 Plant Parts Lesson 2 Functions of Plant Parts MODULE Plant Parents and Their Offspring Lesson 1 Plants and Their Parents Lesson 2 Plant Survival Unit 2 ANIMALS AND HOW THEY COMMUNICATE MODULE Animals Parents and their Offspring Lesson 1 Animal Structures Lesson 2 Functions of Animal Structures Lesson 3 Animals and Their Parents Lesson 4 Animal Behaviors	MODULE Communication Lesson 1 Animal Communication Lesson 2 Sound Unit 3 LIGHT AND SHADOWS MODULE See Objects Lesson 1 Light Lesson 2 Light and Materials Lesson 3 Light Uses Unit 4 SKY PATTERNS MODULE Observe the Sky Lesson 1 Objects in the Sky Lesson 2 Day and Night Patterns Lesson 3 Patterns During the Year
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GRADE 2 TABLE OF CONTENTS

Unit 1 LAND AND WATER

MODULE Earth's Landscape

- Lesson 1 Local Landscapes
- Lesson 2 Land and Earth
- Lesson 3 Water on Earth

Unit 2 PROPERTIES OF MATERIALS

MODULE Describe Materials

- Lesson 1 Investigate Materials
- Lesson 2 Test and Analyze Materials

MODULE Change to Materials

- Lesson 1 Build with Materials
- Lesson 2 Materials Can Change

Unit 3 EARTH'S CHANGING LANDSCAPE

MODULE Landscape Changes

- Lesson 1 Slow Changes to Earth's Landscape
- Lesson 2 Quick Changes to Earth's Landscape
- Lesson 3 Ways to Slow Landscape Changes

Unit 4 LIVING THINGS AND HABITATS

MODULE Plants in Landscapes

- Lesson 1 Needs of Plants
- Lesson 2 Plants Depend on Animals

MODULE Living Things in Habitats

- Lesson 1 Local Habitats
- Lesson 2 Land Habitats
- Lesson 3 Water Habitats



GRADE 3 TABLE OF CONTENTS

Unit 1 FORCES AROUND US

MODULE Forces and Motion

- Lesson 1 Motion
- Lesson 2 Forces Can Change Motion

MODULE Electricity and Magnetism

- Lesson 1 Electricity and Designing Solutions
- Lesson 2 Magnetism and Designing Solutions

Unit 2 LIFE CYCLES AND TRAITS

MODULE Plants

- Lesson 1 Plant Life Cycles
- Lesson 2 Plant Traits

MODULE Animals

- Lesson 1 Animals Life Cycles
- Lesson 2 Animal Traits
- Lesson 3 Animal Group Survival

Unit 3 DIFFERENT ENVIRONMENTS

MODULE Survive the Environment

- Lesson 1 Survival of Organisms
- Lesson 2 Adaptations and Variations

MODULE Change the Environment

- Lesson 1 Fossils
- Lesson 2 Changes Affect Organisms

Unit 4 OBSERVING WEATHER

MODULE Weather Impacts

- Lesson 1 Weather Patterns
- Lesson 2 Weather and Seasons
- Lesson 3 Natural Hazards and the Environment
- Lesson 4 Prepare for Natural Hazards



GRADE 4 TABLE OF CONTENTS

Unit 1 FORCES AND ENERGY

MODULE Energy and Motion

- Lesson 1 Forces and Motion
- Lesson 2 Speed and Energy
- Lesson 3 Energy Transfer in Collisions

Unit 2 USING ENERGY

MODULE Types of Energy

- Lesson 1 Sound and Light
- Lesson 2 Electricity
- Lesson 3 Heat

MODULE Natural Resources in the Environment

- Lesson 1 Energy from Nonrenewable Resources
- Lesson 2 Energy from Renewable Resources
- Lesson 3 Impact of Energy Use
- Lesson 4 Design Energy Solutions

Unit 3 OUR DYNAMIC EARTH

MODULE Earth and its Changing Features

- Lesson 1 Map Earth's Features
- Lesson 2 Evidence from Rocks and Fossils
- Lesson 3 Changes in Landscapes Over Time

MODULE Earthquakes

- Lesson 1 Map Earthquake
- Lesson 2 Model Earthquake Movement
- Lesson 3 Reduce Earthquake Damage

Unit 4 INFORMATION PROCESSING AND LIVING THINGS

MODULE Structures and Functions of Living Things

- Lesson 1 Structures and Functions of Plants
- Lesson 2 Structures and Functions of Animals

MODULE Information Processing and Transfer

- Lesson 1 Information Processing in Animals
- Lesson 2 Role of Animals' Eyes
- Lesson 3 Information Transfer



GRADE 5 TABLE OF CONTENTS

Unit 1 INVESTIGATE MATTER

MODULE Matter

- Lesson 1 Identify Properties of Materials
- Lesson 2 Mixtures and Solutions
- Lesson 3 Physical and Chemical Changes
- Lesson 4 Solids, Liquids, and Gases

Unit 2 ECOSYSTEMS

MODULE Matter in Ecosystems

- Lesson 1 Plant Survival
- Lesson 2 Interactions of Living Things
- Lesson 3 Role of Decomposers

MODULE Energy in Ecosystems

- Lesson 1 Earth's Major Systems
- Lesson 2 Cycles of Matter in Ecosystems
- Lesson 3 Energy Transfer in Ecosystems

Unit 3 EARTH'S INTERACTIVE SYSTEMS

MODULE Earth's Water System

- Lesson 1 Water Distribution on Earth
- Lesson 2 Human Impact on Water Resources
- Lesson 3 Effects of the Hydrosphere

MODULE Earth's Other Systems

- Lesson 1 Effects of the Geosphere
- Lesson 2 Effects of the Atmosphere
- Lesson 3 Effects of the Biosphere

Unit 4 EARTH AND SPACE PATTERNS

MODULE Earth's Patterns and Movement

- Lesson 1 The Role of Gravity
- Lesson 2 Earth's Motion

MODULE Earth and Space

- Lesson 1 Earth's Place in Space
- Lesson 2 Stars and Their Patterns

Inspire Science



LearnSmart – It's Proven

At McGraw Hill, 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.

Ensure students understand and retain concepts.

As students learn concepts, those learned concepts can rotate in and out of the cycle as new ones enter until all concepts have been completed. Incorporating new and familiar concepts together within this rotation strengthens concept retention through the application of spaced practice.

Easy-to-use lessons for you and your students.

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

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 and the progress of the whole class. Teachers can focus on what 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.





McGraw Hill Science *Interactives*

Innovative Activities for Digital Learning

Introducing *Interactives*: exciting, virtual science experiences for your middle and high school students. McGraw Hill *Interactives* are engaging labs, simulations, and digital experiments that will bring your distance learning classroom to life. These fully online resources allow students to experience new scientific ideas in dramatic, visually appealing demonstrations.

What are McGraw Hill Science Interactives?

These simulations help students learn the practical and conceptual skills needed to excel no matter where they are learning. *Interactives* provide experiences that range from demonstrations students could execute in a lab—like kinetic energy transformations—to unique at-home experiences that present models such as natural selection.

Interactives routinely provide feedback to students to guide their learning and save you time.



Earth Science: Earth's Atmosphere

Benefits of *Interactives*

- Available 24/7 for remote or classroom learning—no lab space required.
- Easy-to-follow, on-screen instructions.
- Labs can be previewed before assigning them.
- Real-world scenarios are presented in a digital format.

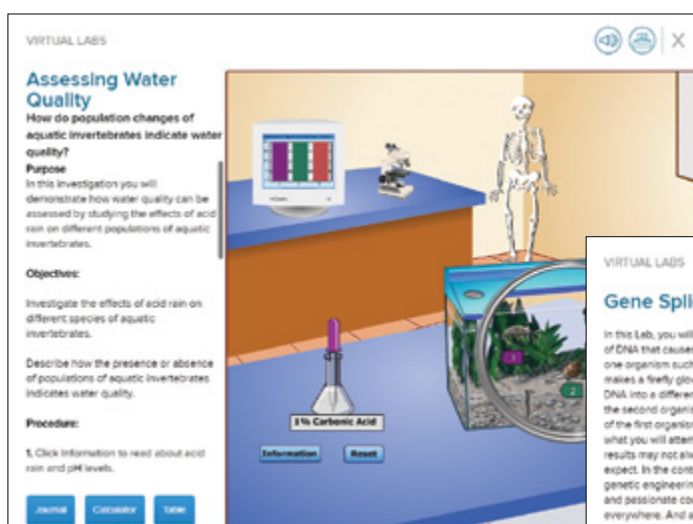


Physics: Doppler Effect

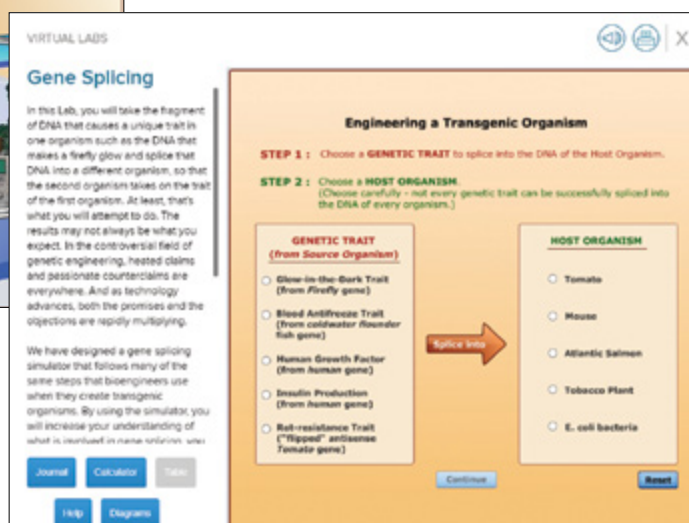


How Do I Use Science *Interactives*

In the Classroom	In the Classroom
Assign <i>Interactives</i> as preparation for classroom lab work to familiarize students with tools, procedures, and foundational concepts.	Assign <i>Interactives</i> before the lesson to engage students in the topic they are about to study.
Enhance in-class lessons with dynamic labs to extend concepts beyond the limitations of the classroom.	Use <i>Interactives</i> as a teaching tool during synchronous instruction to explicitly teach challenging concepts in an engaging way.
Assign <i>Interactives</i> after a lesson to solidify new concepts or assess student understanding.	Assign <i>Interactives</i> after a lesson to allow students to expand upon and demonstrate the new ideas they've learned.



Earth Science: Assessing Water Quality



Biology: Gene Splicing

Affordable Purchasing Options for Expanded Learning

Grade Level	Number of Labs	Topics	Type
Middle School	74	Earth Science Life Science Physical Science	1 Year Subscription: 35 Students + 1 Teacher
High School	83	Biology Chemistry Physics Earth Science	1 Year Subscription: 35 Students + 1 Teacher



MIDDLE SCHOOL

EARTH SCIENCE TABLE OF CONTENTS

- How do meteorologists predict the weather?
- Climate
- How can water pollution be detected?
- Assessing water quality
- What are the advantages of alternative energy sources?
- How much energy is used in a house?
- The Nature of Science
- Water erosion and deposition
- Where do most earthquake epicenters and volcanoes occur?
- Volcanoes
- How do seismograph stations help determine an earthquake's epicenter?
- What was Earth like throughout geologic time?
- How much landfill space can be saved in a year by recycling?

LIFE SCIENCE TABLE OF CONTENTS

- How is energy transferred through a community of organisms?
- What strategies are involved in solving a science problem?
- Model Ecosystems
- Energy in a Cell
- Population Biology
- How do introduced species affect the environment?
- How can locations be identified by their climates and topography?
- How can water pollution be detected?
- What are the advantages of alternate energy sources?
- How much energy is used in a house?
- How much landfill space can be saved in a year by recycling?
- Ecosystems, Organisms, and Trophic Levels
- How are living things classified into groups?
- Under what conditions do cells gain or lose water?
- How do the parts of the respiratory system work together?
- What factor affects the transpiration rate in a plant?
- What are the major bones in the human body?
- How does the body protect itself against foreign substances?
- What are some characteristics of waves?
- Virtual Pathology
- The Digestive and Endocrine Systems
- How are traits passed from parents to offspring?
- What are the functions of the parts of a flower?
- Which colors of the light spectrum are most important for plant growth?
- Punnett Squares
- Sex-Linked Traits
- Mealworm Behavior
- How are fish adapted to their environment?
- How are birds adapted to their habitat?
- DNA and Genes
- Gene Splicing
- Natural Selection
- Classifying Using Biotechnology
- Dino Dig
- How can natural selection be modeled?
- What factors affect the likelihood of hypertension?

PHYSICAL SCIENCE TABLE OF CONTENTS

- How does horizontal motion affect vertical motion?
- Rocket Sled
- Motion, Forces, and Simple Machines
- How is energy converted from one form to another?
- Roller Coaster
- Electric Circuits
- How do seismograph stations help determine an earthquake's epicenter?
- What is the electromagnetic spectrum?
- Ray Tracing for Mirrors
- Ray Tracing for Lenses
- Which colors of the light spectrum are most important for plant growth?
- How does thermal energy affect the state of a substance?
- Kinetic Theory
- Phase Changes
- Thermal Energy
- How does thermal energy affect the state of a substance?
- Properties of Elements
- Understanding Matter
- How is energy transferred through a community of organisms?
- How much landfill space can be saved in a year by recycling?
- What factors influence the pressure of a gas in a container?
- How can molecular models be built?
- What are the relationships between kinetic energy and potential energy?
- What are some characteristics of waves?
- How are voltage, current, and resistance related?



HIGH SCHOOL

BIOLOGY TABLE OF CONTENTS

- | | |
|---|---------------------------------------|
| • Model Ecosystems | • Natural Selection |
| • Ecosystems, Organisms, and Trophic Levels | • Classifying Using Biotechnology |
| • Communities and Ecosystems | • Biotechnology Knocking Out Genes |
| • Population Biology | • Plant Transpiration |
| • Assessing Water Quality | • Classifying Arthropods |
| • Enzyme-Controlled Reactions | • Earthworm Dissection |
| • Cellular Pursuit | • Mammals |
| • Energy in a Cell | • Mealworm Behavior |
| • Punnett Squares | • Muscle Stimulation |
| • Sex-Linked Traits | • Blood Pressure |
| • DNA and Genes | • The Digestive and Endocrine Systems |
| • Gene Splicing | • Virtual Pathology |
| • Dino Dig | |

CHEMISTRY TABLE OF CONTENTS

- | | |
|--------------------------------|--------------------------|
| • Density | • Kinetic Theory |
| • Decoding the Periodic Table | • Gas Laws |
| • Electron Configuration | • Salts and Solubility |
| • Periodic Properties | • Colligative Properties |
| • Half-Life | • Calorimetry |
| • Ionic Compounds | • Phase Changes |
| • Molecular Shapes | • Reaction Rates |
| • Covalent Compounds | • Titration |
| • Balancing Chemical Equations | • Redox Titration |
| • Moles, Mass, and Molecules | • Electrochemical Cells |
| • Limiting Reactants | • Functional Groups |

PHYSICS TABLE OF CONTENTS

- | | |
|-------------------------|------------------------------|
| • Accelerated Motion | • Doppler Effect |
| • Rocket Sled | • Ray Tracing for Mirrors |
| • Inclined Plane | • Snell's Law |
| • Soccer Kick | • Ray Tracing for Lenses |
| • Universal Gravitation | • Double-Slit Interference |
| • Newton's Cannon | • Circuits and Ohm's Law |
| • Hover Gliders | • Electric Circuits |
| • Roller Coaster | • Charge in a Magnetic Field |
| • Kinetic Theory | • Photoelectric Effect |
| • Phase Changes | • Half-Life of an Element |

EARTH SCIENCE TABLE OF CONTENTS

- | | |
|--------------------------------|---|
| • The Nature of Science | • Oceanography |
| • Properties of Elements | • Volcanoes |
| • The Periodic Table | • Earthquake |
| • Mineral Properties | • Views of Earth |
| • Water Erosion and Deposition | • Lunar Phases |
| • Earth's Atmosphere | • Ocean Motion |
| • The Atmosphere in Motion | • The Solar System |
| • Climate | • Star Composition and H-R Diagrams Placement |



Inspire Science

Inspire
Science

WALKTHROUGH

<https://bit.ly/35p5bVN>

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.



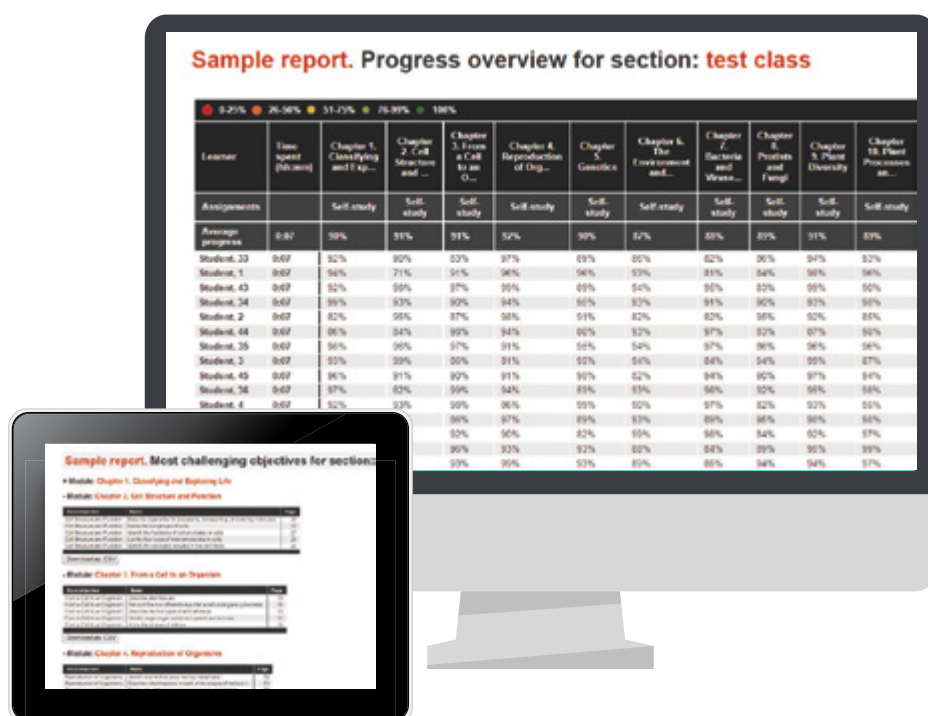
Inspire Investigation

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.

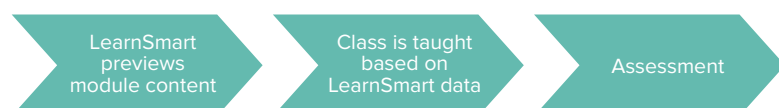
Efficient reporting tools help you maximize teaching time.

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)

GRADE 6 TABLE OF CONTENTS



Unit 1 LIFE: STRUCTURE & FUNCTION	Lesson States of Matter
MODULE Cells and Life	Lesson Thermal Energy Transfers
Lesson Exploring Life	Lesson Thermal Energy Conductivity
Lesson Cell Structure and Function	MODULE The Water Cycle
MODULE Body Systems	Lesson Water in the Atmosphere
Lesson Levels of Organization	Lesson Water on Earth's Surface
Lesson Structure and Support	MODULE Weather and Climate
Lesson Obtaining Energy and Removing Waste	Lesson Solar Energy on Earth
Lesson Moving Materials	Lesson Atmospheric and Oceanic Circulation
Lesson Control and Information Processing	Lesson Weather Patterns
Unit 2 REPRODUCTION OF ORGANISMS	Lesson Climates of Earth
MODULE Reproduction of Organisms	Unit 4 MAKE THINHUMAN IMPACT ON THE ENVIRONMENT
Lesson Inheritance	MODULE Human Impact on the Environment
Lesson Types of Reproduction	Lesson Impact on Land
Lesson Reproduction and Growth of Animals	Lesson Impact on Water
Lesson Reproduction and Growth of Plants	Lesson Impact on the Atmosphere
Unit 3 ENERGY IN THE ATMOSPHERE	Lesson Impact on Climate
MODULE Energy and Matter	
Lesson Particles in Motion	



GRADE 7 TABLE OF CONTENTS



Unit 1 UNDERSTANDING MATTER

MODULE Classification and States of Matter

- Lesson Energy and States of Matter
- Lesson Changes in Temperature
- Lesson Changes in Pressure
- Lesson Molecular Structure

MODULE Matter: Properties and Changes

- Lesson Properties of Matter
- Lesson Property Changes in Chemical Reactions
- Lesson Energy Changes in Chemical Reactions

Unit 2 THE CHANGING EARTH

MODULE Dynamic Earth

- Lesson Moving Continents
- Lesson Development of a Theory
- Lesson Shaping Earth's Surface
- Lesson Changing Earth's Surface
- Lesson The Cycling of Earth's Materials

MODULE Natural Hazards

- Lesson Earthquakes
- Lesson Volcanoes
- Lesson Severe Weather

Unit 3 EARTH'S RESOURCES

MODULE Distribution of Earth's Resources

- Lesson Natural Resources
- Lesson Distribution of Resources
- Lesson Depletion of Resources

MODULE Materials Science

- Lesson Synthetic Technology
- Lesson Impacts of Synthetic Materials

Unit 4 INTERACTIONS WITHIN ECOSYSTEMS

MODULE Matter and Energy in Ecosystems

- Lesson Photosynthesis and Cellular Respiration
- Lesson Flow of Energy
- Lesson Cycling of Matter

MODULE Dynamic Ecosystems

- Lesson Resources in Ecosystems
- Lesson Interactions Within Ecosystems
- Lesson Changing Ecosystems

MODULE Biodiversity in Ecosystems

- Lesson Benefits of Biodiversity
- Lesson Maintaining Biodiversity

GRADE 8 TABLE OF CONTENTS



Unit 1 CHANGE OVER TIME

MODULE Geologic Time

- Lesson Analyzing the Rock and Fossil Records
- Lesson Building a Time Line

MODULE Natural Selection and Adaptations

- Lesson How Traits Change
- Lesson The Theory of Evolution by Natural Selection
- Lesson Artificial Selection

MODULE Evidence of Evolution

- Lesson Fossil Evidence of Evolution
- Lesson Biological Evidence of Evolution

Unit 2 ENERGY AND MOTION

MODULE Forces and Motion

- Lesson Position and Motion
- Lesson Force and Acceleration
- Lesson Force Pairs
- Lesson Gravitational Force

MODULE Mechanical Energy

- Lesson Kinetic Energy
- Lesson Potential Energy
- Lesson Conservation of Energy

MODULE Electromagnetic Forces

- Lesson Magnetic Forces
- Lesson Electric Forces
- Lesson Simple Circuits

- Lesson Electromagnetism

Unit 3 UNDERSTANDING WAVES

MODULE Introduction to Waves

- Lesson Wave Properties
- Lesson Mechanical Wave Interactions

MODULE Light

- Lesson How Light Travels
- Lesson Light Reflection and Mirrors
- Lesson Light Reflection and Lenses
- Lesson Color of Light

MODULE Information Technologies

- Lesson Communicating with Signals
- Lesson Modern Communication with Digital Signals

Unit 4 HUMANS AND THEIR PLACE IN THE UNIVERSE

MODULE Earth and Human Activity

- Lesson Human Population Trends
- Lesson People and the Environment

MODULE The Sun-Earth-Moon System

- Lesson Earth's Motion Around the Sun
- Lesson Lunar Phases
- Lesson Eclipses

MODULE Exploring the Universe

- Lesson Gravity and the Universe



Inspire Science

Inspire Science

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<https://bit.ly/35p5bVN>

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)

EARTH AND SPACE TABLE OF CONTENTS



Unit 1 EXPLORING SPACE		Lesson	Impact on the Atmosphere
MODULE The Sun-Earth-Moon System		Lesson	Impact on Climate
Lesson	Earth's Motion Around the Sun		
Lesson	Lunar Phases		
Lesson	Lunar Phases		
MODULE Exploring the Universe			
Lesson	Gravity and the Universe		
Lesson	The Solar System		
Unit 2 WATER AND CLIMATE			
MODULE The Water Cycle			
Lesson	Water in the Atmosphere		
Lesson	Water on Earth's Surface		
MODULE Weather and Climate			
Lesson	Solar Energy on Earth		
Lesson	Atmospheric and Oceanic Circulation		
Lesson	Weather Patterns		
Lesson	Climates of Earth		
Unit 3 IMPACTS ON THE ENVIRONMENT			
MODULE Human Impact on the Environment			
Lesson	Impact on Land		
Lesson	Impact on Water		
		Lesson	Impact on the Atmosphere
		Lesson	Impact on Climate
		MODULE Earth and Human Activity	
		Lesson	Human Population Growth
		Lesson	People and the Environment
		Unit 4 THE CHANGING EARTH	
		MODULE Geologic Time	
		Lesson	Analyzing the Rock and Fossil Records
		Lesson	Building a Time Line
		MODULE Dynamic Earth	
		Lesson	Moving Continents
		Lesson	Development of a Theory
		Lesson	Shaping Earth's Surface
		Lesson	Changing Earth's Surface
		Lesson	The Cycling of Earth's Materials
		MODULE Distribution of Earth's Resources	
		Lesson	Natural Resources
		Lesson	Distribution of Resources
		Lesson	Depletion of Resources
		MODULE Natural Hazards	
		Lesson	Earthquakes
		Lesson	Volcanoes
		Lesson	Severe Weather



LIFE SCIENCE TABLE OF CONTENTS



Unit 1 INTERACTIONS WITHIN ECOSYSTEMS

MODULE Matter and Energy in Ecosystems

- Lesson Photosynthesis and Cellular Respiration
- Lesson Flow of Energy
- Lesson Cycling of Matter

MODULE Dynamic Ecosystems

- Lesson Resources in Ecosystems
- Lesson Interactions Within Ecosystems
- Lesson Changing Ecosystems

MODULE Biodiversity in Ecosystems

- Lesson Benefits of Biodiversity
- Lesson Maintaining Biodiversity

Unit 2 LIFE: STRUCTURE AND FUNCTION

MODULE Cells and Life

- Lesson Exploring Life
- Lesson Cell Structure and Function

MODULE Body Systems

- Lesson Levels of Organization
- Lesson Structure and Support

- Lesson Obtaining Energy and Removing Waste
- Lesson Moving Materials
- Lesson Control and Information Processing

Unit 3 REPRODUCTION OF ORGANISMS

MODULE Reproduction of Organisms

- Lesson Inheritance
- Lesson Types of Reproduction
- Lesson Depletion of Resources
- Lesson Synthetic Technology
- Lesson Reproduction and Growth of Plants

Unit 4 CHANGE OVER TIME

MODULE Natural Selection and Adaptions

- Lesson How Traits Change
- Lesson The Theory of Evolution by Natural Selection
- Lesson Artificial Selection

MODULE Evidence of Evolution

- Lesson Fossil Evidence of Evolution
- Lesson Biological Evidence of Evolution

PHYSICAL SCIENCE TABLE OF CONTENTS



Unit 1 ENERGY AND MOTION

MODULE Forces and Motion

- Lesson Position and Motion
- Lesson Force and Acceleration
- Lesson How Traits Change
- Lesson Force Pairs
- Lesson Gravitational Force

MODULE Mechanical Energy

- Lesson Kinetic Energy
- Lesson Potential Energy
- Lesson Conservation of Energy

MODULE Electromagnetic Forces

- Lesson Magnetic Forces
- Lesson Electric Forces
- Lesson Simple Circuits
- Lesson Electromagnetism

Unit 2 UNDERSTANDING WAVES

MODULE Introduction to Waves

- Lesson Wave Properties
- Lesson Mechanical Wave Interactions

MODULE Light

- Lesson How Light Travels
- Lesson Light Reflection and Mirrors
- Lesson Light Refraction and Lenses

- Lesson Colour of Light

MODULE Information Technologies

- Lesson Communicating with Signals
- Lesson Modern Communication with Digital Signals

Unit 3 UNDERSTANDING MATTER

MODULE Energy and Matter

- Lesson Particles in Motion
- Lesson States of Matter
- Lesson Thermal Energy Transfers

MODULE Classification and States of Matter

- Lesson Energy and States of Matter
- Lesson Changes in Temperature
- Lesson State of Matter
- Lesson Molecular Structure

Unit 4 INTERACTIONS OF MATTER

MODULE Matter: Properties and Changes

- Lesson Properties of Matter
- Lesson Property Changes in Chemical Reactions

- Lesson Energy Changes in Chemical Reactions

MODULE Materials Science

- Lesson Synthetic Technology
- Lesson Impacts of Synthetic Materials



INTEGRATED iSCIENCE[®] GLENCOE

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

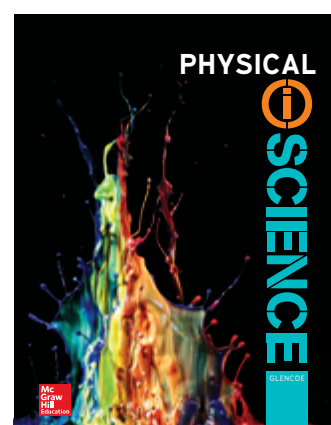
INQUIRE into the key concepts of science through our 5E lesson structure

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.





COURSE 1 TABLE OF CONTENTS



Unit 1 EXPLORING EARTH

- Lesson 1 Mapping Earth
- Lesson 2 Earth in Space
- Lesson 3 Our Planet — Earth
- Lesson 4 Earth's Dynamic Surface
- Lesson 5 Natural Resources

Unit 2 EXPLORING LIFE

- Lesson 6 Life's Structure and Classification
- Lesson 7 Inheritance and Adaptations
- Lesson 8 Introduction to Plants
- Lesson 9 Introduction to Animals
- Lesson 10 Interactions of Life

Unit 3 UNDERSTANDING MATTER

- Lesson 11 Matter and Atoms
- Lesson 12 Matter: Properties and Changes

Unit 4 UNDERSTANDING ENERGY

- Lesson 13 Energy
- Lesson 14 Waves, Sound, and Light
- Lesson 15 Electricity and Magnetism

COURSE 2 TABLE OF CONTENTS



Unit 1 STRUCTURE AND FUNCTION

- Lesson 1 Classifying and Exploring Life
- Lesson 2 Cell Structure and Function
- Lesson 3 From a Cell to an Organism
- Lesson 4 Reproduction of Organisms

Unit 2 LIFE: CHANGES AND INTERACTIONS

- Lesson 5 Genetics
- Lesson 6 The Environment and Change Over Time
- Lesson 7 Human Body Systems
- Lesson 8 Plant Processes and Reproduction
- Lesson 9 Interactions of Living Things

Unit 3 ENERGY AND MATTER

- Lesson 10 Foundations of Chemistry
- Lesson 11 The Periodic Table
- Lesson 12 Using Energy and Heat

Unit 4 EARTH: A DYNAMIC PLANET

- Lesson 13 The Earth System
- Lesson 14 Earth's Changing Surface
- Lesson 15 Using Natural Resources
- Lesson 16 Earth's Atmosphere
- Lesson 17 Weather
- Lesson 18 Climate

Unit 5 EXPLORING THE UNIVERSE

- Lesson 19 Motion, Forces, and Newton's Laws
- Lesson 20 The Sun-Earth-Moon System
- Lesson 21 Exploring the Solar System



COURSE 3 TABLE OF CONTENTS



Unit 1 MOTION AND ENERGY

- Lesson 1 Describing Motion
- Lesson 2 The Laws of Motion
- Lesson 3 Energy, Work, and Simple Machines
- Lesson 4 Sound and Light

Unit 2 INTERACTIONS OF MATTER

- Lesson 5 Thermal Energy
- Lesson 6 States of Matter
- Lesson 7 Understanding the Atom
- Lesson 8 Elements and Chemical Bonds
- Lesson 9 Chemical Reactions and Equations
- Lesson 10 Mixtures, Solubilities, and Acid/Base Solutions

Unit 3 UNDERSTANDING THE UNIVERSE

- Lesson 11 The Solar System
- Lesson 12 Stars and Galaxies

Unit 4 EARTH AND GEOLOGIC CHANGES

- Lesson 13 Minerals and Rocks
- Lesson 14 Plate Tectonics
- Lesson 15 Earthquakes and Volcanoes
- Lesson 16 Clues to Earth's Past
- Lesson 17 Geologic Time

Unit 5 EXPLORING ECOLOGY

- Lesson 18 Interactions Within Ecosystems
- Lesson 19 Biomes and Ecosystems
- Lesson 20 Environmental Impacts

Unit 6 HEREDITY AND HUMAN BODY SYSTEMS

- Lesson 21 Interactions of Human Body Systems
- Lesson 22 Heredity and How Traits Change



EARTH & SPACE iSCIENCE TABLE OF CONTENTS



Unit 1 EXPLORING EARTH

- Lesson 1 Mapping Earth
- Lesson 2 Earth's Structure
- Lesson 3 Minerals
- Lesson 4 Rocks
- Lesson 5 Weathering and Soil
- Lesson 6 Erosion and Deposition

Unit 2 GEOLOGIC CHANGES

- Lesson 7 Plate Tectonics
- Lesson 8 Earth Dynamics
- Lesson 9 Earthquakes and Volcanoes
- Lesson 10 Clues to Earth's Past
- Lesson 11 Geologic Time

Unit 3 WEATHER AND CLIMATE

- Lesson 12 Earth's Atmosphere
- Lesson 13 Weather
- Lesson 14 Climate

Unit 4 WATER AND OTHER RESOURCES

- Lesson 15 Earth's Water
- Lesson 16 Oceans
- Lesson 17 Freshwater
- Lesson 18 Natural Resources

Unit 5 EXPLORING THE UNIVERSE

- Lesson 19 Exploring Space
- Lesson 20 The Sun-Earth-Moon System
- Lesson 21 The Solar System
- Lesson 22 Stars and Galaxies

LIFE iSCIENCE TABLE OF CONTENTS



Unit 1 LIFE: STRUCTURE AND FUNCTION

- Lesson 1 Classifying and Exploring Life
- Lesson 2 Cell Structure and Function
- Lesson 3 From a Cell to an Organism
- Lesson 4 Reproduction of Organisms
- Lesson 5 Genetics
- Lesson 6 The Environment and Change Over Time

Unit 2 FROM BACTERIA TO PLANTS

- Lesson 7 Bacteria and Viruses
- Lesson 8 Protists and Fungi
- Lesson 9 Plant Diversity
- Lesson 10 Plant Processes and Reproduction

Unit 3 ANIMALS

- Lesson 11 Animal Diversity
- Lesson 12 Animal Structure and Function
- Lesson 13 Animal Behavior and Reproduction

Unit 4 HUMAN BODY SYSTEMS

- Lesson 14 Structure and Movement
- Lesson 15 Digestion and Excretion
- Lesson 16 Respiration and Circulation
- Lesson 17 Immunity and Disease
- Lesson 18 Control and Coordination
- Lesson 19 Reproduction and Development

Unit 5 INTERACTIONS OF LIFE

- Lesson 20 Matter and Energy in the Environment
- Lesson 21 Populations and Communities
- Lesson 22 Biomes and Ecosystems
- Lesson 23 Using Natural Resources

**PHYSICAL iSCIENCE TABLE OF CONTENTS****Unit 1 MOTION AND FORCES**

- Lesson 1 Describing Motion
- Lesson 2 The Laws of Motion
- Lesson 3 Work and Simple Machines
- Lesson 4 Forces and Fluids

Unit 2 ENERGY AND MATTER

- Lesson 5 Energy and Energy Resources
- Lesson 6 Thermal Energy
- Lesson 7 Foundations of Chemistry
- Lesson 8 States of Matter

Unit 3 PROPERTIES OF MATTER

- Lesson 9 Understanding the Atom
- Lesson 10 The Periodic Table
- Lesson 11 Elements and Chemical Bonds

Unit 4 INTERACTIONS OF MATTER

- Lesson 12 Chemical Reactions and Equations
- Lesson 13 Mixtures, Solubility, and Acid/Base Solutions
- Lesson 14 Carbon Chemistry

Unit 5 WAVES, ELECTRICITY, AND MAGNETISM

- Lesson 15 Waves
- Lesson 16 Sound
- Lesson 17 Electromagnetic Waves
- Lesson 18 Light
- Lesson 19 Electricity
- Lesson 20 Magnetism



Inspire Science

Inspire Science

WALKTHROUGH

<https://bit.ly/3lnw6zK>

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.





Inspire Biology

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.
- **Science and Engineering Practices Handbook** introduces practices to students that support their scientific investigations and engineering projects.
- **Reading Essentials** accommodates students with different reading levels to support the teaching of struggling readers.
- **LearnSmart®** is both adaptive and interactive to help students learn faster and increase their knowledge retention.
- **Science Probes** present a real-world phenomenon or core concept that is used to promote student thinking and discussion, revealing commonly-held misconceptions and initial ideas student bring to their learning so you can best inform your instruction.
- **Read Anywhere App** allows you to access your eBook anywhere at any time.
- **Assessment** 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 TABLE OF CONTENTS**

Module 1 The Study of Life

Unit 1 Ecology

Module 2 Principles of Ecology

Module 3 Communities, Biomes, and Ecosystems

Module 4 Population Ecology

Module 5 Biodiversity and Conservation

Unit 2 The Cell

Module 6 Chemistry in Biology

Module 7 Cellular Structure and Function

Module 8 Cellular Energy

Module 9 Cellular Reproduction and Sexual Reproduction

Unit 3 Genetics

Module 10 Introduction to Genetics and Patterns of Inheritance

Module 11 Molecular Genetics

Module 12 Biotechnology

Unit 4 History of Biological Diversity

Module 13 The History of Life

Module 14 Evolution

Module 15 Primate Evolution

Module 16 Organizing Life's Diversity

Unit 5 Diversity of Life

Module 17 Bacteria and Viruses

Module 18 Protists

Module 19 Fungi

Module 20 Introduction to Animals

Module 21 Animal Diversity and Behavior

Unit 6 The Human Body

Module 22 Integumentary, Skeletal, and Muscular Systems

Module 23 Nervous System

Module 24 Circulatory, Respiratory, and Excretory Systems

Module 25 Digestive and Endocrine Systems

Module 26 Human Reproduction and Development

Module 27 The Immune System



Inspire Chemistry

Inspire Chemistry provides an in-depth, collaborative, and projectbased learning experiencing focused on the science of chemistry.

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**CHEMISTRY TABLE OF CONTENTS**

Module 1 The Central Science

Unit 1 Structure and Properties of Matter

Module 2 Matter—Properties and Changes

Module 3 The Structure of the Atom

Module 4 Electrons in Atoms

Module 5 The Periodic Table and Periodic Law

Unit 2 Chemical Bonding and Reactions

Module 6 Ionic Compounds and Metals

Module 7 Covalent Bonding

Module 8 Chemical Reactions

Module 9 The Mole

Module 10 Stoichiometry

Unit 3 Matter, Energy, and Equilibrium

Module 11 States of Matter

Module 12 Gases

Module 13 Mixtures and Solutions

Module 14 Energy and Chemical Change

Module 15 Reaction Rates

Module 16 Chemical Equilibrium

Module 17 Acids and Bases

Unit 4 Oxidation and Reduction Reactions

Module 18 Redox Reactions

Module 19 Electrochemistry

Unit 5 Organic and Nuclear Chemistry

Module 20 Hydrocarbons

Module 21 Substituted Hydrocarbons and Their Reactions

Module 22 The Chemistry of Life

Module 23 Nuclear Chemistry



Inspire Physics

Inspire Physics provides an in-depth, collaborative, and project-based learning experiencing 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

- **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.
- **Science and Engineering Practices Handbook** introduces practices to students that support their scientific investigations and engineering projects.
- **LearnSmart®** is both adaptive and interactive to help students learn faster and increase their knowledge retention.
- **Science Probes** present a real-world phenomenon or core concept that is used to promote student thinking and discussion, revealing commonly-held misconceptions and initial ideas student bring to their learning so you can best inform your instruction.
- **Read Anywhere App** allows you to access your eBook anywhere at any time.
- **Assessment** 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.



PHYSICS TABLE OF CONTENTS

Module 1 Physics Toolkit

Unit 1 Mechanics

Module 2 Representing Motion

Module 3 Accelerated Motion

Module 4 Forces in One Dimension

Module 5 Displacement and Force in Two Dimensions

Module 6 Motion in Two Dimensions

Module 7 Gravitation

Module 8 Rotational Motion

Module 9 Momentum and Its Conservation

Unit 2 Energy

Module 10 Energy and Its Conservation

Module 11 Thermal Energy

Module 12 States of Matter

Unit 3 Waves and Light

Module 13 Vibrations and Waves

Module 14 Sound

Module 15 Fundamentals of Light

Module 16 Optics

Module 17 Interference and Diffraction

Unit 4 Electricity and Magnetism

Module 18 Electrostatics

Module 19 Electric Current and Circuits

Module 20 Magnetic Fields

Module 21 Electromagnetism

Unit 5 Subatomic Physics

Module 22 Quantum Theory and the Atom

Module 23 Solid State Electronics

Module 24 Nuclear and Particle Physics



Inspire

Earth Science

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.



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EARTH SCIENCE TABLE OF CONTENTS

Module 1 Introduction to Earth Science

Unit 1 Composition of Earth

Module 2 Matter and Change

Module 3 Minerals

Module 4 Rocks

Unit 2 Surface Processes on Earth

Module 5 Weathering, Erosion, and Soil

Module 6 Mass Movements, Wind, and Glaciers

Module 7 Water

Unit 3 The Atmosphere and the Oceans

Module 8 Atmosphere

Module 9 Meteorology

Module 10 The Nature of Storms

Module 11 Climate

Module 12 Earth's Oceans

Unit 4 The Dynamic Earth

Module 13 Plate Tectonics

Module 14 Volcanism

Module 15 Earthquakes

Module 16 Mountain Building

Unit 5 Geologic Time

Module 17 Fossils and the Rock Record

Module 18 Geologic Time Scale

Unit 6 Resources and the Environment

Module 19 Earth's Resources

Module 20 Human Impact on Resources

Unit 7 Beyond Earth

Module 21 The Sun-Earth-Moon System

Module 22 Our Solar System

Module 23 Stars

Module 24 Galaxies and the Universe



Inspire

Physical Science

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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**PHYSICAL SCIENCE TABLE OF CONTENTS**

Module 1 The Nature of Science

Unit 1 Motion and Forces

Module 2 Motion

Module 3 Forces and Newton's Laws

Unit 2 Energy

Module 4 Work and Energy

Module 5 Thermal Energy

Module 6 Electricity

Module 7 Magnetism and Its Uses

Module 8 Energy Sources and the Environment

Unit 3 Waves

Module 9 Introduction to Waves

Module 10 Sound

Module 11 Electromagnetic Waves

Module 12 Light

Module 13 Mirrors and Lenses

Unit 4 Matter

Module 14 Solids, Liquids, and Gases

Module 15 Classification of Matter

Module 16 Properties of Atoms and the Periodic Table

Module 17 Elements and Their Properties

Unit 5 Reactions

Module 18 Chemical Bonds

Module 19 Chemical Reactions

Module 20 Radioactivity and Nuclear Reactions

Unit 6 Applications of Chemistry

Module 21 Solutions

Module 22 Acids, Bases, and Salts

Module 23 Organic Compounds

Module 24 New Materials Through Chemistry



Physical Science With Earth

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- **Assessment** 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.



PHYSICAL SCIENCE WITH EARTH TABLE OF CONTENTS

Module 1 The Nature of Science

Unit 1 Motion and Forces

Module 2 Motion

Module 3 Forces and Newton's Laws

Unit 2 Energy

Module 4 Work and Energy

Module 5 Thermal Energy

Module 6 Electricity

Module 7 Magnetism and Its Uses

Module 8 Energy Sources and the Environment

Unit 3 Waves

Module 9 Introduction to Waves

Module 10 Sound

Module 11 Electromagnetic Waves

Module 12 Light

Module 13 Mirrors and Lenses

Unit 4 Matter

Module 14 Solids, Liquids, and Gases

Module 15 Classification of Matter

Module 16 Properties of Atoms and the Periodic Table

Module 17 Elements and Their Properties

Unit 5 Reactions

Module 18 Chemical Bonds

Module 19 Chemical Reactions

Module 20 Radioactivity and Nuclear Reactions

Unit 6 Applications of Chemistry

Module 21 Solutions

Module 22 Acids, Bases, and Salts

Module 23 Organic Compounds

Module 24 New Materials Through Chemistry

Unit 7 Earth

Module 25 Earth's Internal Processes

Module 26 Earth Materials

Module 27 Earth's Changing Surface

Module 28 Weather and Climate

Unit 8 Space

Module 29 The Earth-Moon-Sun System

Module 30 The Solar System

Module 31 Stars and Galaxies



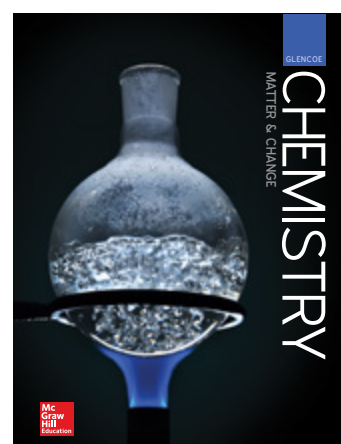
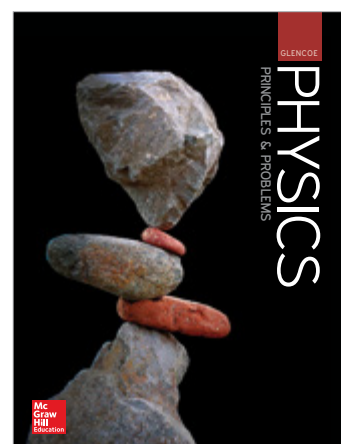
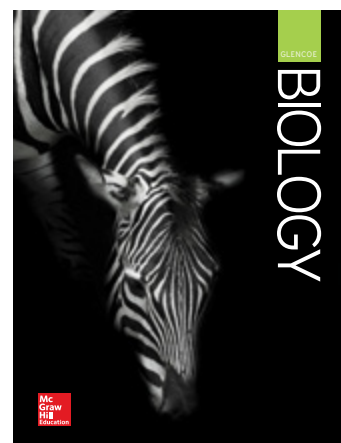
Engage High School Students with the Best Science Solutions

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 includes:

- 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

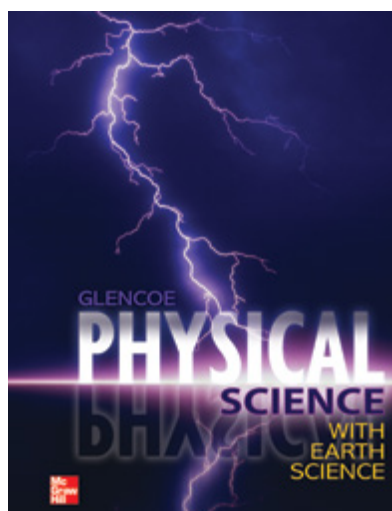
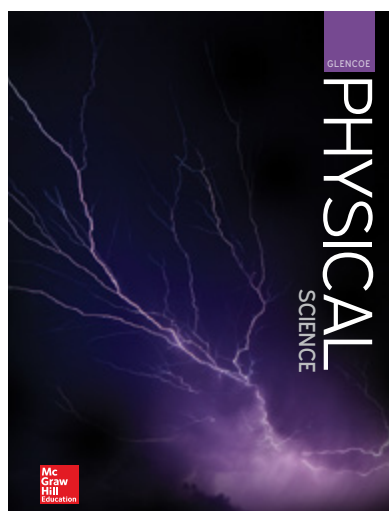
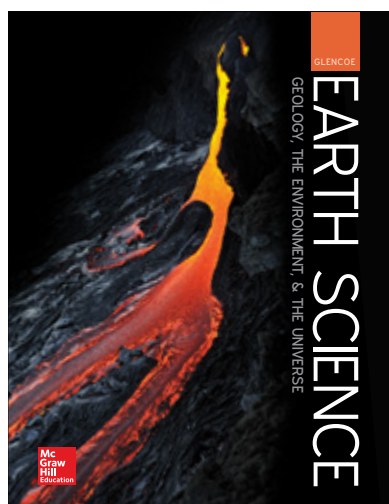
Resources

- **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.*
- **Teacher Essentials** gives you only what you need in print: answers and strategies for differentiation. *Only available for Glencoe Physics: Principles & Problems.*
- **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.





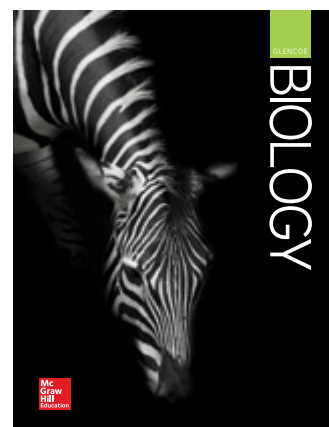
- **ConnectED Mobile App** provides 24/7 access to the ebook on your iPad or Android tablet, allowing you to update your classroom management resources anywhere at any time.
- **eAssessment** supports many types of evaluations, including technology-enhanced questions, online scoring and reporting for 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



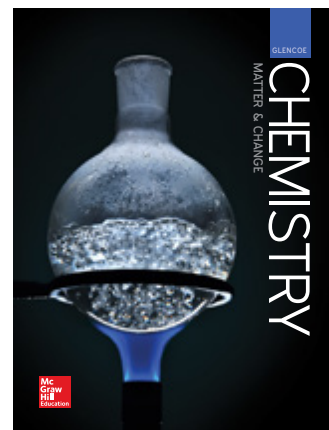
BIOLOGY TABLE OF CONTENTS

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	
18 Bacteria and Viruses	
19 Protists	
20 Fungi	
	Unit 6 Plants
	21 Introduction to Plants
	22 Plant Structure and Function
	23 Reproduction in Plants
	Unit 7 Invertebrates
	24 Introduction to Animals
	25 Worms and Mollusks
	26 Arthropods
	27 Echinoderms and Invertebrate Chordates
	Unit 8 Vertebrates
	28 Fishes and Amphibians
	29 Reptiles and Birds
	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



Attract, enlighten and engage your students with a program that helps them “bond” with chemistry.

- Offers a strong problem-solving strand with unique strategies and an enhanced “example problem” format that includes blue “coaching notes”
- Supports all your student differentiation needs with robust, built-in reading and math resources
- Provides highly interactive chemistry labs with virtual investigations
- Includes an exclusive tutorial guide with an online Personal Tutor for selected chemistry concepts on **ConnectED**
- Offers exclusive Dinah Zike Foldables, which provide a researchbased method of organizing information for effective study and retention of content.



CHEMISTRY TABLE OF CONTENTS

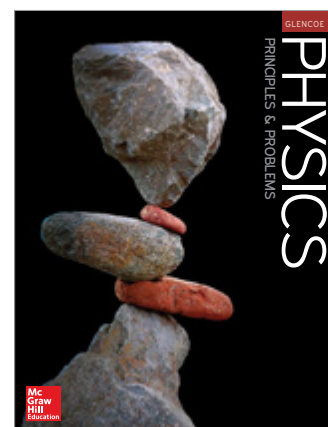
Chapters

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
10. The Mole
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



PHYSICS TABLE OF CONTENTS

Chapters

Mechanics

1. A Physics Toolkit
2. Representing Motion
3. Accelerated Motion
4. Forces in One Dimension
5. Displacement and Force in Two Dimensions
6. Motion in Two Dimensions
7. Gravitation
8. Rotational Motion
9. Momentum and Its Conservation

Energy

10. Work, Energy, and Machines
11. Energy and Its Conservation
12. Thermal Energy
13. States of Matter

Waves & Light

14. Vibrations and Waves
15. Sound
16. Fundamentals of Light
17. Reflection and Mirrors
18. Refraction and Lenses
19. Interference and Diffraction

Electricity and Magnetism

20. Static Electricity
21. Electric Fields
22. Electric Current
23. Series and Parallel Circuits
24. Magnetic Fields
25. Electromagnetic Induction
26. Electromagnetism

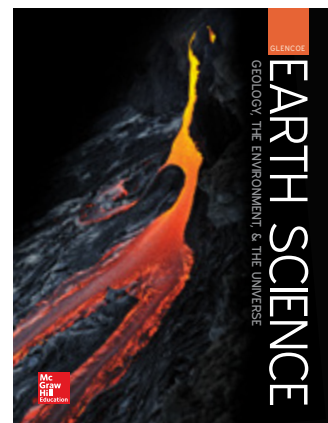
Subatomic Physics

27. Quantum Theory
28. The Atom
29. Solid-State Electronics
30. Nuclear and Particle Physics



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



EARTH SCIENCE TABLE OF CONTENTS

Chapters

Earth Science

1. The Nature of Science
2. Mapping Our World

Composition of Earth

3. Matter and Change
4. Minerals
5. Igneous Rocks
6. Sedimentary and Metamorphic Rocks

Surface Processes on Earth

7. Weathering, Erosion, and Soil
8. Mass Movements, Wind, and Glaciers
9. Surface Water
10. Groundwater

The Atmosphere and the Oceans

11. Atmosphere
12. Meteorology
13. The Nature of Storms
14. Climate
15. Earth's Oceans
16. The Marine Environment

The Dynamic Earth

17. Plate Tectonics
18. Volcanism
19. Earthquakes
20. Mountain Building

Geologic Time

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

Resources and the Environment

24. Earth Resources
25. Energy Resources
26. Human Impact on Resources

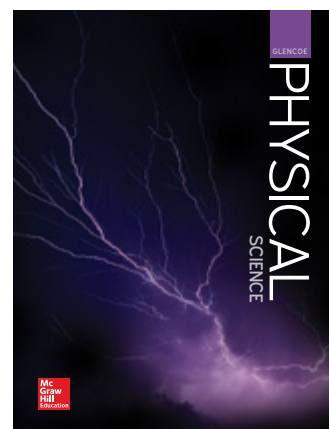
Beyond Earth

27. The Sun-Earth-Moon System
28. Our Solar System
29. Stars
30. Galaxies and the Universe



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
- 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



PHYSICAL SCIENCE TABLE OF CONTENTS

Unit 1 Motion and Forces

- 1 The Nature of Science
- 2 Motion
- 3 Forces and Newton's Laws

Unit 2 Energy

- 4 Work and Energy
- 5 Thermal Energy
- 6 Electricity
- 7 Magnetism and Its Uses
- 8 Energy Sources and the Environment

Unit 3 Waves

- 9 Introduction to Waves
- 10 Sound
- 11 Electromagnetic Waves
- 12 Light
- 13 Mirrors and Lenses

Unit 4 Matter

- 14 Solids, Liquids, and Gases
- 15 Classification of Matter
- 16 Properties of Atoms and the Periodic Table
- 17 Elements and their Properties

Unit 5 Reactions

- 18 Chemical Bonds
- 19 Chemical Reactions
- 20 Radioactivity and Nuclear Reactions

Unit 6 Applications of Chemistry

- 21 Solutions
- 22 Acids, Bases, and Salts
- 23 Organic Compounds
- 24 New Materials Through Chemistry



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PHYSICAL SCIENCE WITH EARTH SCIENCE TABLE OF CONTENTS

Unit 1 Motion and Forces

- 1 The Nature of Science
- 2 Motion
- 3 Forces and Newton's Laws

Unit 2 Energy

- 4 Work and Energy
- 5 Thermal Energy
- 6 Electricity
- 7 Magnetism and Its Uses
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- 23 Organic Compounds
- 24 New Materials Through Chemistry

Unit 7 Applications of Chemistry

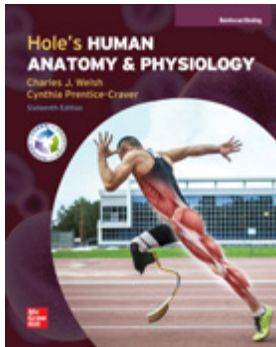
- 25 Earth's Internal Processes
- 26 Earth Materials
- 27 Earth's Changing Surface
- 28 Weather and Climate

Unit 8 Applications of Chemistry

- 29 The Earth-Moon-Sun System
- 30 The Solar System
- 31 Stars and Galaxies



Welsh, 16th Edition ©2022



Hole's Human Anatomy & Physiology

The Comprehensive, Gold Standard Approach to Anatomy & Physiology

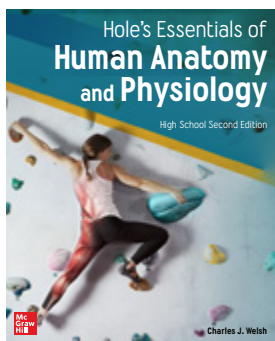
A market leader for over 40 years, Hole's Human Anatomy & Physiology delivers a comprehensive, in-depth exploration of anatomy and physiology while placing emphasis on the fundamentals for students who have little-to-no prior science knowledge. The proven Learn, Practice, Assess learning system ensures student understanding, application, and mastery of complex concepts while the Understanding Words feature builds a solid anatomy and physiology vocabulary.

With this new edition of Hole's 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. Students will connect with the accessible, engaging, and relevant coverage that integrates real-world issues, clinical applications, and the latest in scientific advances. Additional teaching and learning features include:

- An enhanced dynamic art program to help clarify key principles, increase visual impact, and ensure accuracy to reinforce important concepts
- The chapter level Career Corner that introduces students to a variety of fields of practice and related occupations
- A Lab Manual with 34 hands-on activities designed to complement any anatomy and physiology course

[View ISBN List on page 78](#)

Welsh, 2nd Edition © 2021



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, shortanswer, 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

[View ISBN List on page 78](#)

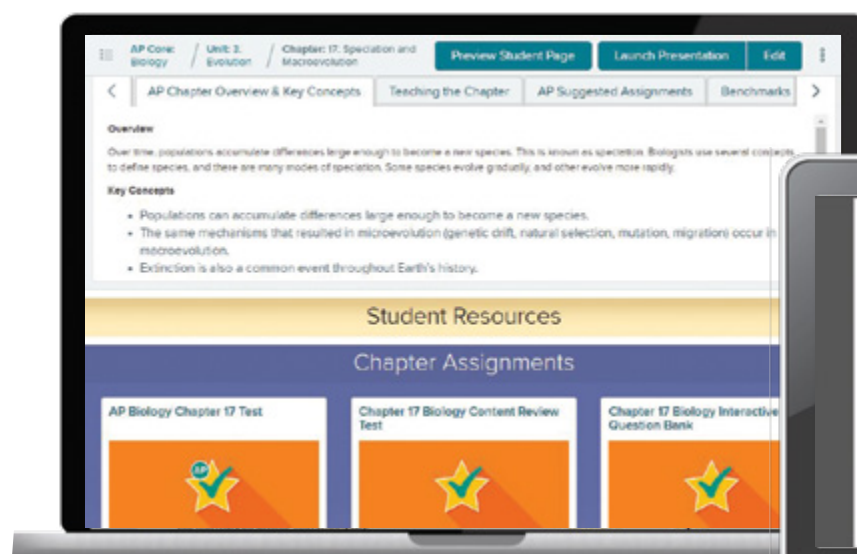


Biology, AP Edition

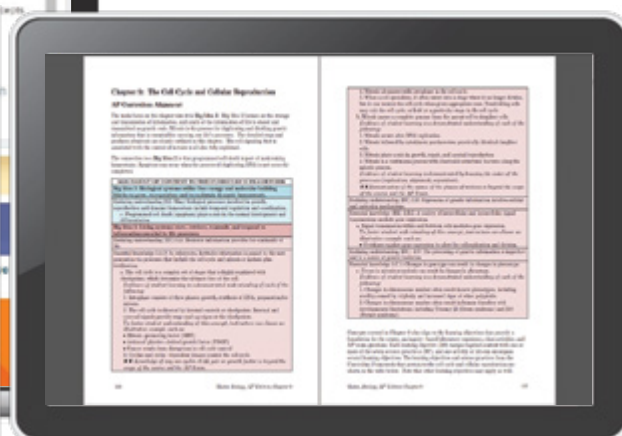
Trusted, Accessible, and 100% Aligned for AP Success

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
- Virtual labs
- An AP Edition eBook and a Smartbook that delivers adaptive, personalized reading experience anytime, anywhere
- Two complete Teacher Manuals, one traditional and an alternate organized around the College Board AP Units.



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

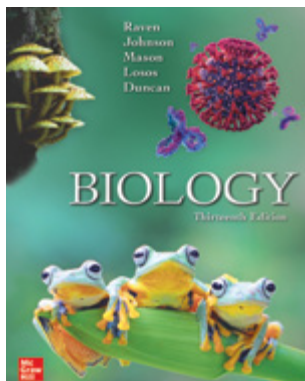


Two versions of the Teacher Manual provide ultimate flexibility in approaching course instruction.

McGraw Hill reserves the right to make changes, improvements, and/or updates to our technology services and content at any time during your subscription term in order to offer our customers the most up-to-date content and technology. Educators will be notified of any changes prior to the start of the school year, and we will provide a transition guide that details any changes to the eText with corresponding instructions to the print book.



Raven, 13th Edition © 2023



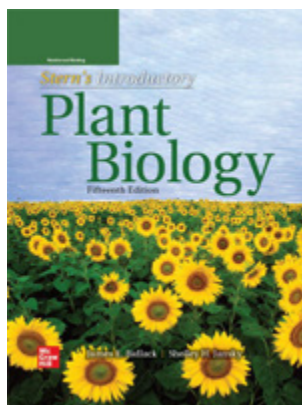
Biology

Keeping the Student and Learning Foremost

This new edition maintains the clear, accessible, and engaging writing style with the solid framework that highlights an emphasis on evolution and scientific inquiry. This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular, molecular biology, and genomics to offer students a text that is friendly and current. Aesthetically stunning art presents complex topics clearly and succinctly, helping students build the mental models needed to understand biology.

[View ISBN List on page 78](#)

Bidlack, 15th Edition © 2021



Stern's Introductory Plant Biology

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, an integration of biotechnology into several chapters, and the inclusion of text boxes addressing ecology, evolution, and molecular biology. Features include:

- 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
- 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; a brief discussion on how to cultivate vegetables and their nutritional values; and metric equivalents and conversion tables

[View ISBN List on page 78](#)

Castro • Huber, 2nd Edition © 2016



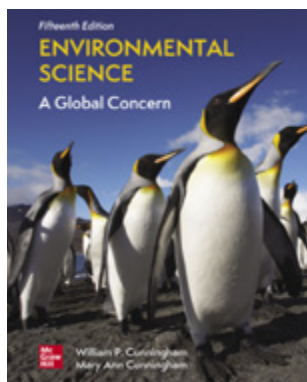
Marine Science

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 78](#)



Environmental Science: A Global Concern

A Global View of Environmental Science

Environmental Science: A Global Concern is a comprehensive presentation of environmental science which emphasizes critical thinking, environmental responsibility, and global awareness. This book is intended for use in a one or two-semester course in environmental science and human ecology.

- Attention to statistics, graphing, graph interpretation, and abundant up-to-date data help students practice their skills with data interpretation
- Quantitative reasoning questions deliver ample practice in evaluating data and graphs
- Exploring Science readings demystify the process of answering questions with scientific and quantitative methods
- What Can You Do? sections help students identify ways to apply what they are learning to their own lives and communities
- What Do You Think? readings ask students to critically evaluate their own assessments of a complex problem

[View ISBN List on page 78](#)

Mader, 16th Edition © 2020



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 78](#)



Enger, 16th Edition © 2022



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 an expanded art program, 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 78](#)


Cunningham, 9th Edition © 2020

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.

[View ISBN List on page 78](#)



Cunningham, 1st Edition © 2023



Principles of Environmental Science: Inquiry and Applications, High School

Designed for the High School Classroom

The brand-new high school edition of Principles of Environmental Science: Inquiry and Application retains the program's high quality content and dynamic features and delivers enhanced NGSS integration and ELL/ELA support with:

- A new High School Teacher Manual with strategies, pacing, activities, and more.
- Thematic, chapter-level case studies that bring relevance and real-world application to instruction.
- A Lab Manual with guided- and open-inquiry labs designed to complement the high school classroom.
- Best-in-class digital resources including Google Earth activities, unit projects, animations, and more.

[View ISBN List on page 78](#)


Sverdrup, 4th Edition © 2024

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

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Miller, 11th Edition © 2016



Zoology

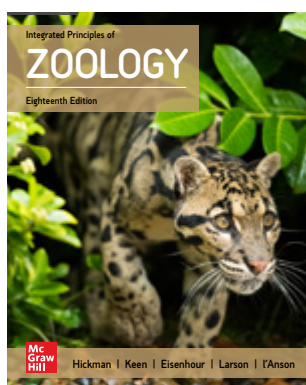
Ideal for a One-Semester, Introductory Course

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

[View ISBN List on page 79](#)

Hickman, 18th Edition © 2017



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.

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*Lewis, 13th Edition © 2021*

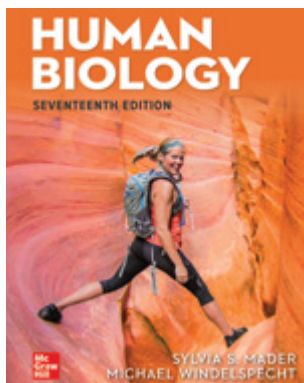
Human Genetics: Concepts and Applications

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 and include:

- 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 personalizes the learning experience

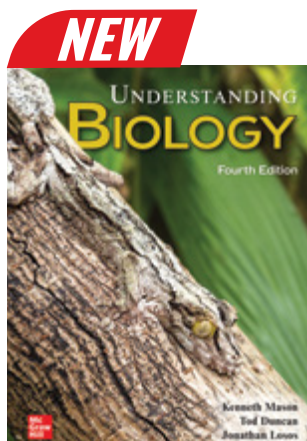
[View ISBN List on page 79](#)*Mader, 17th Edition © 2020*

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.

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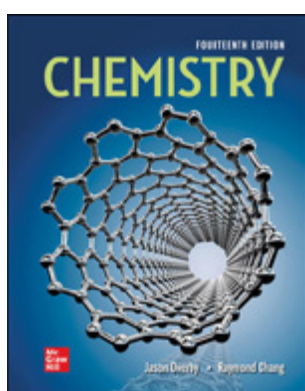
Mason, 4th Edition © 2024

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.

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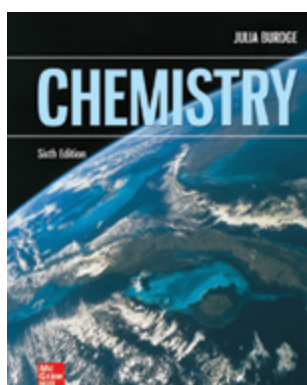
Chang, 14th Edition © 2023

AP[®] Chemistry

Updated for Complete AP Alignment

The straightforward, clear writing style and proven problem-solving strategies make Chang's *Chemistry* a favorite among teachers and students. Chapter opening Essential Questions guide students in pinpointing essential AP content while referencing the AP Units and Topics. Updated resources aligned to the course Framework include:

- AP correlations at both the course and chapter levels.
- Updated eBook and Test Bank correlations.
- The adaptive SmartBook creates a personalized, targeted learning path for each student.
- An AP Teacher Manual, now available in print, provides teaching strategies, suggested activities, and labs.

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Burdge, 6th Edition © 2020

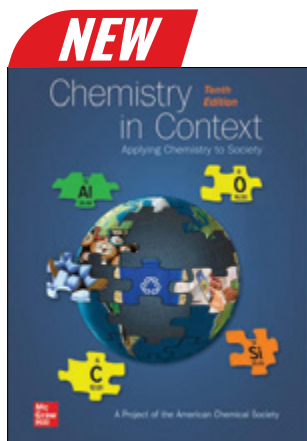
Chemistry

Fosters Critical Thinking and Problem-Solving Skills

Chemistry offers a clear, engaging writing style written with the students in mind. Author Julia Burdge uses her teaching background with general chemistry students to design the pedagogy that offers a more detailed explanation of problem areas. Integrated artwork and applications guide students through common pitfalls and misconceptions.

- Chapter-level Key Skills modules help students find touchstones to hone specific skills from earlier chapters in the context of what they will encounter in later chapters.
- A consistent, step-by-step problem-solving approach.
- Outstanding art.
- A wide range of end-of-chapter problems. A strong focus on biological and medicinal applications.

[View ISBN List on page 79](#)



American Chemical Society, 11th Edition © 2025

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.

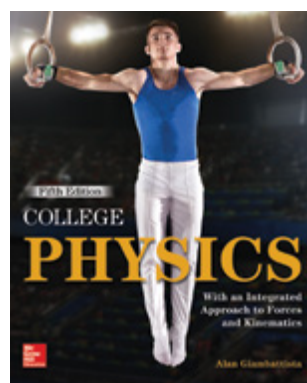
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Burdge, 5th Edition © 2024

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.

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Gianbattista, 5th Edition © 2020

College Physics

A Conceptual Framework for AP Physics

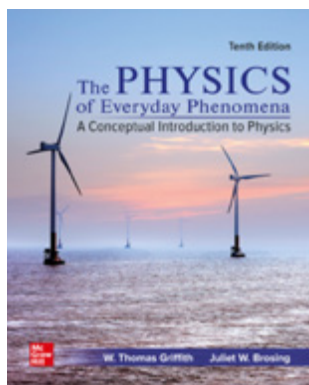
College Physics presents a unique forces-first approach to physics that builds a conceptual framework as motivation for the physical principles. This edition addresses the needs of today's students with:

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

[View ISBN List on page 79](#)



Griffith, 10th Edition © 2022



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*.)

[View ISBN List on page 79](#)

Tillery, 8th Edition © 2022



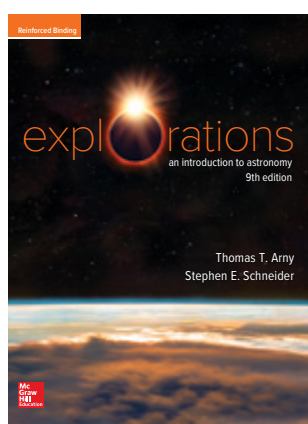
Integrated Science

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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Burdge, 9th Edition © 2020



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.

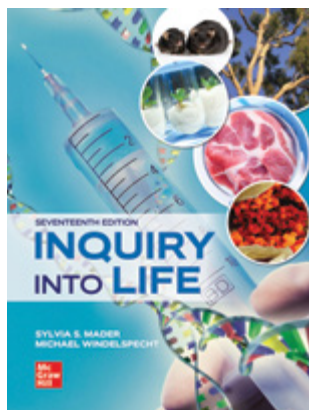
This edition also offers:

- 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

[View ISBN List on page 79](#)



Burdge, 17th Edition © 2023



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.

[View ISBN List on page 79](#)

McConnell, 5th Edition © 2021



The Good Earth: Introduction to Earth Science

Reveal the Big Picture for Earth Science

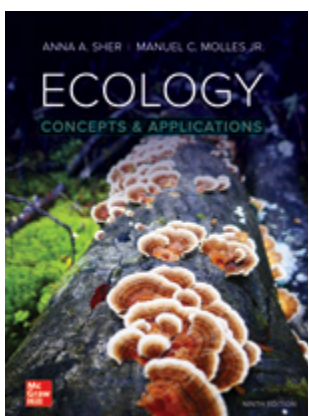
The structural elements of The Good Earth incorporate student-centered teaching to promote active learning in the classroom.

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.

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Molles, 9th Edition © 2022

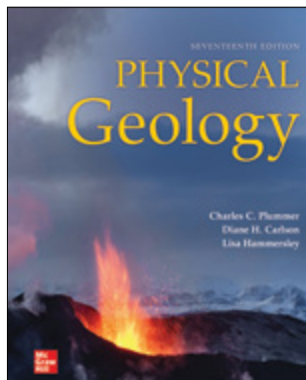


Ecology: Concepts and Applications

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.

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*Plummer, 17th Edition © 2022*

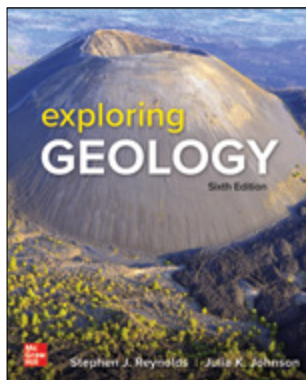
Physical Geology

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

[View ISBN List on page 79](#)*Reynolds, 6th Edition © 2022*

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 79](#)

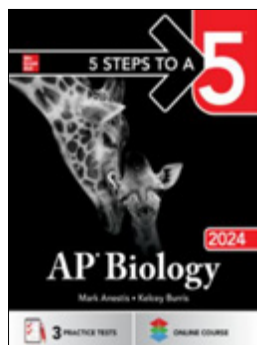

NEW

Supplement Your AP Science Classroom Instruction with **5 STEPS TO A 5!**

AP Teachers' #1 Choice!

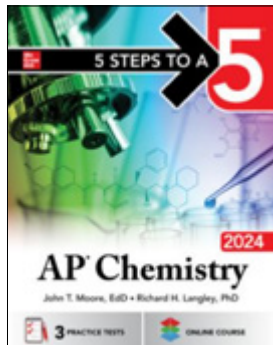
AP Biology

Anestis & Burris, 1st Edition © 2024



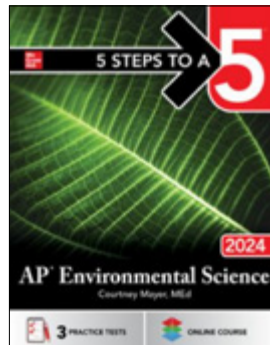
AP Chemistry

Moore & Langley, 1st Edition © 2024



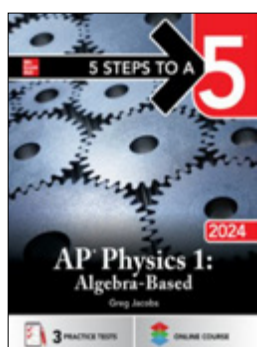
AP Environmental Science

Mayer, 1st Edition © 2024



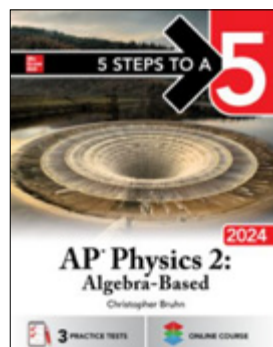
AP Physics 1: Algebra-Based

Jacobs, 1st Edition © 2024



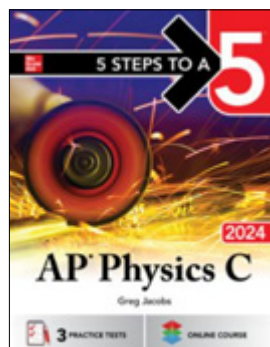
AP Physics 2: Algebra-Based

Bruhn, 1st Edition © 2024



AP Physics C

Jacobs, 1st Edition © 2024



Ready to succeed in your AP course and ace your exam? Our 5 Steps to a 5 guides explain the tough stuff, offer tons of practice and explanations, and help you make the most efficient use of your study time. 5 Steps to a 5 is more than a review guide, it's a system that has helped thousands of students walk into test day feeling prepared and confident.

Everything You Need for a 5:

- 3 full-length practice tests that align with the latest College Board requirements
- Hundreds of practice exercises with answer explanations
- Comprehensive overview of all test topics
- Proven strategies from seasoned AP educators

Study on the Go:

- All instructional content in digital format (available online and on mobile devices)
- Interactive practice tests with answer explanations
- A self-guided, personalized study plan with daily goals, powerful analytics, flashcards, games, and more

A Great In-class Supplement:

- 5 Steps is an ideal companion to your main AP text
- Includes an Teacher's Manual that offers excellent guidance to educators for better use of the 5 Steps resources



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- LearnSmart Achieve—digital adaptive test prep with test formats matching exams and personalized learning plans
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- Common Core Achieve, 1-year subscription
- LearnSmart Achieve HiSET Adaptive Test Prep: Reading and Writing, 1-Year Subscription
- LearnSmart Achieve HiSET Adaptive Test Prep: Mathematics, 1-Year Subscription
- LearnSmart Achieve HiSET Adaptive Test Prep: Science, 1-Year Subscription
- LearnSmart Achieve HiSET Adaptive Test Prep: Social Studies, 1-Year Subscription

Common Core Achieve Online Plus LearnSmart® Achieve TASC Adaptive Test Prep, 1-year subscription for social studies, reading & writing, mathematics, and science. Seats are recyclable. Set includes:

- Common Core Achieve, 1-year subscription
- LearnSmart Achieve TASC Adaptive Test Prep: Reading and Writing, 1-Year Subscription
- LearnSmart Achieve TASC Adaptive Test Prep: Mathematics, 1-Year Subscription
- LearnSmart Achieve TASC Adaptive Test Prep: Science, 1-Year Subscription
- LearnSmart Achieve TASC Adaptive Test Prep: Social Studies, 1-Year Subscription



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”

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



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- Blending programs.
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Ready When You Are

Whether you're implementing a new program—or you've been using a program for a few years — McGraw Hill Online Professional Learning supports you with a comprehensive library of relevant, self-paced professional learning resources — all available around the clock.

Short on time? Most embedded videos are less than 5 minutes, so you can learn a quick strategy while you're planning a lesson.

Program Implementation Support

Implementation support provides everything you need to know to get up to speed on day one.

- Quick Start eLearning Courses provide program basics to help you get started quickly.
- Deep-Dive eLearning Courses provide all you need to learn to fully implement your new program with fidelity.



Online Professional Learning is included with your program's digital resources.



Digital Platform Support

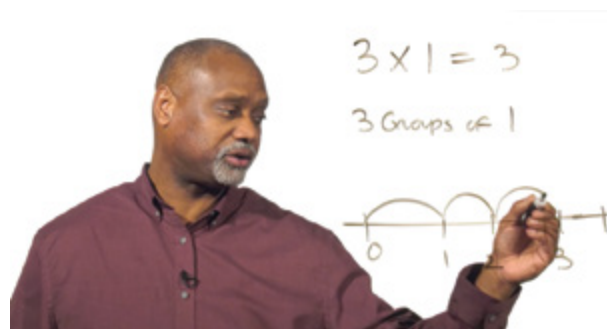
Digital support helps you feel confident planning, teaching, and assessing with the digital tools in your program.

- Digital Walkthrough Videos provide an orientation to the resources available in your digital program.
- Teacher Help provides step-by-step instructions for your digital tools.

Ongoing Pedagogy Support

Pedagogy and content support resources allow you to choose what you want to learn when you want to learn it.

- Instructional Coaching Videos are embedded at the point of use to provide next-practice strategies.
- Interviews with Experts provide the “why” behind best practices.
- Classroom Videos show and model the teaching of strategies and lessons.
- eLearning Courses offer flexibility for self-paced, small-group, or workshop learning with online and facilitator-led options.





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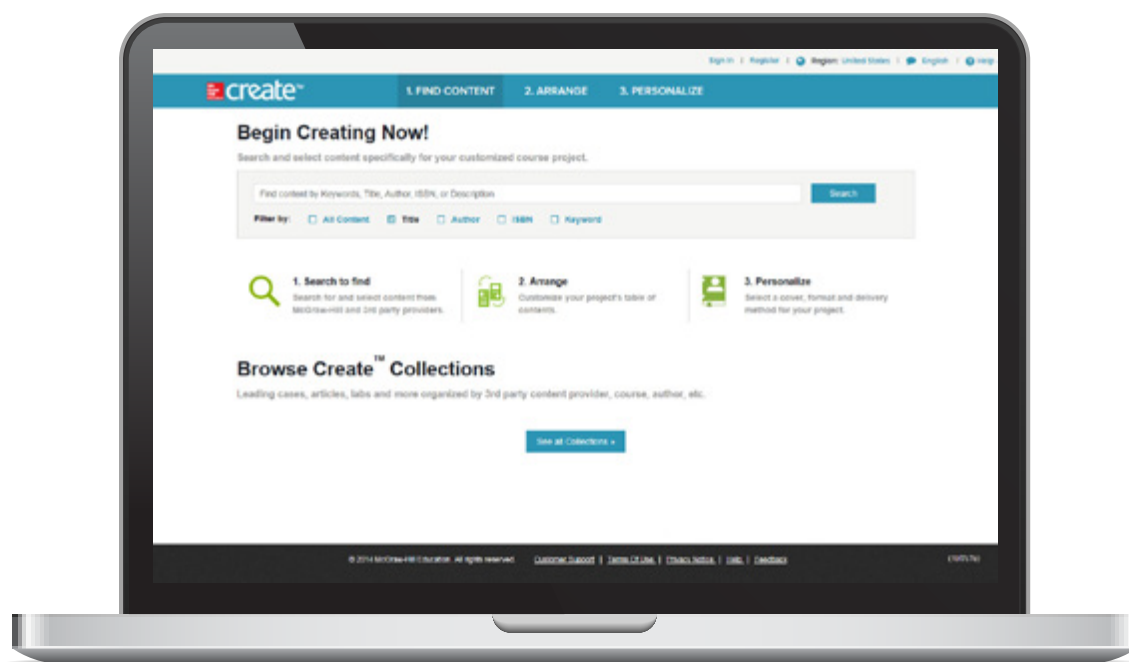
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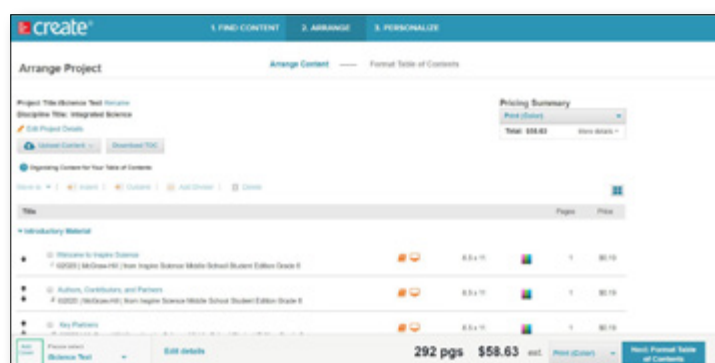
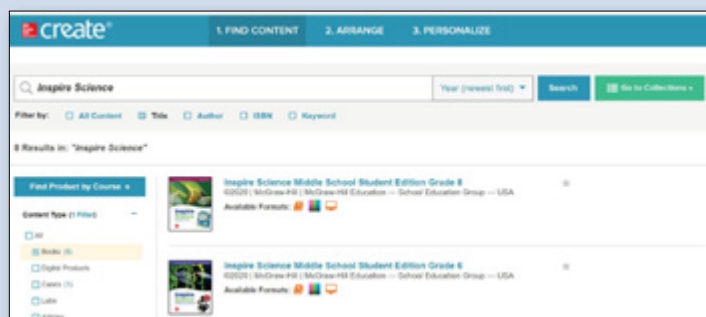




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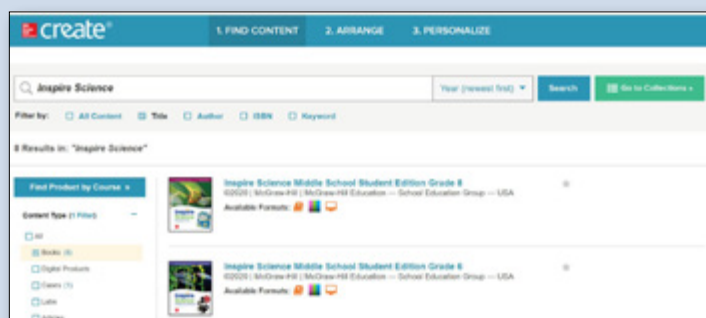


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