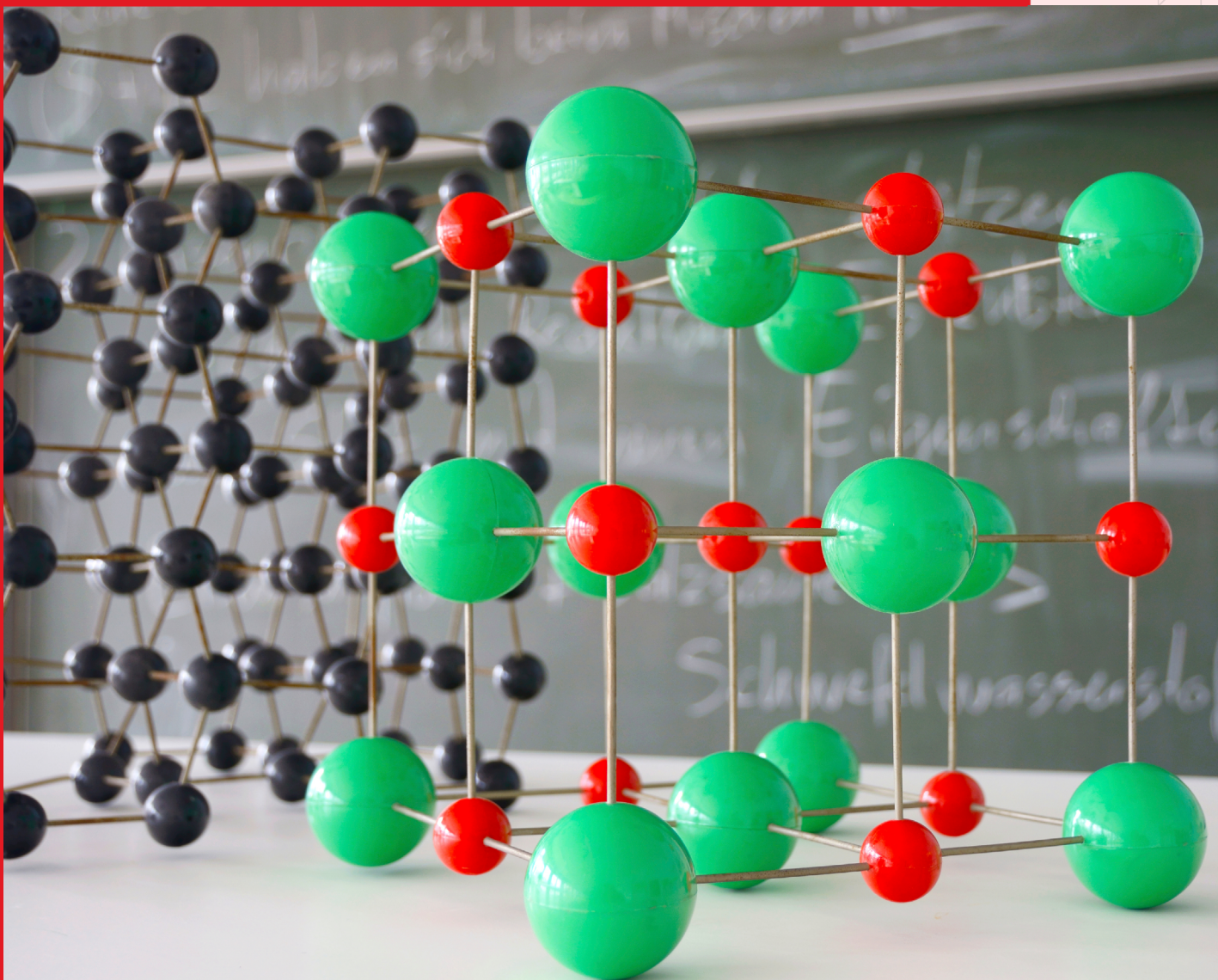


**Mc
Graw
Hill**

PreK-12 Asia Catalog

SCIENCE

2022



New

New Digital Online Simulations with McGraw Hill 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.

Learn how you can pair this with your core Science program on [page 15](#).



New Advanced Placement Titles!!!



View our range of new Advanced Placement titles from on [page 50](#) onwards.

Table of Contents

PreK–5

Inspire Science Pre K	7
Inspire Science K-5	8

Grade 6 to 8

LearnSmart	14
McGraw Hill Science Interactives	15
Inspire Science 6-8	19
Inspire Science 6-8 Integrated	21
Inspire Science: Life, Inspire Science: Physical Science, and Inspire Science: Earth & Space	23
Integrated iScience, Earth & Space iScience, Life iScience, and Physical iScience	25

Grade 9-12

Inspire Science High School Series	30
Inspire Biology	31
Inspire Chemistry	33
Inspire Physics	35
Inspire Earth Science	37
Inspire Physical Science	38
Inspire Physical Science with Earth	40
Glencoe High School Science Serie	42
Glencoe Biology	44
Glencoe Chemistry: Matter and Change	45
Glencoe Physics: Principles & Problems	46
Glencoe Earth Science: Geology, the Environment, and the Universe	47
Glencoe Physical Science	48
Glencoe Physical Science with Earth Science	49

Advanced Placement

Hole's Human Anatomy & Physiology, 16 edition	50
Hole's Human Anatomy & Physiology, High School, 2 edition	50
Biology, Mader, 14 edition	51
Biology, Raven, 12 edition	52
Stern's Introductory Plant Biology, 14 edition	52
Marine Science, 2 edition	52
Environmental Science: A Global Concern, 15 edition	53
Environmental Science: A Study of Interrelationship, Mader, 16 edition	53
Environmental Science: A Study of Interrelationship, Enger, 16 edition	54

Principles of Environmental Science: Inquiry and Applications, 9 edition	54
Principles of Environmental Science: Inquiry and Applications, High School, 1 edition	55
Investigating Oceanography, 3 edition	55
Zoology, 11 edition	56
Integrated Principles of Zoology, 18 edition	56
Human Genetics: Concepts and Applications, 13 edition	57
Human Biology, 16 edition	57
Understanding Biology, 3 edition	58
Chemistry, Chang, 14 edition	58
Chemistry, Burdge, 5 edition	58
Chemistry in Context, 10 edition	59
Chemistry: Atoms First, 4 edition	59
College Physics, 5 edition	59
The Physics of Everyday Phenomena, 10 edition	60
Integrated Science, 8 edition	60
Explorations: An Introduction to Astronomy, 9 edition	60
Inquiry Into Life 16, edition	61
The Good Earth: Introduction to Earth Science, 5 edition	61
Ecology: Concepts and Applications, 8 edition	61
Physical Geology, 16 edition	62
Exploring Geology, 5 edition	62
High School Equivalency Test; GED, HiSET® / TASC	63
Custom Solutions	64
Online Professional Learning	66
Create	68
ISBN List	70
About McGraw Hill	79
Regional Office	80

Disclaimer: Information provided is accurate as of January 2022 and is subjected to changes without prior notice.

Level Chart

PreKindergarten to Grade 5

		Kindergarten		Elementary						Secondary					
Title	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	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	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														●	●
Environmental Science: A Study of Interrelationship 16edn Enger														●	●
Principles of Environmental Science: Inquiry and Applications, 9 edition														●	●
Principles of Environmental Science: Inquiry and Applications, High School, 1 edition														●	●
Investigating Oceanography, 3 edition														●	●
Zoology ,11 edition														●	●
Integrated Principles of Zoology, 18 edition														●	●
Human Genetics: Concepts and Applications, 13 edition														●	●
Human Biology, 16 edition														●	●
Understanding Biology, 3 edition														●	●
Chemistry, Chang, 14 edition														●	●
Chemistry, Burdge, 5 edition														●	●
Chemistry in Context, 10 edition														●	●
Chemistry: Atoms First 4 edition														●	●
College Physics, 5 edition														●	●
The Physics of Everyday Phenomena, 10 edition														●	●

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

[View ISBN List on page 70](#)



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.

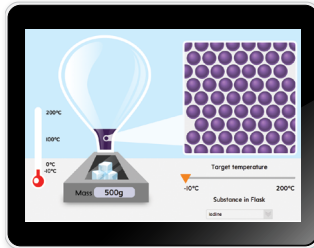


Different Types of Online Resources

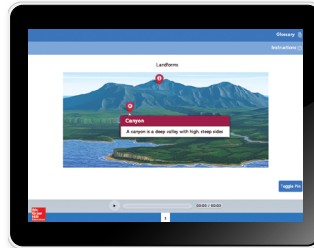
 Ready-to-Go Lesson Presentations



 Simulations



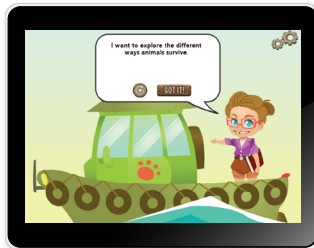
 Interactives



 Science Songs



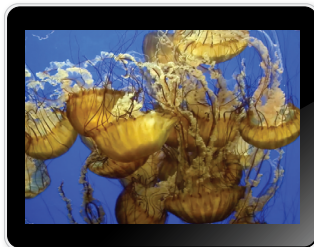
 Games



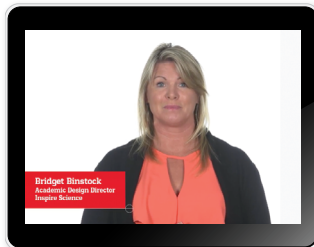
 eAssessment



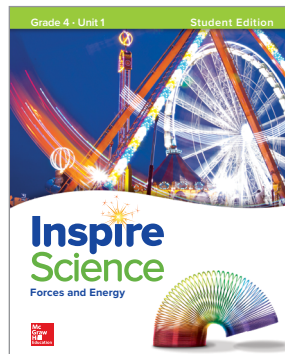
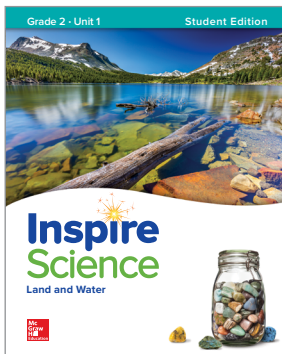
 Videos



 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



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

[View ISBN List on page 70](#)



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 Function 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

[View ISBN List on page 70](#)

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.

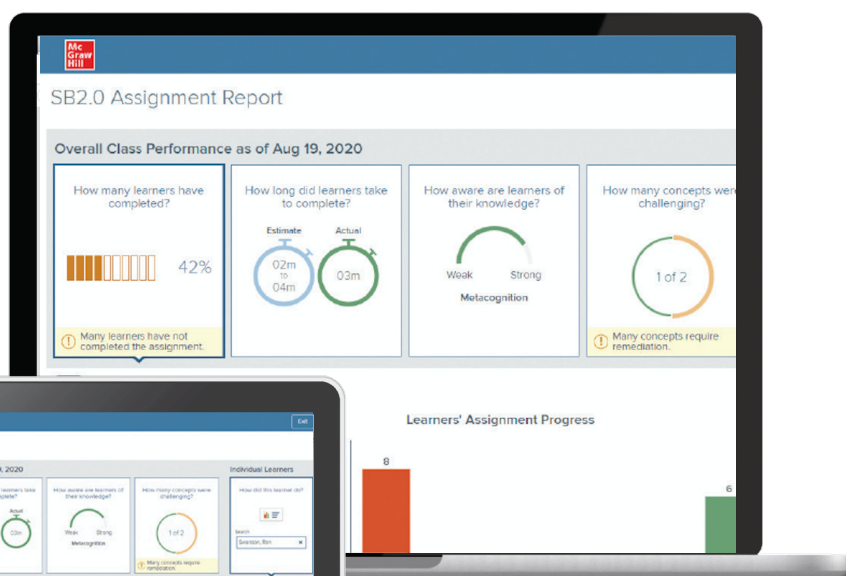
Ensure students understand and retain concepts.

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*

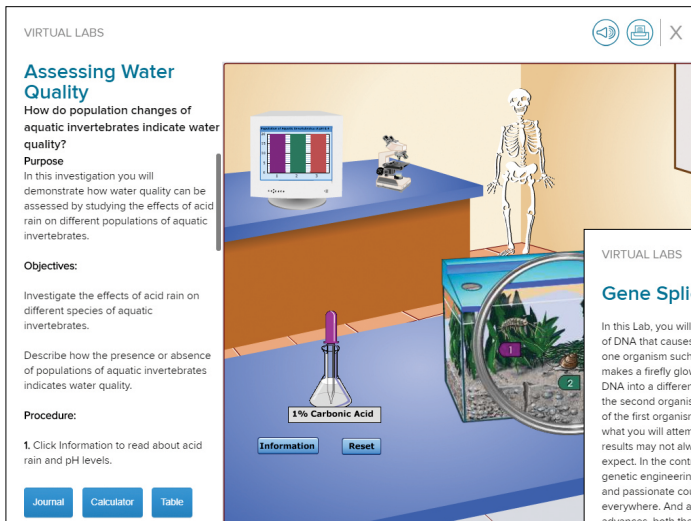
- Available 24/7 for remote or classroom learning—no lab space required.
- Easy-to-follow, on-screen instructions.
- Labs can be previewed before assigning them.
- Real-world scenarios are presented in a digital format.



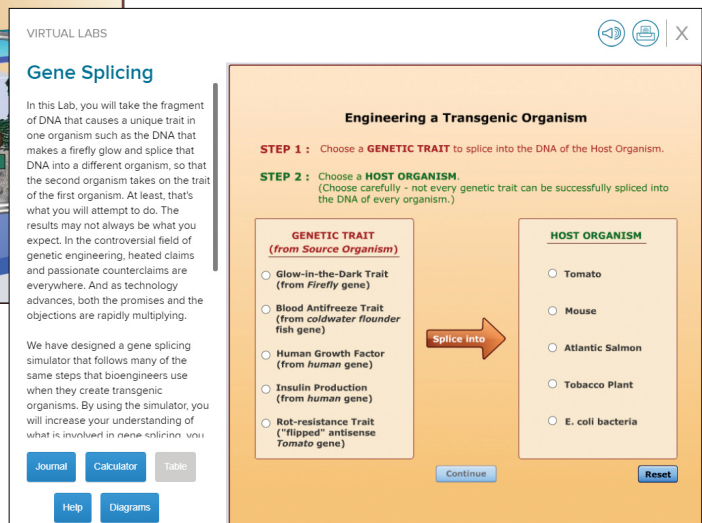
Physics: Doppler Effect

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?

[View ISBN List on page 72](#)

HIGH SCHOOL

BIOLOGY TABLE OF CONTENTS

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

CHEMISTRY TABLE OF CONTENTS

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

PHYSICS TABLE OF CONTENTS

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

EARTH SCIENCE TABLE OF CONTENTS

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

[View ISBN List on page 72](#)

Inspire Science



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.

Sample report. Progress overview for section: test class

0-25% 26-50% 51-75% 76-99% 100%

Learner	Time spent (hh:mm)	Chapter 1. Classifying and Exp...	Chapter 2. Cell Structure and ...	Chapter 3. From a Cell to an O...	Chapter 4. Reproduction of Org...	Chapter 5. Genetics	Chapter 6. The Environment and...	Chapter 7. Bacteria and Viruse...	Chapter 8. Protists and Fungi	Chapter 9. Plant Diversity	Chapter 10. Plant Processes an...
Assignments		Self-study	Self-study	Self-study	Self-study	Self-study	Self-study	Self-study	Self-study	Self-study	Self-study
Average progress	0:07	90%	91%	91%	92%	90%	87%	88%	89%	91%	89%
Student, 33	0:07	92%	90%	83%	97%	89%	86%	82%	86%	94%	93%
Student, 1	0:07	94%	71%	91%	96%	96%	93%	81%	84%	98%	96%
Student, 43	0:07	92%	98%	97%	99%	89%	94%	95%	83%	99%	90%
Student, 34	0:07	99%	93%	90%	94%	95%	93%	91%	90%	93%	98%
Student, 2	0:07	82%	95%	87%	90%	91%	82%	82%	95%	92%	85%
Student, 44	0:07	86%	84%	95%	94%	80%	93%	97%	83%	87%	98%
Student, 35	0:07	98%	96%	97%	91%	95%	94%	97%	86%	96%	96%
Student, 3	0:07	93%	99%	86%	81%	95%	94%	84%	94%	99%	87%
Student, 45	0:07	96%	91%	90%	91%	98%	82%	94%	90%	97%	94%
Student, 36	0:07	97%	62%	99%	94%	59%	93%	98%	92%	95%	88%
Student, 4	0:07	92%	93%	98%	86%	99%	90%	97%	82%	93%	95%
		86%	97%	89%	93%	89%	93%	89%	95%	98%	98%
		92%	90%	82%	99%	98%	84%	98%	84%	92%	97%
		96%	93%	93%	88%	84%	89%	89%	95%	99%	99%
		93%	99%	93%	89%	85%	94%	94%	94%	97%	

Sample report. Most challenging objectives for section:

- Module: Chapter 1. Classifying and Exploring Life
 - Module: Chapter 2. Cell Structure and Function
 - Cell Structure and Function: Identify the organelles of a cell.
 - Cell Structure and Function: Identify the functions of organelles.
 - Cell Structure and Function: Identify the structure and function of a cell.
 - Cell Structure and Function: Identify the structure and function of a cell.
 - Cell Structure and Function: Identify the structure and function of a cell.
 - Module: Chapter 3. From a Cell to an Organism
 - From a Cell to an Organism: Identify the structure and function of a cell.
 - From a Cell to an Organism: Identify the structure and function of a cell.
 - From a Cell to an Organism: Identify the structure and function of a cell.
 - From a Cell to an Organism: Identify the structure and function of a cell.
 - Module: Chapter 4. Reproduction of Organisms
 - Reproduction of Organisms: Identify the structure and function of a cell.
 - Reproduction of Organisms: Identify the structure and function of a cell.

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.

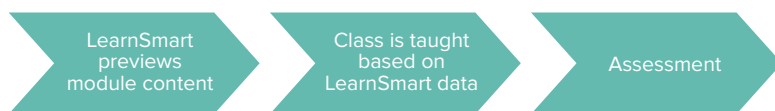
Efficient reporting tools help you maximize teaching time.

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.



www.mheducation.com.sg/inspire-science/grades6-8

Inspire Science



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



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

WALKTHROUGH

<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



<p>Unit 1 INTERACTIONS WITHIN ECOSYSTEMS</p> <p>MODULE Matter and Energy in Ecosystems</p> <p>Lesson Photosynthesis and Cellular Respiration</p> <p>Lesson Flow of Energy</p> <p>Lesson Cycling of Matter</p> <p>MODULE Dynamic Ecosystems</p> <p>Lesson Resources in Ecosystems</p> <p>Lesson Interactions Within Ecosystems</p> <p>Lesson Changing Ecosystems</p> <p>MODULE Biodiversity in Ecosystems</p> <p>Lesson Benefits of Biodiversity</p> <p>Lesson Maintaining Biodiversity</p> <p>Unit 2 LIFE: STRUCTURE AND FUNCTION</p> <p>MODULE Cells and Life</p> <p>Lesson Exploring Life</p> <p>Lesson Cell Structure and Function</p> <p>MODULE Body Systems</p> <p>Lesson Levels of Organization</p> <p>Lesson Structure and Support</p>	<p>Lesson Obtaining Energy and Removing Waste</p> <p>Lesson Moving Materials</p> <p>Lesson Control and Information Processing</p> <p>Unit 3 REPRODUCTION OF ORGANISMS</p> <p>MODULE Reproduction of Organisms</p> <p>Lesson Inheritance</p> <p>Lesson Types of Reproduction</p> <p>Lesson Depletion of Resources</p> <p>Lesson Synthetic Technology</p> <p>Lesson Reproduction and Growth of Plants</p> <p>Unit 4 CHANGE OVER TIME</p> <p>MODULE Natural Selection and Adaptions</p> <p>Lesson How Traits Change</p> <p>Lesson The Theory of Evolution by Natural Selection</p> <p>Lesson Artificial Selection</p> <p>MODULE Evidence of Evolution</p> <p>Lesson Fossil Evidence of Evolution</p> <p>Lesson Biological Evidence of Evolution</p>
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PHYSICAL SCIENCE TABLE OF CONTENTS



<p>Unit 1 ENERGY AND MOTION</p> <p>MODULE Forces and Motion</p> <p>Lesson Position and Motion</p> <p>Lesson Force and Acceleration</p> <p>Lesson How Traits Change</p> <p>Lesson Force Pairs</p> <p>Lesson Gravitational Force</p> <p>MODULE Mechanical Energy</p> <p>Lesson Kinetic Energy</p> <p>Lesson Potential Energy</p> <p>Lesson Conservation of Energy</p> <p>MODULE Electromagnetic Forces</p> <p>Lesson Magnetic Forces</p> <p>Lesson Electric Forces</p> <p>Lesson Simple Circuits</p> <p>Lesson Electromagnetism</p> <p>Unit 2 UNDERSTANDING WAVES</p> <p>MODULE Introduction to Waves</p> <p>Lesson Wave Properties</p> <p>Lesson Mechanical Wave Interactions</p> <p>MODULE Light</p> <p>Lesson How Light Travels</p> <p>Lesson Light Reflection and Mirrors</p> <p>Lesson Light Refraction and Lenses</p>	<p>Lesson Colour of Light</p> <p>MODULE Information Technologies</p> <p>Lesson Communicating with Signals</p> <p>Lesson Modern Communication with Digital Signals</p> <p>Unit 3 UNDERSTANDING MATTER</p> <p>MODULE Energy and Matter</p> <p>Lesson Particles in Motion</p> <p>Lesson States of Matter</p> <p>Lesson Thermal Energy Transfers</p> <p>MODULE Classification and States of Matter</p> <p>Lesson Energy and States of Matter</p> <p>Lesson Changes in Temperature</p> <p>Lesson State of Matter</p> <p>Lesson Molecular Structure</p> <p>Unit 4 INTERACTIONS OF MATTER</p> <p>MODULE Matter: Properties and Changes</p> <p>Lesson Properties of Matter</p> <p>Lesson Property Changes in Chemical Reactions</p> <p>Lesson Energy Changes in Chemical Reactions</p> <p>MODULE Materials Science</p> <p>Lesson Synthetic Technology</p> <p>Lesson Impacts of Synthetic Materials</p>
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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

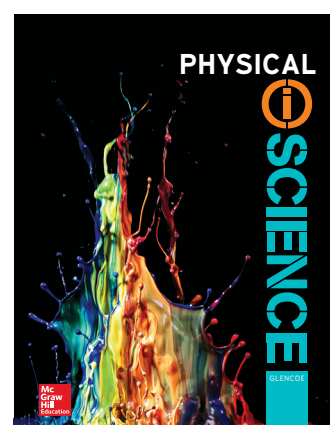
INQUIRE into the key concepts of science through our 5E lesson structure

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 UNIVERSITY

- 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

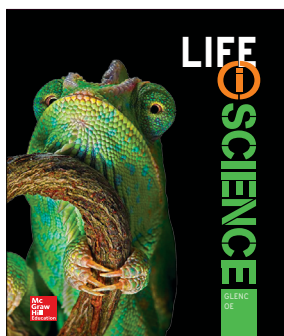
Unit 4 WATER AND OTHER RESOURCES

- 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 SCIENCE 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

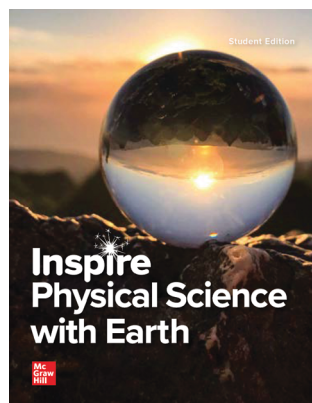
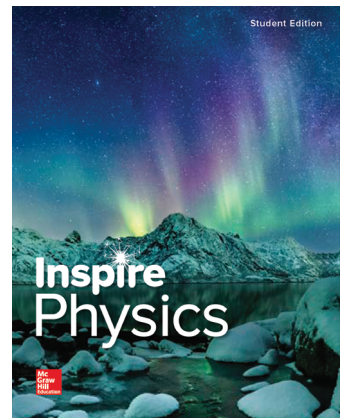
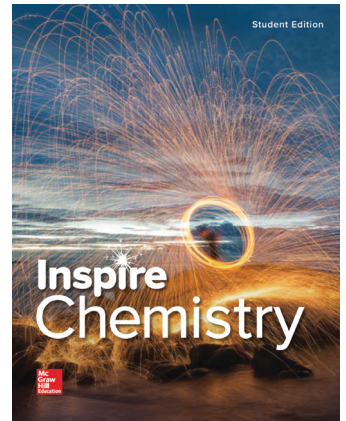
- Lesson 15 Waves
- Lesson 16 Sound
- Lesson 17 Electromagnetic Waves
- Lesson 18 Light
- Lesson 19 Electricity
- Lesson 20 Magnetism

Inspire Science



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.

The program covers structure and properties of matter, chemical bonding and reactions, matter, energy, and equilibrium, and organic and nuclear chemistry, as well as cross-curricular earth science topics. Through inquiry-based and hands-on investigations of realworld phenomenon, students will construct explanations for scientific phenomenon and design solutions for real-world problems.

Resources

- **Student Center** engages students with interactive learning resources, assessments, communication tools, and so much more.
- **Teacher Center** allows the use of a broad range of devices with an Internet connection to access your dashboard and increase your productivity with ready-made lessons and assessments, search features, a resource library and much more.
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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.

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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 4 The Dynamic Earth
Unit 1 Composition of Earth	Module 13 Plate Tectonics
Module 2 Matter and Change	Module 14 Volcanism
Module 3 Minerals	Module 15 Earthquakes
Module 4 Rocks	Module 16 Mountain Building
Unit 2 Surface Processes on Earth	Unit 5 Geologic Time
Module 5 Weathering, Erosion, and Soil	Module 17 Fossils and the Rock Record
Module 6 Mass Movements, Wind, and Glaciers	Module 18 Geologic Time Scale
Module 7 Water	Unit 6 Resources and the Environment
Unit 3 The Atmosphere and the Oceans	Module 19 Earth's Resources
Module 8 Atmosphere	Module 20 Human Impact on Resources
Module 9 Meteorology	Unit 7 Beyond Earth
Module 10 The Nature of Storms	Module 21 The Sun-Earth-Moon System
Module 11 Climate	Module 22 Our Solar System
Module 12 Earth's Oceans	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®.

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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

Inspire

Physical Science With Earth

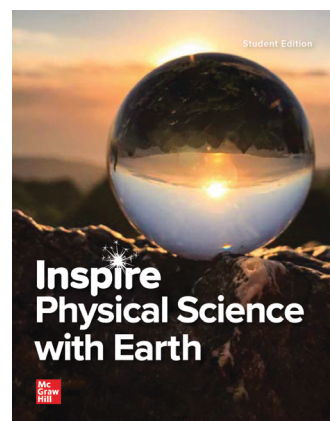
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PHYSICAL SCIENCE WITH EARTH TABLE OF CONTENTS

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

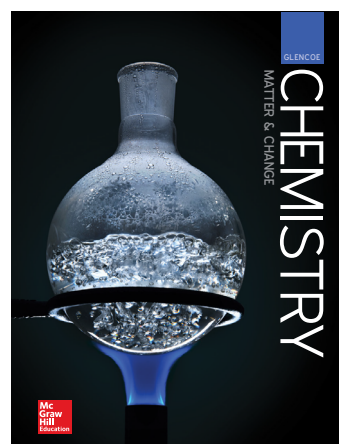
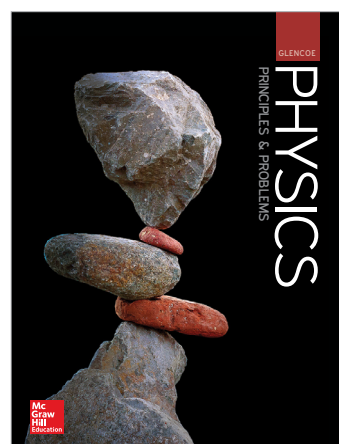
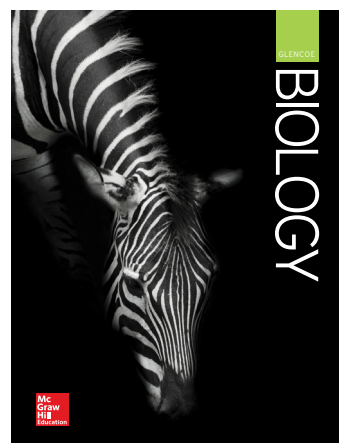
Engage High School Students with the Best Science Solutions

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:

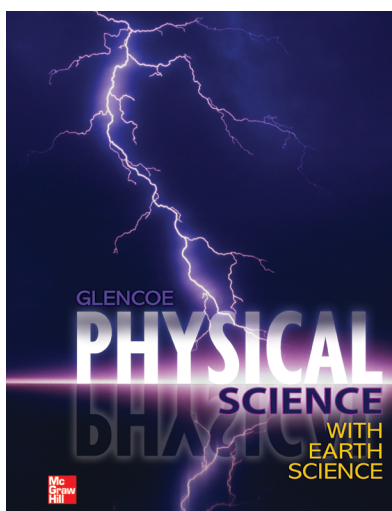
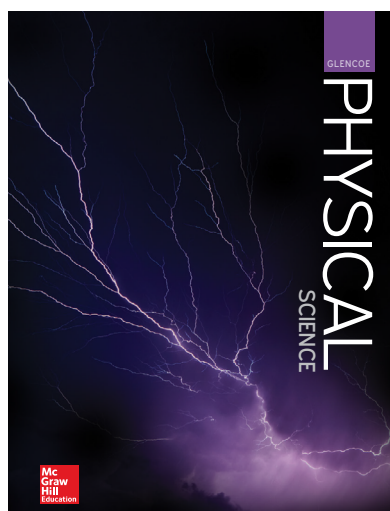
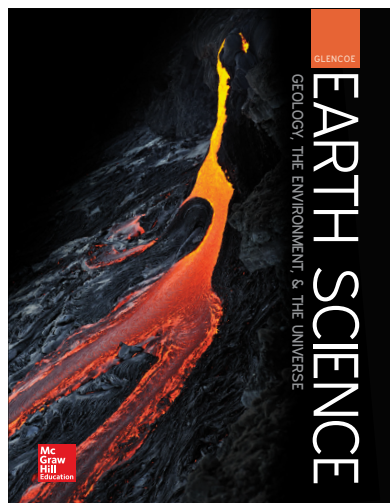
- Glencoe Biology
- Chemistry: Matter and Change
- Glencoe Physics: Principles & Problems
- Earth Science: Geology, the Environment, and the Universe
- Physical Science
- Glencoe Physical Science with Earth Science

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.

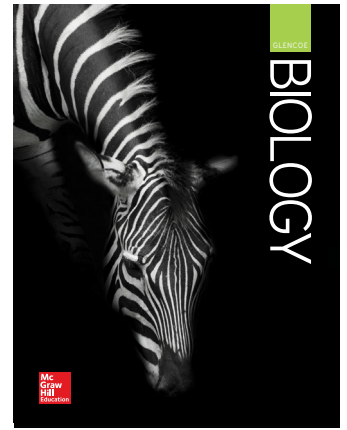


- **ConnectED Mobile App** provides 24/7 access to the ebook on your ipad or android tablet, allowing you to update your classroom management resources anywhere at any time.
- **eAssessment** supports many types of evaluations, including technology enhanced questions, online scoring and reporting for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

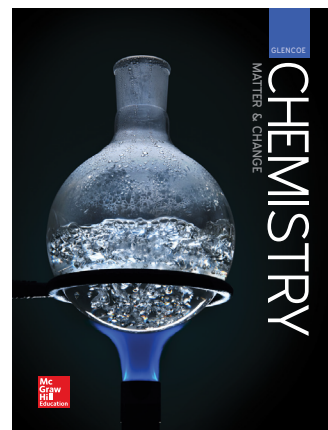


BIOLOGY TABLE OF CONTENTS

<p>1 The Study of Life</p> <p>Unit 1 Ecology</p> <p>2 Principles of Ecology</p> <p>3 Communities, Biomes, and Ecosystems</p> <p>4 Population Ecology</p> <p>5 Biodiversity and Conservation</p> <p>Unit 2 The Cell</p> <p>6 Chemistry in Biology</p> <p>7 Cellular Structure and Function</p> <p>8 Cellular Energy</p> <p>9 Cellular Reproduction</p> <p>Unit 3 Genetics</p> <p>10 Sexual Reproduction and Genetics</p> <p>11 Complex Inheritance and Human Heredity</p> <p>12 Molecular Genetics</p> <p>13 Genetics and Biotechnology</p> <p>Unit 4 History of Biological Diversity</p> <p>14 The History of Life</p> <p>15 Evolution</p> <p>16 Primate Evolution</p> <p>17 Organizing Life’s Diversity</p> <p>Unit 5 Bacteria, Viruses, Protists, and Fungi</p> <p>18 Bacteria and Viruses</p> <p>19 Protists</p> <p>20 Fungi</p>	<p>Unit 6 Plants</p> <p>21 Introduction to Plants</p> <p>22 Plant Structure and Function</p> <p>23 Reproduction in Plants</p> <p>Unit 7 Invertebrates</p> <p>24 Introduction to Animals</p> <p>25 Worms and Mollusks</p> <p>26 Arthropods</p> <p>27 Echinoderms and Invertebrate Chordates</p> <p>Unit 8 Vertebrates</p> <p>28 Fishes and Amphibians</p> <p>29 Reptiles and Birds</p> <p>30 Mammals</p> <p>31 Animal Behavior</p> <p>Unit 9 The Human Body</p> <p>32 Integumentary, Skeletal, and Muscular Systems</p> <p>33 Nervous System</p> <p>34 Circulatory, Respiratory, and Excretory Systems</p> <p>35 Digestive and Endocrine Systems</p> <p>36 Human Reproduction and Development</p> <p>37 The Immune System</p>
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Attract, enlighten and engage your students with a program that helps them “bond” with chemistry.

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



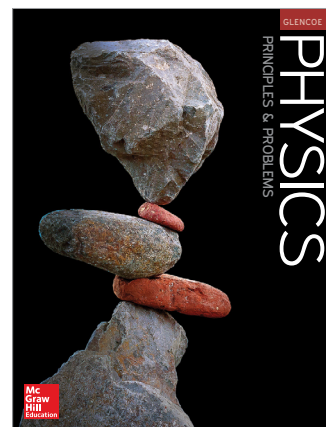
CHEMISTRY TABLE OF CONTENTS

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

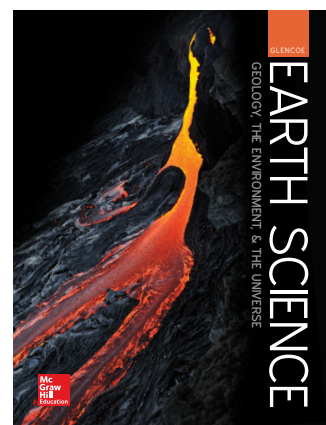
20. Static Electricity
21. Electric Fields
22. Electric Current
23. Series and Parallel Circuits
24. Magnetic Fields
25. Electromagnetic Induction
26. Electromagnetism

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

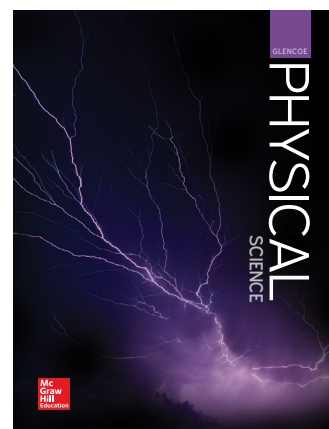
24. Earth Resources
25. Energy Resources
26. Human Impact on Resources

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.

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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

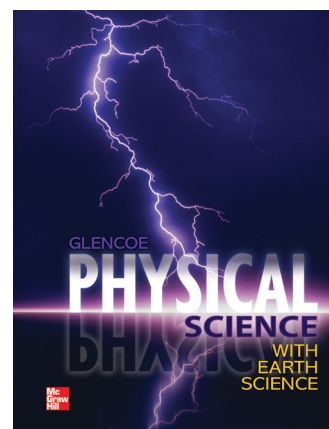
- 18 Chemical Bonds
- 19 Chemical Reactions
- 20 Radioactivity and Nuclear Reactions

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
- 8 Energy Sources and the Environment

Unit 3 Waves

- 9 Introduction to Waves
- 10 Sound
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Unit 7 Applications of Chemistry

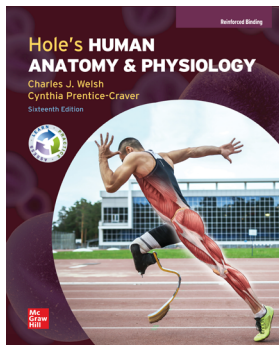
- 25 Earth's Internal Processes
- 26 Earth Materials
- 27 Earth's Changing Surface
- 28 Weather and Climate

Unit 8 Applications of Chemistry

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

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Hole's Human Anatomy & Physiology

The Comprehensive, Gold Standard Approach to Anatomy & Physiology

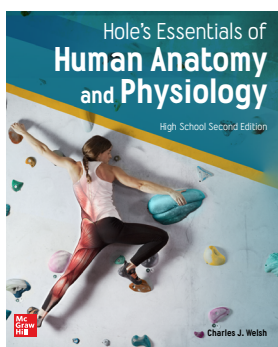
A market leader for over 40 years, Hole's Human Anatomy & Physiology delivers a comprehensive, in-depth exploration of anatomy and physiology while placing emphasis on the fundamentals for students who have little-to-no prior science knowledge. The proven Learn, Practice, Assess learning system ensures 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 77](#)

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 77](#)

New Edition!

Mader, 14th Edition ©2022

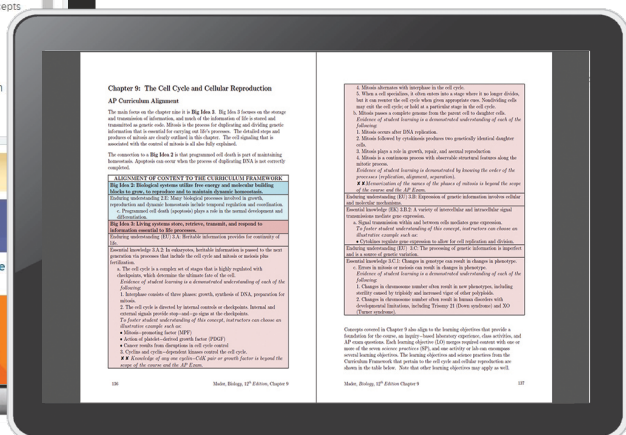
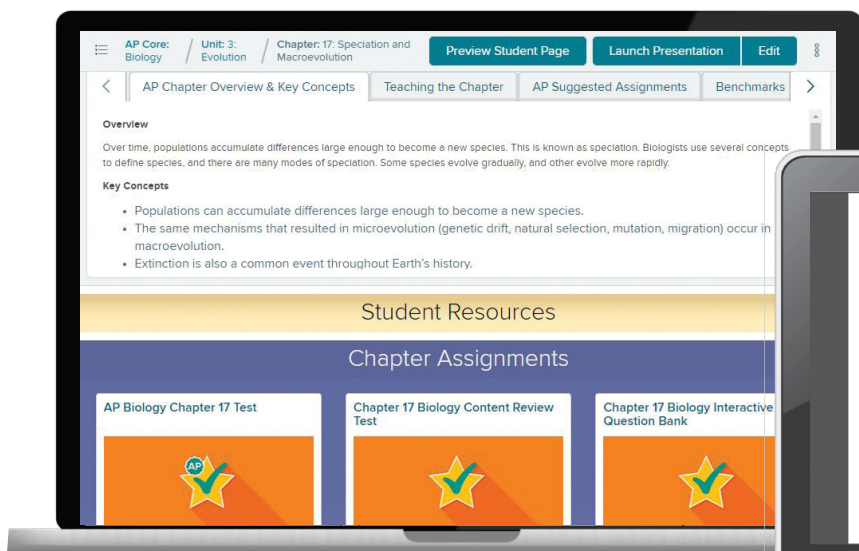


Biology, AP Edition

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.



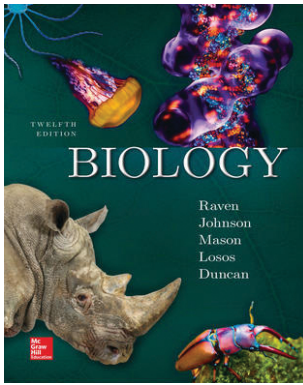
Chapter-level resources include AP overviews & key concepts, strategies for teaching the chapter, AP assignments, and benchmarks

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.

View ISBN List on page 77

ADVANCED PLACEMENT



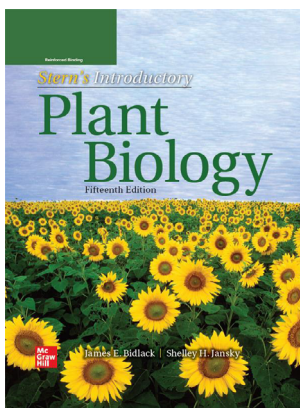
Biology

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 77](#)

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 discussions on how to cultivate vegetables and their nutritional values; and metric equivalents and conversion tables

[View ISBN List on page 77](#)

Castro • Huber, 2nd Edition © 2016



Marine Science

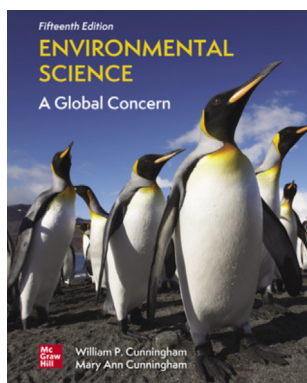
An Interconnected, Global Perspective of the World Ocean

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 77](#)

Cunningham, 15th Edition © 2021



Environmental Science: A Global Concern

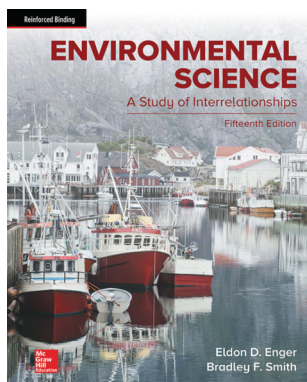
A Global View of Environmental Science

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 77](#)

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 77](#)

New Edition!

Enger, 16th Edition © 2022



Environmental Science: A Study of Interrelationships

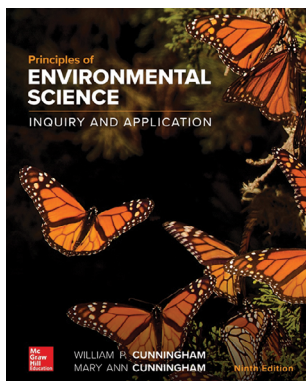
A Concise and Conceptual View of Environmental Science for Honors Courses

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 77](#)

Cunningham, 9th Edition © 2020



Principles of Environmental Science: Inquiry and Applications

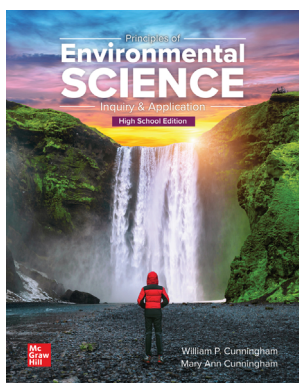
Concise Program for Introductory Environmental Science

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 77](#)


 New Edition!

Cunningham, 1st Edition © 2023



Principles of Environmental Science: Inquiry and Applications, High School

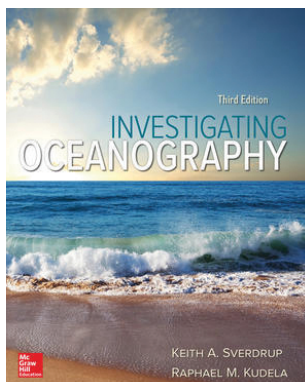
Designed for the High School Classroom

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 77](#)

Sverdrup, 3rd Edition © 2020



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

[View ISBN List on page 78](#)



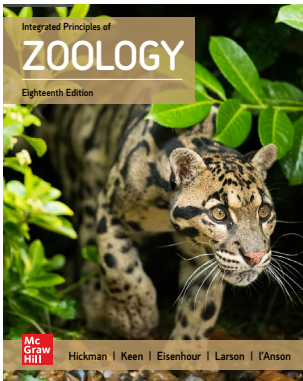
Zooology

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. Zooology 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 78](#)



Integrated Principles of Zooology

The Gold Standard for Introductory Zooology

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.

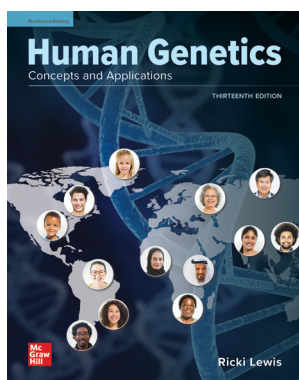
This edition also includes:

- 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.

[View ISBN List on page 78](#)


 New Edition!

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

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Mader, 16th Edition © 2020

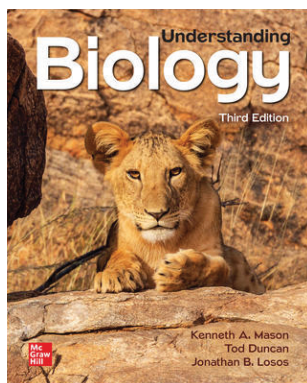


Human Biology

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.

[View ISBN List on page 78](#)



Understanding Biology

Concise and Engaging

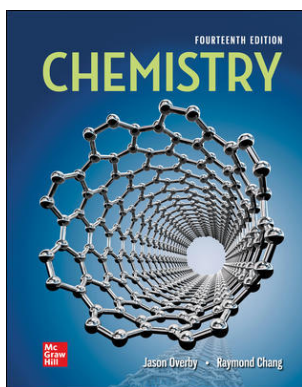
Understanding Biology emphasizes fundamental concepts to help students better understand biology and focus on developing scientific skills.

- 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.

[View ISBN List on page 78](#)

New Edition!

Chang, 14th Edition © 2023



AP[®] Chemistry

Updated for Complete AP Alignment

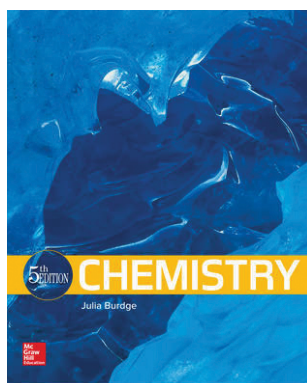
The straightforward, clear writing style and proven problem-solving strategies make Chang's *Chemistry* a favorite among teachers and students. Chapter opening Essential Questions guide students in pinpointing essential AP content while referencing the AP Units and Topics. Updated resources aligned to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

[View ISBN List on page 78](#)

Burdge, 5th Edition © 2020



Chemistry

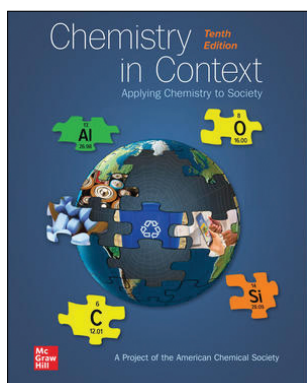
Fosters Critical Thinking and Problem-Solving Skills

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 78](#)

American Chemical Society, 10th Edition © 2021



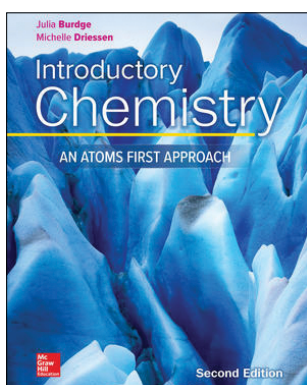
Chemistry in Context

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, 4th Edition © 2021



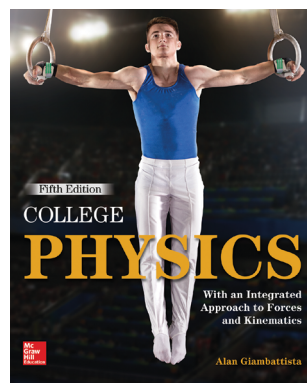
Chemistry: Atoms First

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.

[View ISBN List on page 78](#)

Giambattista, 5th Edition © 2020



College Physics

A Conceptual Framework for AP Physics

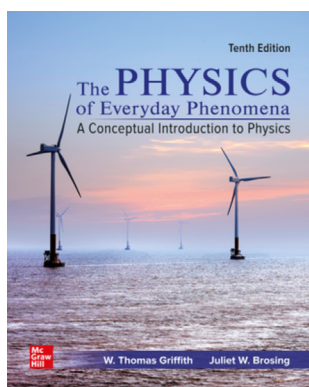
College Physics presents a unique forces-first approach to physics that builds a conceptual framework as motivation for the physical principles. This edition addresses the needs of today's students with:

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

[View ISBN List on page 78](#)

New Edition!

Griffith, 10th Edition © 2022



The Physics of Everyday Phenomena

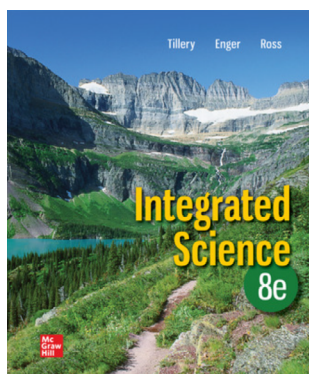
Introduction to Physics Using Real-Life Examples

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 78](#)

New Edition!

Tillery, 8th Edition © 2022



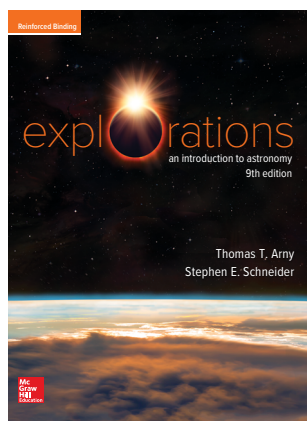
Integrated Science

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.*

[View ISBN List on page 78](#)

Burdge, 9th Edition © 2020



Explorations: An Introduction to Astronomy

A Comprehensive Solution for an Introductory Astronomy Course

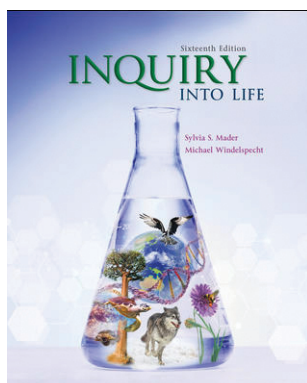
The ninth edition retains its approachability and use of analogies and examples from the world around us to help students understand more complex content. This new edition includes the latest results and analysis of exoplanets that continue to change our views about planets and planetary systems. Coverage 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 78](#)

Burdge, 16th Edition © 2020



Inquiry Into Life

Present Honors Biology From a Human Perspective

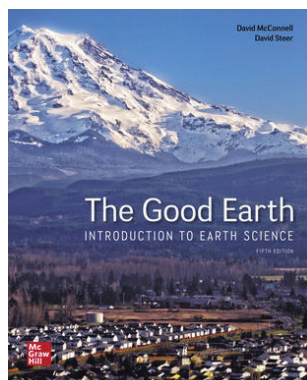
Inquiry into Life was originally developed to reach out to science-shy students. The text now represents one of the cornerstones of introductory biology education. It is founded on the belief that teaching science from a human perspective, coupled with human applications, will make the material more 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 78](#)

New Edition!

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

[View ISBN List on page 78](#)

Molles, 8th Edition © 2019

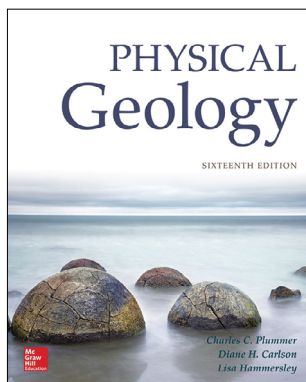


Ecology: Concepts and Applications

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.

[View ISBN List on page 78](#)

Plummer, 16th Edition © 2019

Physical Geology

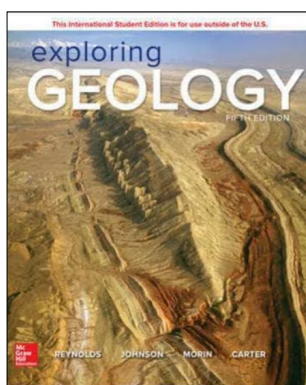
Tried and True Introductory Geology Text

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 78](#)

Reynolds, 5th Edition © 2019

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 78](#)

LEARNSMART®

COMMON CORE | ACHIEVE

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

Rooted in the Common Core and College and Career Readiness Standards, Common Core Achieve is built on the core content instruction needed for all 2014 high school equivalency exams, and includes test preparation specific to each exam.

Adaptive test preparation that pinpoints what individual students know, and don't know, and then provides a variety of learning resources to help students learn those concepts outside of the classroom. Available for all three high school equivalency exams—2014 GED® Test, TASC™ test, HiSET® exam—and all four tested content areas.

Common Core Achieve provides:

- The most comprehensive solution for the most affordable price
- Flexible learning solutions—print and digital
- LearnSmart Achieve—digital adaptive test prep with test formats matching exams and personalized learning plans
- Engaging, robust professional development for instructors.

Common Core Achieve Online Plus LearnSmart® Achieve HiSET 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 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
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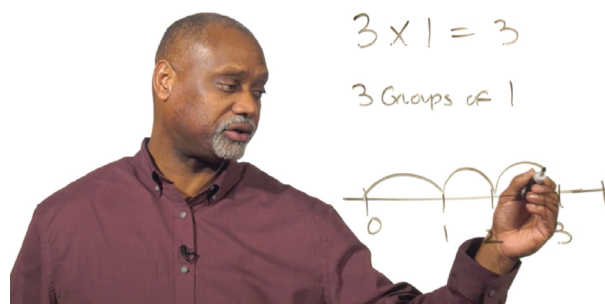
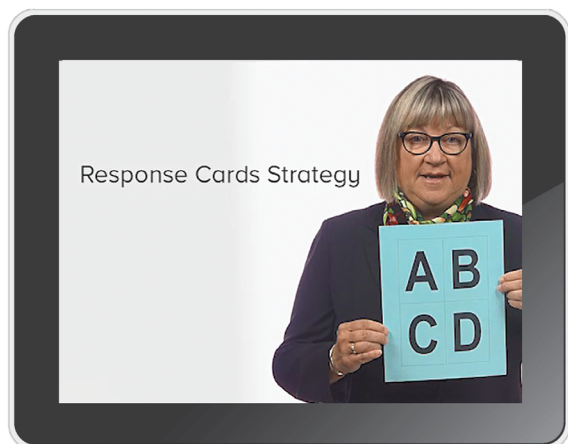
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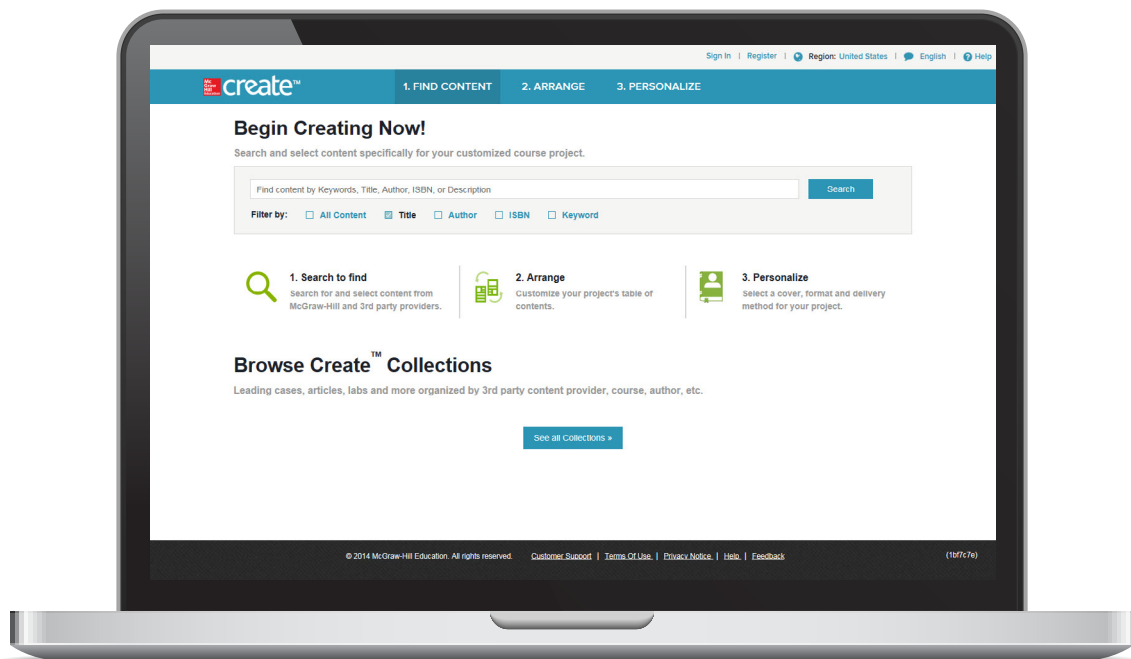
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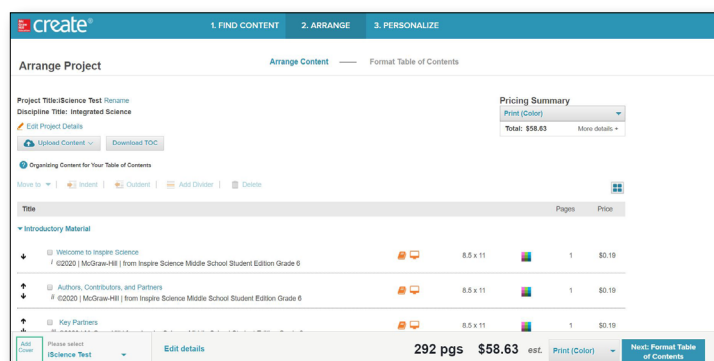
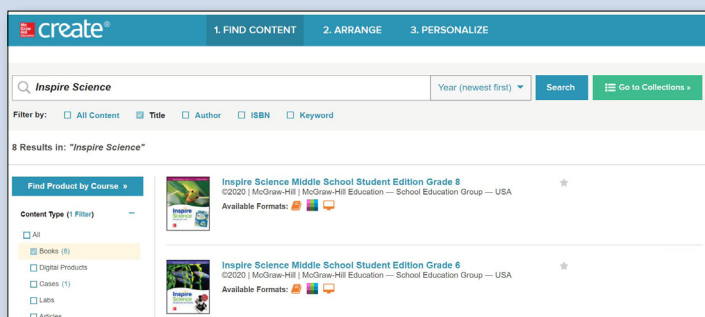
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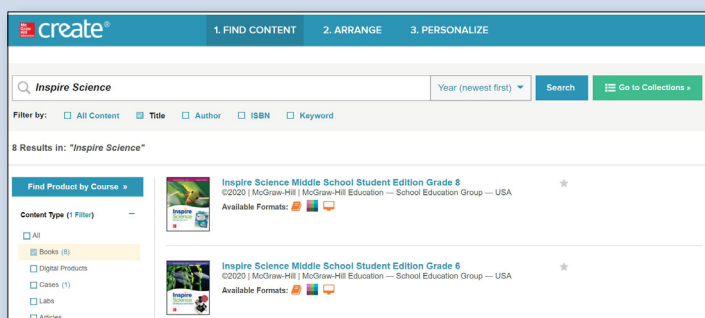


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