

GLENCOE GEOLOGY, THE ENVIRONMENT & THE UNIVERSE



Ease the Transition to Next Generation Science.

Whether your district has already adopted Next Generation Science Standards (NGSS) or is considering adopting them or any other new standards, *Earth Science: Geology, the Environment and the Universe* ensures a seamless transition.

The increased pace of change in education in the last few years has created seismic shifts in the delivery and consumption of educational materials. Students want to connect what they learn in the classroom to what they see happening in the real world – today!

We deliver to you the most effective, innovative, and inspiring high school earth science curriculum that meets both NGSS and local science standards. Whether you're looking for a hybrid digital-print or a digital-first program, McGraw-Hill Education is your trusted advisor.

With Earth Science: Geology, the Environment, and the Universe you are equipped to:

- Meet science standards **Performance Expectations** (PEs).
- Integrate Science and Engineering Practices into your science classroom.
- Apply the Disciplinary Core Ideas (DCIs).
- Correlate your lessons to NGSS.

Earth Science: Geology, the Environment, and the Universe Leveraging technology to drive personalized student success while engaging and motivating students with hands-on, project-based activities and real-world applications.

McGraw-Hill Education: Our tools, platforms, and services are focused on serving the needs of educators and learners through our purposeful technology, proven differentiated pedagogy, and unmatched professional development.

CONTENTS

Program Overviewii	Integrated Student Resources	9
Ramp Up the Engagement4	Science in Action	. 10
LearnSmart® 5	Apply Interactive Practice	. 11
Time-Saving Technology Tools6	Effective Results	. 12
Plan and Prepare On-The-Go7	eAssessment	. 13
Real-World Connections 8	Practical Professional Development	14

^{*}Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.



When you combine the science of learning with the art of teaching, there's no limit to what students can achieve.



RAMP UP THE ENGAGEMENT... To create memorable learning experiences.

To meet you wherever you are on the digital spectrum, *Earth Science: Geology*, the *Environment*, and the *Universe* interactive learning and teaching resources are easy-to-use, whether you're a technology novice, digital native, or somewhere in the middle.



ConnectED is your digital teaching platform making it easy and convenient to customize lessons, review assignments, and communicate with students.

Plan, Teach, and Assess with ConnectED.

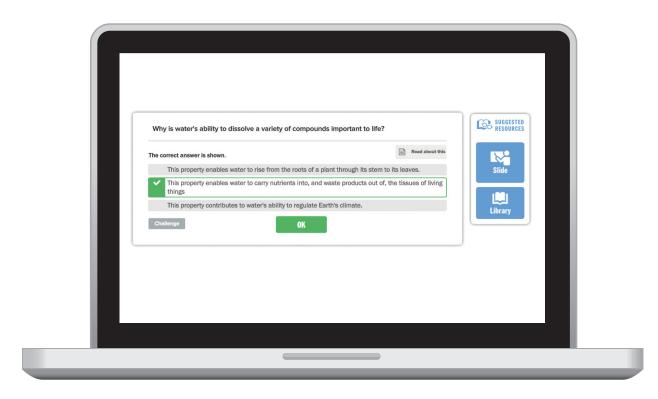
Increase Knowledge Retention with LEARNSMART.

The LearnSmart® adaptive learning engine with SmartBook® gives every student a unique learning path and every teacher the power to reach all students in

SmartBook is an eBook whose text is fully integrated with **LearnSmart** technology. As a student reads, this technology determines precisely which learning objectives he/she understands and which ones he/she struggles with, highlighting the most critical content for the student to read next.

Learning Resources close knowledge gaps by immediately clarifying the concepts the student finds most challenging.

The personalized study resources your students need today to master state assessment tomorrow



Pinpoint knowledge gaps for individual students and across classes.

Empower students to personalize their learning experiences with optimal learning paths so they spend more time on what they don't know with LearnSmart.

- Practice of basic Earth science concepts to improve recall and application before moving on
- Additional exposure and increased practice to master new concepts
- · Presentation of concepts individual students struggle to master



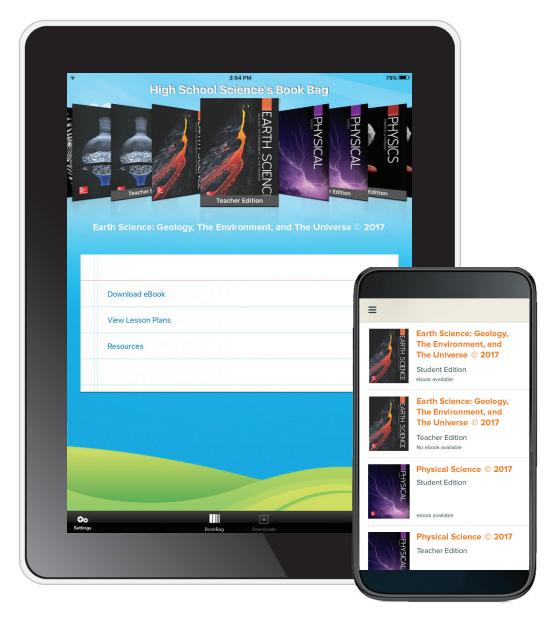
TIME SAVING TECHNOLOGY... To optimize your productivity

Give your students the resources they need on the go! The *student eBook* helps students turn Earth science in the real world into learning moments by giving students access to their program materials and resources anytime and anywhere.

Empower students to learn from earth science as-it-happens with the **student eBook** which learners can access anytime and anywhere using the Open eBook icon.

Plan and Prepare On-The-Go

The ConnectED Mobile App gives access to your Earth Science program including student eBook, planning tools, reference materials, and other program resources. ConnectED Mobile is available on select Chromebook, iOS, and Android™ devices.



Use the ConnectED Mobile App to:

- · Access all the courses available to you in ConnectED.
- Download student eBook for use offline, whenever you need it.
- Review lesson plans from the Plan & Present tab from the ConnectED Teacher Center dashboard.
- Manage the content you download to the app.
- · Retrieve a comprehensive list of resources from the Resource tab from the ConnectED Teacher Center dashboard.

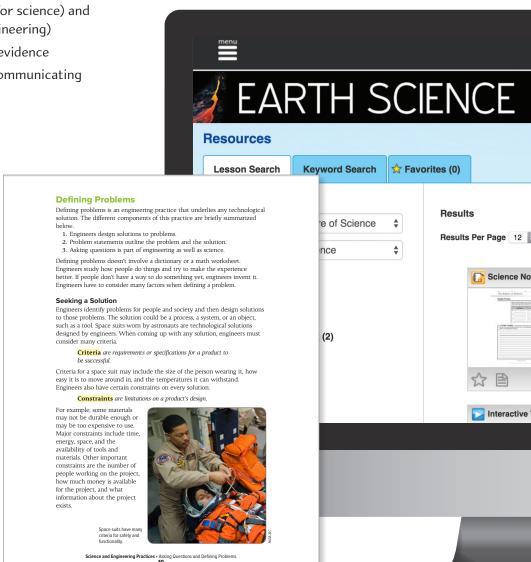
Real-World Connections

Be confident helping students achieve more! Use the *Science and Engineering Practices Handbook* to introduce the skills to students and support their scientific investigations and engineering projects.

As a reference book, the *Science and Engineering Practices Handbook* provides students with background information, definitions, examples, and Quick Practice activities to stimulate and reinforce learning.

The Science and Engineering Practices Handbook is an easy-to-use reference for all eight practices.

- 1. Asking questions (for science) and defining problems (for engineering)
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and interpreting data
- 5. Using mathematics and computational thinking
- 6. Constructing explanations (for science) and designing solutions (for engineering)
- 7. Engaging in argument from evidence
- 8. Obtaining, evaluating, and communicating information



Find the **Practices Handbook** in your teacher resources.

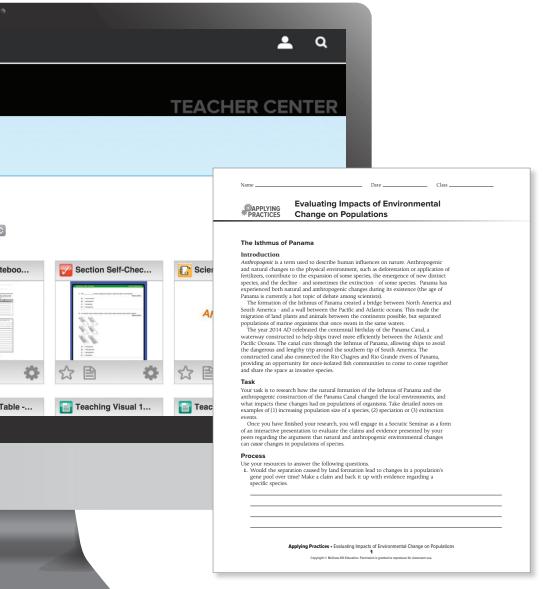
Integrated Student Resources

Written to meet each Next Generation Science Standard (NGSS) performance expectation, Applying Practices Worksheets and Project-Based Learning Activities (PBLs) challenge your students to solve real problems in the real world. These sheets are editable, downloadable, accessible online, and designed to meet specific performance expectations.

Student resources, learning activities, and worksheets are embedded for point-of-use access. Students can use these dynamic resources immediately to practice new concepts.

Students practice earth science in action with these learning tools.

- · Applying Practices and Project-Based Learning Activities that integrate traditional science content with science and engineering practices
- Design-your-own labs
- · Guided Laboratory Investigations
- Modeling activities
- Research and communicate projects



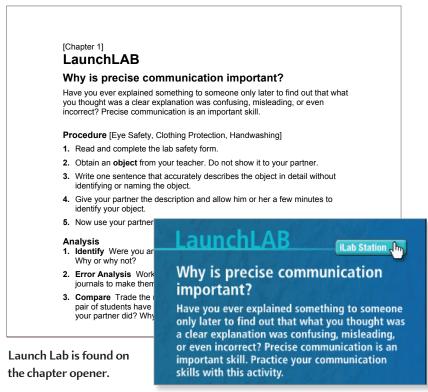
Find Applying Practice Worksheets in your teacher resources and teacher blades. Also accessible at point-of-use in student resources.

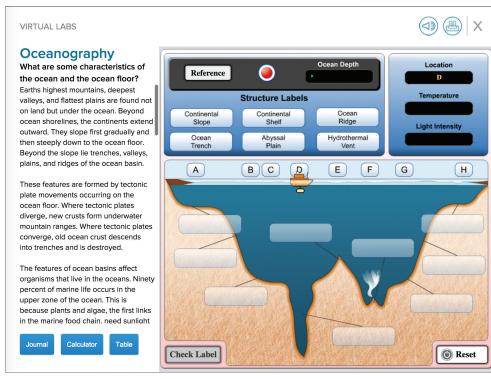
Science in Action

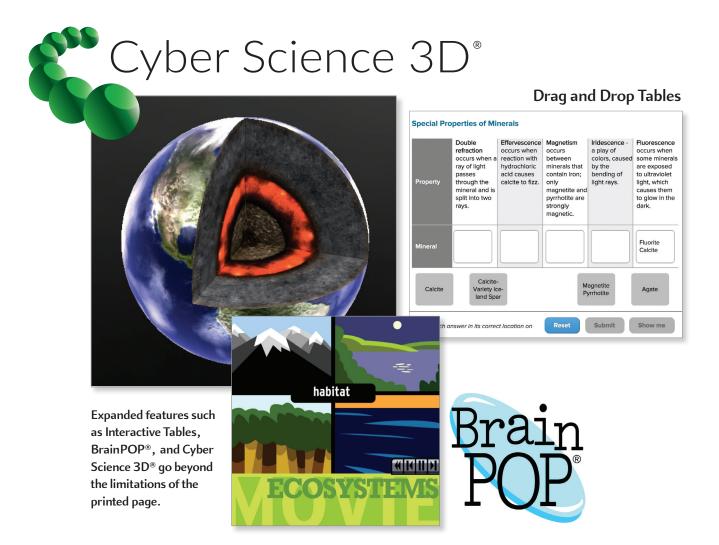
Earth Science: Geology, the Environment, and the Universe offers you diverse lab opportunities to deepen your students' understanding of science by experiencing it and experimenting with Earth science first-hand!

Use these lab activities included in every chapter to bring science to life for your students.

- Launch Labs
- MiniLabs
- Problem Solving Labs
- GeoLabs
- Lab Manual
- Exploring **Environmental Problems**







Apply Interactive Practice.

Students have their own digital learning platform called the ConnectED Student Center, complete with student worksheets and digital resources. Assignments you create appear in their to-do lists. Students can message you directly and submit their work.

Use expanded Student Center features such as Interactive Tables, BrainPOP®, and Cyber Science 3D® videos to go beyond the limitations of the printed page and bring science into your student's lives like never before.



EFFECTIVE RESULTS...

To support student success

Easy-to-use eAssessment with reporting tools equip you with the data you need to make informed instructional decisions and keep students engaged.

- eAssessment supports diverse types of evaluations and includes online scoring and report generation for digital and/or print distribution.
- · Professional Development resources including pertinent information on new science standards and implementation best practices are available to you at point-of-use.

Turn Students into Star Performers with



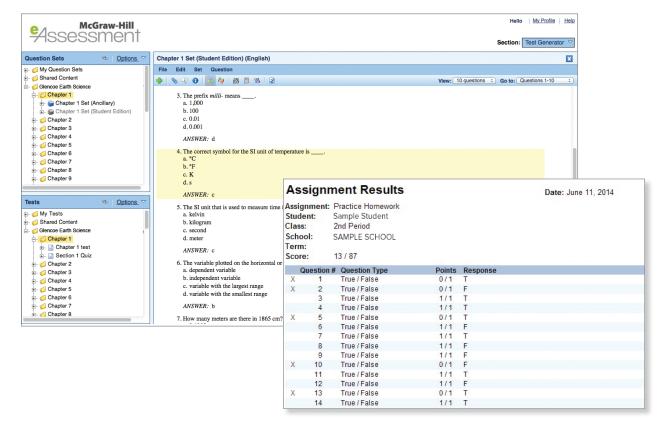
Turn your classroom into a earth science success center with eAssessment suite – a robust resource – giving you powerful tools to assess student progress and make data-driven instructional decisions.

The eAssessment reporting feature means you'll always have access to valuable data on individual students and whole classes to help you differentiate and support student mastery of concepts appropriately.

Other features of eAssessment to help increase your efficiency include:

- Question Bank with questions organized by strand, subject, and lesson.
- Report generation on proficiency and accuracy.
- Create and customize premade diagnostic and summative evaluations.

Identify students with knowledge gaps to make data-driven instructional decisions with eAssessment.



eAssessment suite collects valuable data for every student and the class.

Practical Professional Development

The right tools make all the difference in getting your work done efficiently. Seamlessly embedded digital resources and the convenient print materials of *Earth Science: Geology, the Environment, and the Universe* gives you everything you need to make science relevant, rigorous, and possible for every student. Designed on the principles of effective professional development (PD), *Earth Science: Geology, the Environment, and the Universe* PD includes self-paced courses, Foldables® and NGSS videos, and on-demand webinars.

Get Started

Online, self-paced Quick-Start course designed to get teachers and administrators up and running fast.

Learn More

Online Implementation course designed to help teachers connect professional learning to the classroom.

Watch It

Videos from Dinah Zike and on-demand webinars and videos support great instruction in the classroom.



Where and When You Need It

In just a few clicks, you can quickly access relevant, timely, and ongoing Professional **Development** videos and webinars available to you, on-demand.

Directly embedded in Earth Science: Geology, the Environment, and the *Universe* is your interactive professional learning program. Learn how other science educators have successfully implemented the program and increase your awareness of new science standards.

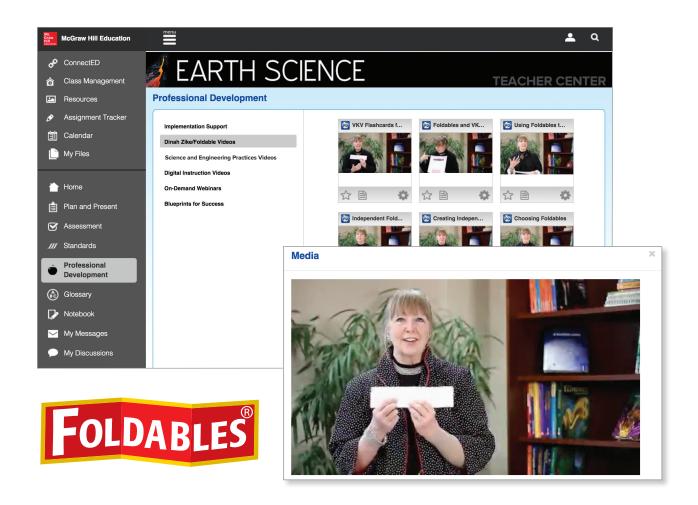
Relevant Resources for science educators

Rich, web-based resources include modeled classroom instruction videos, implementation support, technology resource optimization, and professional learning community support.

Use the ConnectED **Professional Development** tab to access on-demand webinars and these free video libraries:

- Dinah Zike/Foldable Videos
- · Science and Engineering Practices Videos
- · Pedagogical/Instructional Support Videos
- · On-Demand Webinars

Customized, comprehensive, and expertly-crafted solutions translate into meaningful program success.



GLENCOE

EARTH SCIENCE

GEOLOGY, THE ENVIRONMENT & THE UNIVERSE



Sample and Discover Online mheonline.com/glencoescience

