Florida High School Science is about connecting science content, rigor, engagement and adaptive instruction for student success.

As your trusted partner we deliver to you an effective, innovative and inspiring high school biology science curriculum that meets your Florida state standards.

With Florida Science you’ll find the essential tools to support your classroom needs.

- LearnSmart® adaptive learning technology with integrated Smartbook®
- Robust Assessment Support
- PBL's & Rigorous student materials
- Inquiry-Based Learning
- Engaging student content
- Practical Professional Development

Florida Science gives you the freedom, flexibility, and resources to create unique lessons that will prepare students for success in the classroom - and in STEM-related careers.
Help students learn faster, study more efficiently, and retain more knowledge.

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

SmartBook® is an eBook whose text is fully integrated with LearnSmart® technology. As a student reads, this technology determines precisely which learning objectives each student understands or struggles with, highlighting the most critical content for the student to read next.

Pinpoint knowledge gaps for individual students and across classes

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

- Practice of basic 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.
Support Each Student’s Unique Needs

LearnSmart® is a proven adaptive learning program that helps students’ success by providing a personalized learning path that’s based on their responses to questions, as well as their confidence about the answers they provide.

Using revolutionary adaptive technology, LearnSmart® builds a learning experience unique to each student’s individual needs.

LearnSmart® gives students an advantage - improving learning outcomes by ensuring every minute a student spends studying is the most productive minute possible.

Maximize Study Time

- Within LearnSmart®, discover Smartbook®, the only adaptive reading experience designed to transform the way students read.

- The interactive challenge format highlights content and helps each student identify content they know, don’t know, and are most likely to forget.

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

- Teachers receive detailed reports of student progress.

Access a LearnSmart® Demo at www.connected.mcgraw-hill.com

Username: FL612SCIDEMO  |  Password: fl2018science
Robust Assessment Support

Take student achievement to the next level with Online Assessment

**Online Assessment** gives you the ability to monitor students’ progress and make data-driven instructional decisions.

- Use Online Assessment to create tests and assignments.
- Access to Florida-specific Online Assessment questions available at each course level.
- Professional development resources include pertinent information on science standards and implementation best practices, available 24/7.

**Online Progress Checks**

The built-in assessment strand keeps your students on track to pass the EOC.

- Online Chapter Diagnostic Test worksheets
- In-text caption questions, Get It? reading checks, and lesson Review It!
- In-text Chapter Assessment
- In-text Cumulative Test Prep
- Online Section Quick Checks and Online Quizzes
- Online Chapter Test worksheets
ConnectED is a time-saving online portal that has all of your digital program resources in one place.

ConnectED allows you to:

- Build lesson plans with easy-to-find print and digital resources.
- Search for activities to meet a variety of learning modalities.
- Teach with technology by providing virtual labs, lesson animations, whole-class presentations and more.
- Personalize instruction with print and digital resources.
- Provide students with anytime, anywhere access to student resources and tools, including eBooks, tutorials, animations, and the eGlossary.
- Access to Online Assessment, track student progress, generate reports, and differentiate instruction.

With ConnectEd Mobile you can browse your course content on the go.

The app includes a powerful eBook engine where you can download, view, and interact with your books.
Florida Science offers you diverse lab opportunities to deepen your students’ understanding of Science.

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

- Launch Labs
- MiniLabs
- Lab Manuals
- Virtual Labs

More lab resources are available to you through ConnectED.

- Forensic Labs
- Open Inquiry Labs
- Guided Inquiry Labs
- Probeware Labs
- Video Labs

Launch Lab is found on the chapter opener.
Expanded features such as Personal Tutor, BrainPOP®, and VIVED® go beyond the limitations of the printed page.

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 Personal Tutor, BrainPOP®, and VIVED® videos to go beyond the limitations of the printed page and bring science into your students’ lives like never before.
Engage and motivate students with hands-on project-based activities and real-world applications.

Project-Based Learning (PBLs) Activities
Integrate traditional science with science of learning.

- Student-driven projects
- Problem-based learning projects
- Applying Practices projects targeting specific science and engineering practices
- Design Your Own Labs

Science and Engineering Practices Handbook

- Support students in their scientific investigations and engineering projects.
- Online reference book.
- Provides students with background information, definitions, examples, and Quick Practice activities.
Inquiry Based Learning

Activity Before Content
Start your students discussing what they know and what they want to learn using
- Real-world phenomena or applications
- Essential Questions
- Launch Labs
- Focus on Florida NGSSS

Investigate and Discover
Spark ideas for students inquiry with numerous options.
- Data Analysis Labs
- MiniLabs
- Applying Practices activities
- PBLs
- ChemLabs
- Virtual Labs
- WebQuests
- Guided Inquiry activities
- Open Inquiry activities
- *The Science and Engineering Practices Handbook*
Rigorous Differentiation Support

Improve students’ reading skills will improve their success in the science classroom.

Differentiation Support

Address multiple learning styles using activities tailored for
- Approaching level
- On level
- Beyond level
- English Language Learner (ELL)

Study Notebook

Volcanism

SECTION 1 Volcanes

Vocabulary:
- convergent
- hot spot
- flood basalt
- fissure
- conduit
- vent
- crater
- caldera
- shield volcano
- cinder cone
- composite volcano

Scan the photos and read the captions in this section. Write two questions you think may be answered in this section.

1. _____________________________
2. _____________________________

Use your text to define the following term.
_________________________________________________________________
_________________________________________________________________

Use your text to define each term.
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

MAIN IDEA

DETAILS

Review Vocabulary

New Vocabulary

Volcanism

Date ________________________

Period ________________________

Name _______________________________________

Chapter Preview

Before you read the chapter, use the “What I Know” column to list three things you know about volcanoes. Then list three questions you have about volcanoes in the “What I Want to Find Out” column.

K What I Know
What I Want to Find Out
1. ____________________________
2. ____________________________
3. ____________________________

1. ____________________________
2. ____________________________
3. ____________________________

Think about the Launch Lab you did to model magma movement and record your responses in this science journal.

Describe what happened to the oil when it entered the beaker.
________________________________________________________________________________________
________________________________________________________________________________________

Describe what happened when salt was added to the oil.
________________________________________________________________________________________
________________________________________________________________________________________

SCIENCE JOURNAL

10 Florida Science
Student Engagement

Create a teaching environment in which students are curious and actively engaged in learning.

**Student Digital Resources**

Your Florida Science program offers a variety of digital assets and interactives that bring abstract concepts to life and make your presentations even more engaging.

- Florida Science ebook
- Videos
- Animations and simulations
- Virtual Labs
- Personal Tutors
- BrainPOPs
- Vocabulary eGames

**Practice Professional Development**

**Designed on the principles of effective professional development, Effective Professional Development**

- Self-paced courses
- Foldables
- Science and Engineering Practice Videos
- On-demand webinars
To learn more about the Florida Science program, visit mheducation.com/prek-12 or contact your Florida Sales Representative.