



Inspire
Science



SPARK THEIR CURIOSITY

K–5 ©2027 Brochure



Encourage Young Students to Explore Their World

We live in a world brimming with wonder—where natural phenomena, big and small, ignite curiosity and fuel discovery. Children are natural problem-solvers and innovators, approaching each day with boundless curiosity and a drive to learn. ***Inspire Science*** taps into this innate curiosity, empowering students to explore, question, and understand the world around them through dynamic, hands-on learning experiences.

By fostering curiosity, critical thinking, and a passion for discovery, ***Inspire Science*** equips today's learners to become tomorrow's scientists, engineers, and innovators.

Explore how *Inspire Science* helps empower the next generation of problem-solvers.

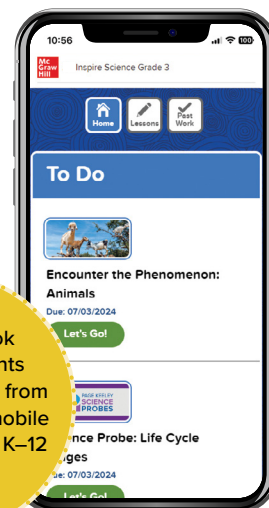
Bring Science to Life in Your Classroom

Engaging, Flexible, Cross-Curricular Learning

Inspire Science is designed to support phenomena-based, three-dimensional learning, empowering students to explore, ask questions, and think critically. With foundational science knowledge and essential problem-solving skills, students are prepared to thrive in an ever-evolving world.

With flexibility at its core, **Inspire Science** offers modular write-in student worktexts, adaptable teacher materials to fit your schedule, hands-on labs, dynamic videos, thoughtful differentiation support, on-demand professional development, and more. These resources work together to equip educators with everything needed to spark curiosity and foster discovery.

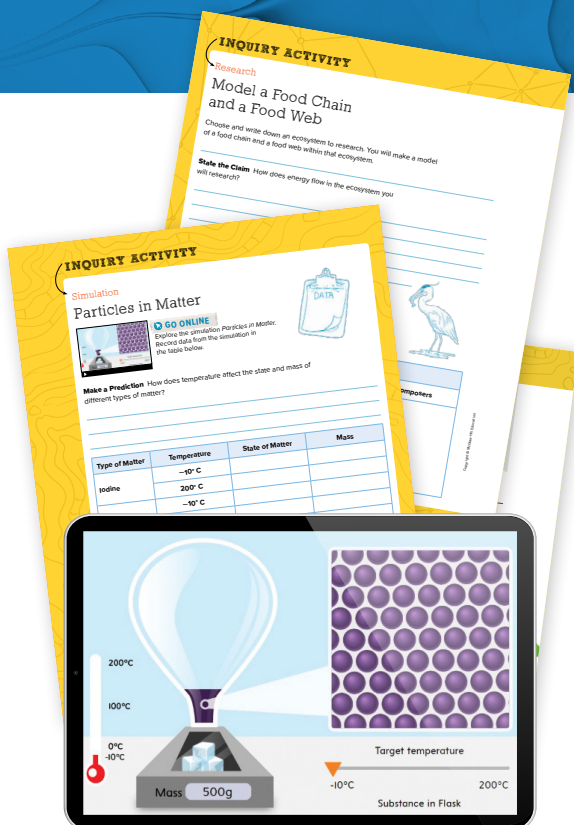
Student eBook
and assignments
can be accessed from
anywhere on a mobile
device using the K–12
Portal App!





Empower Students with Inquiry

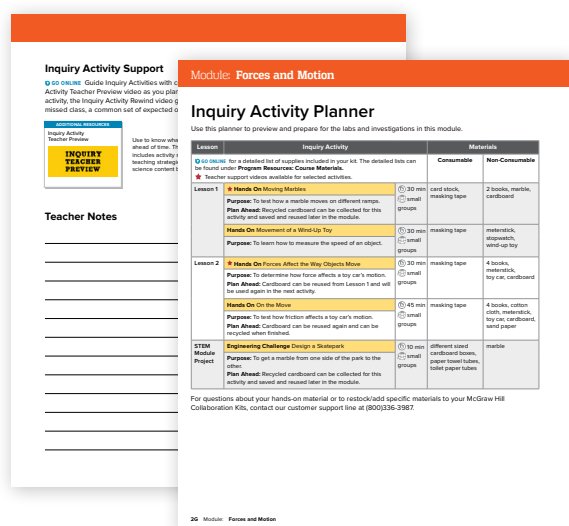
While working through Inquiry Activities in each lesson, students use the same techniques as scientists and engineers to ask questions, think critically, and design solutions to real-world problems. Easily implementable in any classroom, Inquiry Activities drive home science topics in meaningful, engaging ways.



Real-World Discovery

Different types of Inquiry Activities in **Inspire Science** enable students to investigate phenomena and record findings the same way real-world practitioners do:

- Hands-on
- Data analysis
- Research
- Simulations
- Engineering



Inquiry Activity Planning

Planning and preparing for students to become elbows-deep in science is made easier with the **Inspire Science** Inquiry Activity Planner, which clearly identifies all the materials needed within the module.

Inquiry Rewind Videos:

- Encourage student engagement.
- Show the activity materials and the step-by-step procedure.
- Demonstrate the expected outcomes for each step of the activity.
- Provide opportunities for students to pause the video and utilize the Claim, Evidence, and Reasoning skills they have learned through **Inspire Science**.
- Support easy implementation for new teachers, substitute teachers, absent students, or remote learning.



Collaboration Kits

When students are engaged in their learning, they succeed, and nothing is more engaging than rolling up your sleeves and digging into hands-on activities. Developed specifically for group projects, the **Inspire Science** Collaboration Kits make it easy to implement hands-on activities in your classroom—freeing you to focus on the activity itself.





Fuel Student Engagement

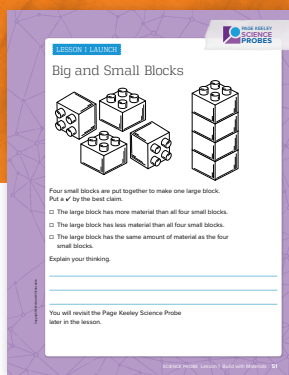
What happens when students are truly engaged?

The classroom has a buzzing undercurrent, students have an increased focus, and they are waiting to see what comes next. **Inspire Science** helps you fuel that engagement with features that keep students interested.



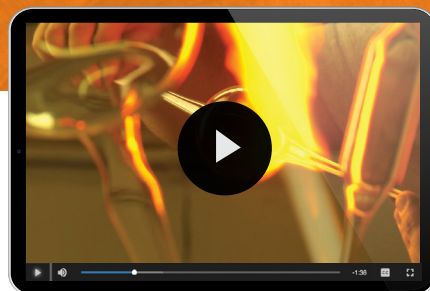
STEM Career Connections

Introduce students to real-world STEM professions that they may have one day. Students will learn about careers and apply what they have learned to a related assignment. The wide variety of connections, whether real-world or avatar-based, represents a broad range of careers, from jobs that require a high-school education to those that require a Ph.D.



Page Keeley Science Probes!

When students do the talking, it is evidence that they are thinking and provides you with an avenue to uncover and resolve preconceptions or misconceptions.



Visualizing Phenomena in Action

Phenomenon Videos enable students to observe scientific topics in action, providing a visual experience that encourages thinking and collaborative conversations.

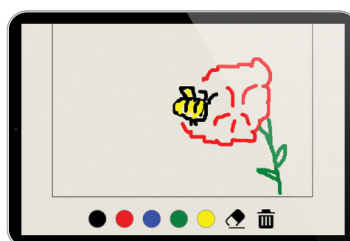
Types of Interactive Resource

In the **Inspire Science** digital experience, students will interact with a wide variety of digital content types that make learning science engaging and fun.

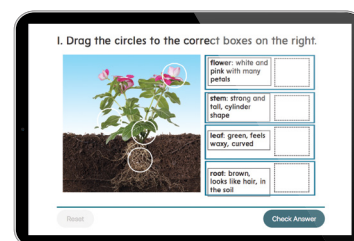
Why Go Online?

The following list is a few of many offerings for **Inspire Science**:

- Engaging interactive content
- Video demos of hands-on activities
- Science content videos
- Text read aloud and highlighting features
- Dynamic search tools



Drawing Tool



Drag and Drop



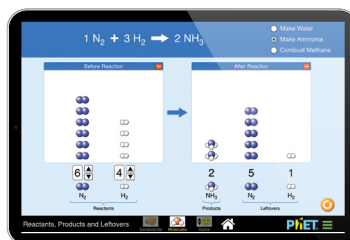
Science Content Videos



Pop Tips



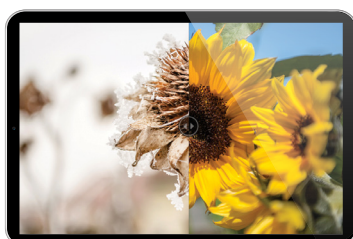
Phenomena Videos



Simulations



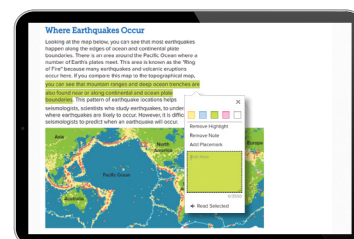
Games



Layer Reveal



Kahoot! Review



Interactive Text





Teach Your Way

Within the lesson opener, find the extension of Building to Performance Expectations to help focus student learning by standard and integrated Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts.

Connections to the ELA Standards help teachers and students make connections to literacy activities.

Flexibility for Every Schedule

Discover adaptable options to fit any classroom schedule and student need. The Full Track, two FlexTracks, and the online Essential Lesson Guide seamlessly integrate science into literacy instruction, helping students develop reading, writing, listening, and speaking skills while engaging with scientific concepts.

Lesson 1: Motion		
Lesson at a Glance		
Full Track is the recommended path for the complete lesson experience. FlexTrack A and FlexTrack B provide time-saving strategies and alternatives.		
Full Track 45 minutes (20 days)	FlexTrack A 30 minutes (10 days per week)	FlexTrack B 20 minutes (5 days per week)
Day-to-Day	FlexTrack A	FlexTrack B
Assess Prior Knowledge Page 6: Mystery Science Probe: Why Does It Move?	Page 6: Mystery Science Probe: Why Does It Move?	Page 6: Mystery Science Probe: Why Does It Move?
Engage Encounter the Phenomenon: Why does the ball move the way it does?	Page 7: Video: Encounter	Page 7: Video: Encounter
Explore Inquiry Activity: Moving Marbles	Page 8-9: Set up ranges for students ahead of time.	Page 8-9: Set up ranges for students ahead of time.
Elaborate Objects Move	Page 10-11: Guided questions 1-3	Page 10-11: Guided questions 1-3
Evaluate Motion	Page 12-13: Video: Patterns in Motion	Page 12-13: Video: Patterns in Motion
Transfer Types of Motion Situations	Page 14	Page 14
Elaborate STEM Connection: Statistics	Page 15	Page 15
Evaluate Inquiry Activity: Movement of a Wind-Up Toy	Page 16-17	Page 16-17
Evaluate Capitol the Phenomenon: Why does the ball move the way it does?	Page 18-19	Page 18-19
Evaluate Monitor Project Planning	Page 20	Page 20
7 Days	7 Days	4 Days

Module: Electricity and Magnetism

Lesson 2: Magnetism and Designing Solutions

WEEK 1 60 min

MODULE OVERVIEW 10 min

GO ONLINE

- Review the module phenomenon photo of the electromagnet.
- Review the phenomenon *Electromagnet*.

TEACHER EDITION

Facilitate classroom discussion using the Talk About It questions on page 47.

LEARNING TRANSFER STRATEGY GUIDE

Use pages 18–19 to review the SEP and CCC prompts.

STUDENT EDITION

Have 10 more minutes? Start with the Page Keeley Science Probe on page 67.

ENGAGE 15 min

GO ONLINE

- Project the lesson phenomenon photo of iron filings.
- Check out the phenomenon *Magnetic Interactions*.

TEACHER EDITION

Facilitate classroom discussion using the Talk About It questions on page 69.

LEARNING TRANSFER STRATEGY GUIDE

Use pages 22–23 to Encounter the Phenomenon.

EXPLORE

Magnet Investigation

How much time do you have to explore this concept?

Choose your inquiry path:

- 35 min Conduct the inquiry activity.
- 15 min Complete the inquiry activity as a demonstration.
- 10 min Watch the Inquiry Rewind video.

WEEK 2 60 min

EXPLAIN 35 min

GO ONLINE

- Watch the Inquiry Rewind video *Magnet Investigation* to review Week 1.
- Watch the video *Magnets Solve Problems*.

STUDENT EDITION

Read *Magnets and Magnetic Field*, pages 72 and 73.

TEACHER EDITION

Review vocabulary on pages 72 and 73.

LEARNING TRANSFER STRATEGY GUIDE

Use pages 22–23 to Discuss the Phenomenon.

EVALUATE 15 min

STUDENT EDITION

Complete the Lesson 2 Review on page 83.

LEARNING TRANSFER STRATEGY GUIDE

Use pages 22–23 to Connect the Phenomenon.

THREE-DIMENSIONAL THINKING 5 min

LEARNING TRANSFER STRATEGY GUIDE

Use pages 22–23 to put it all together with a three-dimensional question.

MODULE WRAP-UP 5 min

TEACHER EDITION

Facilitate classroom discussion using the questions on page 91.

Essential Lessons

The Essential Lesson Planning Guide is a lesson plan designed for teachers looking to address all the NGSS Grade Level Standards in 60–90 minutes per week. The Essential Lesson Planning Guide helps make the most of limited science instructional time.



Maximize Cross-Curricular Connections

Inspire Science seamlessly integrates literacy, math, and critical thinking into science instruction. Activities like reading informational texts, analyzing data, and writing explanations help students build essential skills while deepening their scientific understanding.

For fourth and fifth graders, these connections prepare them for middle school science by fostering critical-thinking and problem-solving abilities across disciplines.

Close Reading

Inspect
Read the passage.
Electric Current.
Underline text evidence that tells how people use electric currents.

Find Evidence
Reread Highlight text that tells what a circuit needs to have energy flow.

Notes

Electricity is needed to power lights and appliances.

Electric Current

Charged particles can build up on an object. They can also be made to flow. A flow of charged particles is called an electric current. You use electric current every day. Electric current provides the energy you need to power lights, radios, computers, and many other products. We use energy from electric current to produce light, sound, and motion.

This is an example of a simple circuit using a battery.

Make Connections
Talk About It
Think about how energy flows in static electricity. Compare it to how energy flows in a circuit.

Notes

Electric current needs a path through which to flow. A circuit is a path that is made of parts that work together to allow current to flow. Simple circuits have several parts. A battery or an electric outlet may be the circuit's source of power. Wires connect the different parts of the circuit. These wires are usually made of copper or another type of metal, and are wrapped in plastic. The last part needed to complete a simple circuit is a load. A load is the device that needs an electric current to work.

People use the energy flowing through electrical currents every day. Look around your classroom. What do you see that uses electricity?

MAKE YOUR CLAIM

Does the total number of cubes change when you rearrange the pieces?

Make your claim. Use your investigation.

CLAIM
The total number of pieces does not change when an object is rearranged.

Cite evidence from the lesson.

EVIDENCE
I found that Sample answer: the object had 12 original pieces. After I changed my object it had 12 pieces.

Discuss your reasoning as a class. Tell about your discussion.

REASONING
The evidence supports the claim because Sample answer: my second object kept the same number of cubes and took up the same amount of space.

You will revisit your claim to add more evidence later in this lesson.

Close Reading

The Close Reading activities in **Inspire Science** guide students to search for answers to text-dependent questions within informational text passages, encouraging them to focus on meaning.

Writing Prompts

With the CER Framework (Claim, Evidence, Reasoning) integrated into certain lessons, students will make claims and document their reasoning during the Explore phase of the lesson. Later, they add evidence and revise their claims as needed.



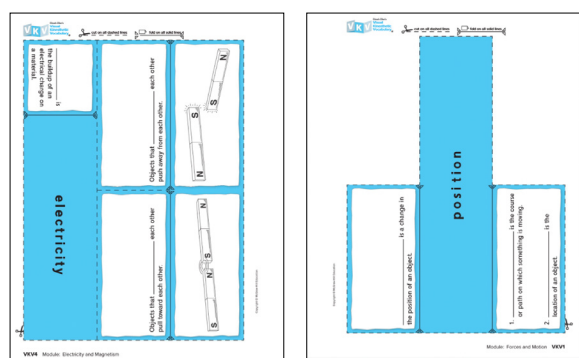
Science Read Alouds

For students in Grades K–1, Science Read Alouds anchor module content and drive discovery by using the power of narrative storytelling to pique students' interest in a science topic.



Investigator Articles

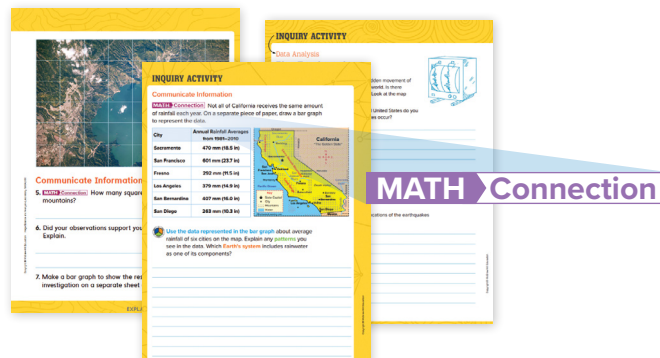
For students in Grades 2–5, Investigator Articles supply real-world science and engineering stories, available in Approaching Grade Level and On Grade Level.



Dinah Zike's Foldables and Kinesthetic Vocabulary

Engage students as they organize their notes with Dinah Zike's Study Guide and Notebook Foldables, which help organize important lesson information.

Introduce and review vocabulary terms using the Visual Kinesthetic Vocabulary designed to construct meaning and promote mastery.



Math Integration

Science and math are closely related in the real-world—a key reason for the Science and Engineering Practice of Using Mathematical and Computational Thinking, as well as Analyzing and Interpreting Data. In **Inspire Science**, students engage with math the way science and engineers do by collecting and analyzing data, creating graphs, and making connections between mathematics and real-world events to solve challenging problems.

Support Every Learner

Inspire Science incorporates the research-based Universal Design For Learning Principles to ensure that all students have access to a rigorous curriculum.

Robust differentiation support is found within the Teacher's Edition, as well as through leveled informational text resources such as the Leveled Readers and Investigator Articles. Support with practical strategies is found at the module and lesson level at multiple points. Leveled text aligns with the Lexile ranges appropriate for each grade level.

Intervention and Acceleration

Module Concept Fossils provide evidence of the organisms and their habitats that lived long ago. In a specific habitat, some organisms will survive easily, others will struggle, and some will not survive at all. As an environment changes, the types of plants and animals that live there will change too. Help students connect these key module concepts by providing multiple means of actions and expression.

AL Approaching Level

Display an idea web titled *Habitats*, with areas labeled *night*, *day*, *cold*, *hot*, *wet*, and *dry*. Have students name animals that they think live in each habitat described in the web. Point out to students that each type of environment is more or less suited to specific organisms.

OL On Level

Distribute photos of animals in their natural environments to students. Discuss ways that an environment can change (deforestation, flooding, drought). Ask, [How would a change in the environment affect the animal in your photo?](#) Have students write, speak, or draw a response.

BL Beyond Level

Have students choose a wild animal and research how its environment had been affected by human activity. Have students create a written, oral, or visual presentation of how the animal has responded to the changes in its environment.

Module-Level Differentiation Support

Advanced and Gifted Learners

In addition to the Approaching, On, and Beyond levels support included in the differentiated instruction strategies for each module and lesson, **Inspire Science** provides challenging activities directed at advanced and gifted learners.

Advanced Learners and Gifted Learners

Instruction should focus on adding depth and complexity in student understanding of the ways that materials can be put together to make other objects or changed by heating or cooling.

DOK 3 Strategic Thinking Have students revisit the investigations they conduct throughout the module to think about how they can investigate further questions. For example, what would happen if we added further heat to the ice and clay in the Heat and Materials Inquiry Activity? What observable changes can students predict?

DOK 4 Extended Have students research the melting and freezing points of several different materials, such as plastic, steel, clay, oil, and glass. Ask them to display their results in a table. Then have them choose one of the materials and tell what uses it would be good for based on its ability to withstand extreme temperatures. Have partners discuss their findings.



Cognates

Cognates are words in two different languages that share a similar meaning, spelling, and pronunciation. Review differences in spelling and pronunciation of these terms with your Spanish-speaking English learners.

assemble ensamblar	reversible reversible	temperature temperatura
thermometer termómetro	plastic plástico	block bloque

Supporting All Language Learners

Incorporating proven instructional practices for teaching multilingual learners (MLLs), **Inspire Science** embeds scaffolded activities into every module and lesson.

Equitable Access for Spanish Speakers

Ciencia que Inspira ensures Spanish speaking students can access a high-quality, intellectually rich, and engaging science and engineering curriculum through authentic Spanish translations available in both print and digital formats.





Assess and Adjust Along the Way

Inspire Science includes a variety of assessment options to use before, during, and after each lesson and module, supporting teachers with differentiation strategies as students progress through their learning journey to mastery of the Performance Expectations.

Comprehensive Assessment

Formative and summative assessment tools—embedded at many points throughout each module and lesson—facilitate student reflection on their thinking (metacognition) and help ensure that student skills align with Performance Expectations. The following table shows the types of assessment resources that Inspire Science offers both online and in print.

FEATURE	INSTRUCTIONAL PURPOSE
Page Keeley Science Probes	Page Keeley's Science Probes present the lesson phenomenon in an engaging way to promote student thinking and discussion, revealing commonly-held preconceptions students bring to their learning to guide differentiated instruction strategies.
Module Pretest	The Module Pretests , found at the beginning of each module in Grades 2–5, assess prerequisite knowledge of Disciplinary Core Ideas from prior grades to evaluate student readiness for the module.
Claim-Evidence-Reasoning	With the CER Framework (Claim, Evidence, Reasoning), found in certain lessons, students will make claims and document their reasoning during the Explore phase and add evidence and adjust their claims as needed later in the lesson.
Talk About It	Throughout each lesson, student-initiated or teacher-led Talk About It prompts encourage discussion to help students demonstrate their understanding of the phenomena, DCIs, or CCCs.
Three-Dimensional Thinking Questions	At the end of the lessons, students will demonstrate their understanding of at least two of the three dimensions of Science Course of Study to develop three-dimensional thinking skills.
Lesson Check	Found in every lesson online, Lesson Checks determine how well students are progressing toward a mastery of the Performance Expectations.
Kahoot! Review Game	These game-show-style activities give students a fun way to review the key information from each module.
Module Test	Found at the end of each module online, Module Tests evaluate student proficiency against the Performance Expectations with multiple choice, extended response, constructed response, and performance-task items.
STEM Module Project Performance-Based Rubrics	With each STEM Module Project, found at the end of each module, students will complete Performance-Based Rubrics and answer summative questions to demonstrate how they've applied their knowledge and understanding of the Performance Expectations to their project.



Kahoot!



Ongoing Professional Learning

Access a wide range of resources on key instructional and pedagogical topics, including videos from program authors and consultants.



Find everything you need, all in one place.

- **Science Preconceptions Videos** review common preconceptions and strategies to overcome them.
- **Instructional Coaching Videos** discuss best practice strategies and the “why” behind the success.
- **Teacher Activity Videos** show planning tips and expected results to help with hands-on activity time.
- **Science Pedagogy Micro-Courses** provide facilitation guides for both self-guided or small group courses.

Strategies for Formative Assessment Video Library

This video library contains specific strategies you can use with probes to maximize student engagement and learning and encourage students to share their thinking.

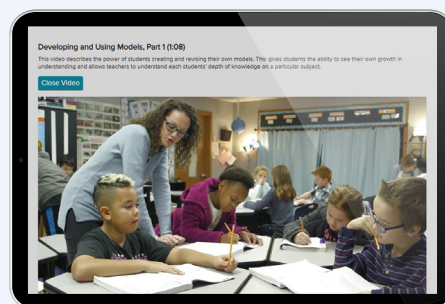
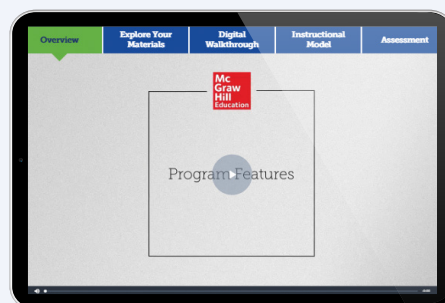
Teacher Quick Start Course

Plan, Teach, and Assess **eLearning Modules** provide deep-dives on the program’s instructional model and resources.

Science Background Videos

These videos will help new teachers or teachers unfamiliar with a science topic feel more confident as they plan for the module.

Quick Start Videos explain program basics to help get you started.





Seamless Integration Services

We are proud to work with schools to implement our programs into a range of classroom environments using different platforms. Both our Integration team and our Digital Technical Support team are ready to support you and your implementation.



Leverage Trusted Platforms

This video library contains specific strategies you can use with probes to maximize student engagement and learning and encourage students to share their thinking.

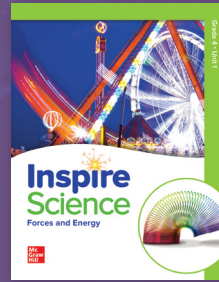
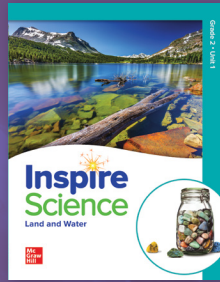
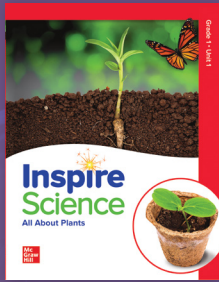
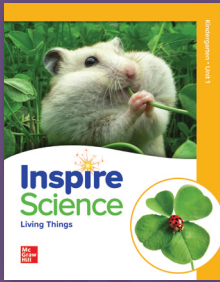


Google Classroom

Clever



HELP STUDENTS EXPLORE THEIR WORLD



Inspire Science



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