

Program Overview Grades K–5

Inspire Science

Explore Our Phenomenal World

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Inspiring the Next Generation of Innovators

While career opportunities in Science, Technology, Engineering, and Math (STEM) increase each year, qualified candidates for these careers continue to fall short. This is known as the STEM Gap. This gap represents a great opportunity for the students in your classrooms today to become the innovators of the future.

Inspire Science helps students build innovative thinking skills by empowering them to explore and learn from our world's amazing natural phenomena in exciting, hands-on ways.

- By fostering student's innate **curiosity**, you elevate their critical thinking.
- By facilitating hands-on **investigation**, you deepen their understanding.
- By encouraging creative problem-solving, you inspire their **innovation**.

A new generation of innovators is growing up right now. Are you ready to inspire?





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Meeting Oklahoma Academic **Standards for Science**

Oklahoma Academic Standards for Science (OAS) and Next Generation Science Standards (NGSS) are new philosophies for K-12 Science education focused on helping you prepare students for career and college readiness.

That's why the Inspire Science team has been studying science standards for years, while testing ideas with teachers like you to create a user-friendly experience for both teachers and students.

User-Friendly Instructional Model

phenomena-driven learning.



Professional Learning When You Need It

Fingers Unde Strategy Inspire Science includes an expansive library of relevant, self-paced, professional learning courses to support implementation, instructional progression and Page Keeley, mastery-all available 24/7. M.Ed. Dr. Rhett Allain

Inspire Science

Inspire Science provides the proven and research-driven 5E instructional model enhanced to align with the demands of the OAS and NGSS for three-dimensional,

> For more information on the Inspire Science Instructional Model see the Program Guide.

Encounter the Phenomenon

Inspire Science places student engagement at the forefront. Each module and lesson is designed to tap into students' natural curiosity about the world around them through the investigation of real-world phenomena. Student engagement is further fueled through the connections to real-world applications with the STEM Career Connections and STEM Module Projects.

Phenomena-Driven Learning

Inspire Science places natural phenomena at center stage within each module and lesson. By introducing an anchoring phenomenon in each module, supported by lesson-level investigative phenomena, students dig deep into key science and engineering concepts.

Designed for the Digital Generation

Inspire Science is infused with highly engaging interactive experiences designed for today's digitally-native students. Interactive simulations, 360 videos, 3D models, learning-based games, and immersive science content videos will keep students' attention and inspire them to explore and discover.



Learning-Based Games

Inspire Science



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Inquiry-Based Approach

Inquiry-driven learning helps students understand how to ask deeper questions and think critically as they answer science questions and design creative solutions to real-world problems. With Inspire Science, students learn how to become great investigators through a variety of inquiry activities that connect to the Science and **Engineering Practices.**

INQUIRY ACTIVITIES



Supporting Hands-On Learning

Oklahoma Academic Standards for Science (OAS) and Next Generation Science Standards (NGSS) require a marked increase in inquiry-based learning, resulting in more hands-on activities. This shift makes for a more exciting classroom experience, but it also comes with new logistical challenges that can be difficult to manage. With *Inspire Science*, we've provided a number of support structures to help make this shift more manageable and more fun for you and your students.

Inquiry Activity Planners

The Inspire Science Inquiry Activity Planners make preparing for hands-on activities easier than ever-listing out all the materials needed for the entire module and clearly noting which materials are included in the Collaboration Kits.

	e: Information Processin	ng and	Tran
Inqu	uiry Activity Planne	r	
In this mo design an	dule, students will investigate information proce d build a device that uses light and/or sound to	essing and tr communica	ansfer and te a messa
Lesson	Inquiry Activity		
* 0 60 0	DNLINE for teacher support videos on selected activities.		Consum
Materials	included in the Collaboration Kit are listed in blue.		
Lesson 1	Hands On Sense of Touch	(b) 30 min (c) small groups	material t blindfold
	Purpose: To explore how their sense of touch works when their sense of sight is impaired.		
		(1) 30 min	15 pill bu
	Hands On Pill Bugs	(C) 30 min	10 pin bu

Engaging Inquiry Activities with Options

Every lesson in Inspire Science offers multiple inquiry-based activities, along with techniques that scientists and engineers use in the real world. These inquiry activities include differentiation strategies (through the Inquiry Spectrum), and various pacing options ranging from simple investigations to complex lab explorations.



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The Inquiry Spectrum

The Inspire Science Inquiry Spectrum provides flexible options to adjust the inquiry level to align with the learning needs of each student.

Inquiry Spectrum

Structured Inquiry

In this Inquiry Activity, students are given a question to tigate and procedure to follo

Guided Inquiry

To make this a guided inquiry, present students with the same question to investigate and make a prediction on, but have students come up with erials and a procedure to investigate the question.

Open Inquiry

To make this an open inquiry, have students investigate one of their own questions based on the phenomenon. Allow students time to plan how they will investigate their question and carry out eir investigation

Collaboration Kits*

*Available for Additional Purchase

Developed specifically for group collaboration, the Inspire Science Collaboration Kits make hands-on activities a breeze-allowing you to focus on the activity rather than planning and hunting for supplies.



Ensure Equity

Inspire Science fosters deep learning for every student by providing built-in supports for differentiated instruction, English Language (EL) strategies, and language-building resources at the module level and at multiple points throughout each lesson. Each student is given an opportunity to construct explanations of phenomena and use evidence-based logic to make connections, building critical skills at every step.

Differentiated Instruction

Inspire Science incorporates the research-based Universal Design Learning Principles to ensure that all students have access to 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 of the CCSS.



Assessment Strategies

Ensuring students are well prepared for the state-wide tests can seem daunting, but with Inspire Science's next generation assessment tools, in partnership with Measured Progress (STEM Gauge) and the Inspire Science Three-Dimensional Guide, you'll know what to expect and how to prepare your students for success with mastery of the Performance Expectations.

Online Assessment Center GO ONLINE



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English Language Support

Rooted in learning sciences research, Inspire Science applies the best instructional practices for teaching EL students. Each module and lesson has scaffolded activities that offer students of any level of English language proficiency the opportunity to engage in academically challenging science and engineering content while supporting language acquisition.

English Language Support

mammal	insect	reptile
mamífero	insecto	reptil
amphibian	protection	signal
anfibio	protección	señal
armadillo	zebra	lion
armadillo	cebra	león

CER Framework

The Claim, Evidence, Reasoning (CER) framework in Inspire Science ensures every student is engaged in rigorous scientific inquiry and argument from evidence.

What makes an object move faster and father?	
Make a claim about what causes an object to move faster and farther.	-
CLAIM I think an object's motion will added.	when height is
	Cite evidence from the activity
EVIDENCE The evidence I found in the included	
Give reasoning for your claim.	
REASONING My reasoning for my claim is	

CLAIM **EVIDENCE** REASONING

Designed to Fit Any Classroom

At McGraw-Hill, we understand that different classrooms have different needs for tactile and digital resources. We know those needs can change day to day. Inspire Science is designed to fit all of your resource needs through a wide array of print, digital, and hands-on materials so you have access to all of the great learning resources in any form you'd like, whenever you need them.

Print Resources

Every Inspire Science print book includes a digital companion to compliment the digital interactive resources such as simulations, 3D models, videos, and learning-based games.

TEACHER'S AND STUDENT EDITION (Grades K-5, Four Units Per Grade)





In addition to the digital versions of each print book, Inspire Science provides a digital experience, in both English and Spanish, designed with advantages for both you and your students, including innovative interactives, videos, simulations, learning-based games, personal tutors, and more.

Collaboration Kits*

*Available for Additional Purchase

Inspire Science Collaboration Kits make planning for hands-on time easier, so you can focus more of your time on the activities than the planning. Each Collaboration Kit contains the materials needed for the hands-on inquiry activities, organized by unit and module.

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See the Collaboration Kit Guide to learn more about what each unit kit includes.

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A Future Full of Innovation. Dream Big.

With the emphasis Inspire Science places on curiosity, investigative skills, and innovative thinking, just imagine what the students in your classroom today might dream up to improve our lives someday-in our country and beyond.

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Innovative Solutions for Global Warming

New solutions to reduce carbon emissions and clean up the carbon from our atmosphere?

Practical fuel cell transportation to power cars from water, emitting only steam?

An influential role in global carbon emissions management?







Inspire Science

Innovations in Health Care and Disease Management

Advances in cellular immunotherapy treatments to leverage our own immune systems to stop cancer and diseases in their tracks?

Advances in using robotics for healing and repairing the human body?

New ideas for identifying and stopping diseases before they happen?







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