Mc Graw Hill

Program Overview

Grades 6–8

Inspire Science

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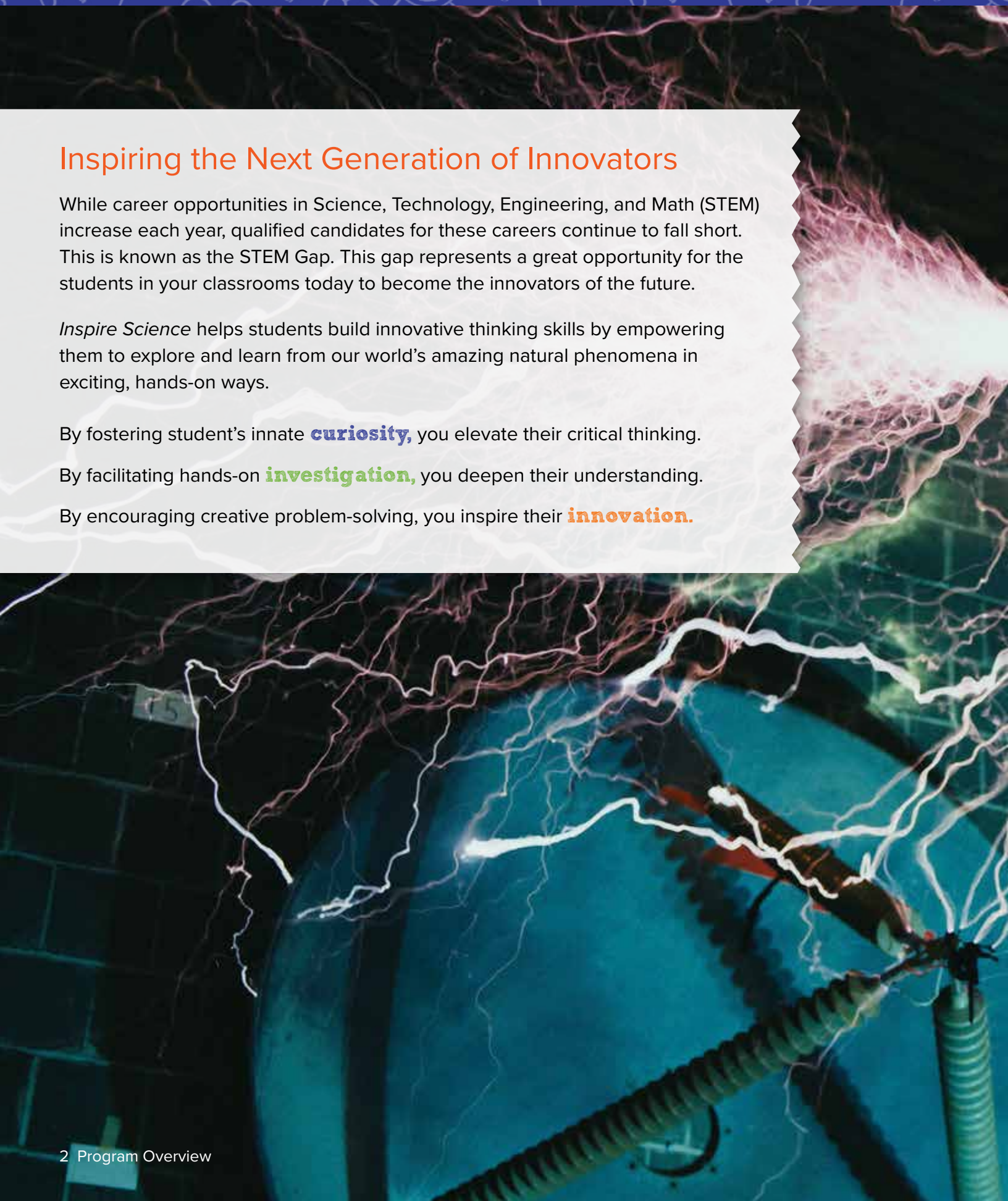


Inspiring the Next Generation of Innovators

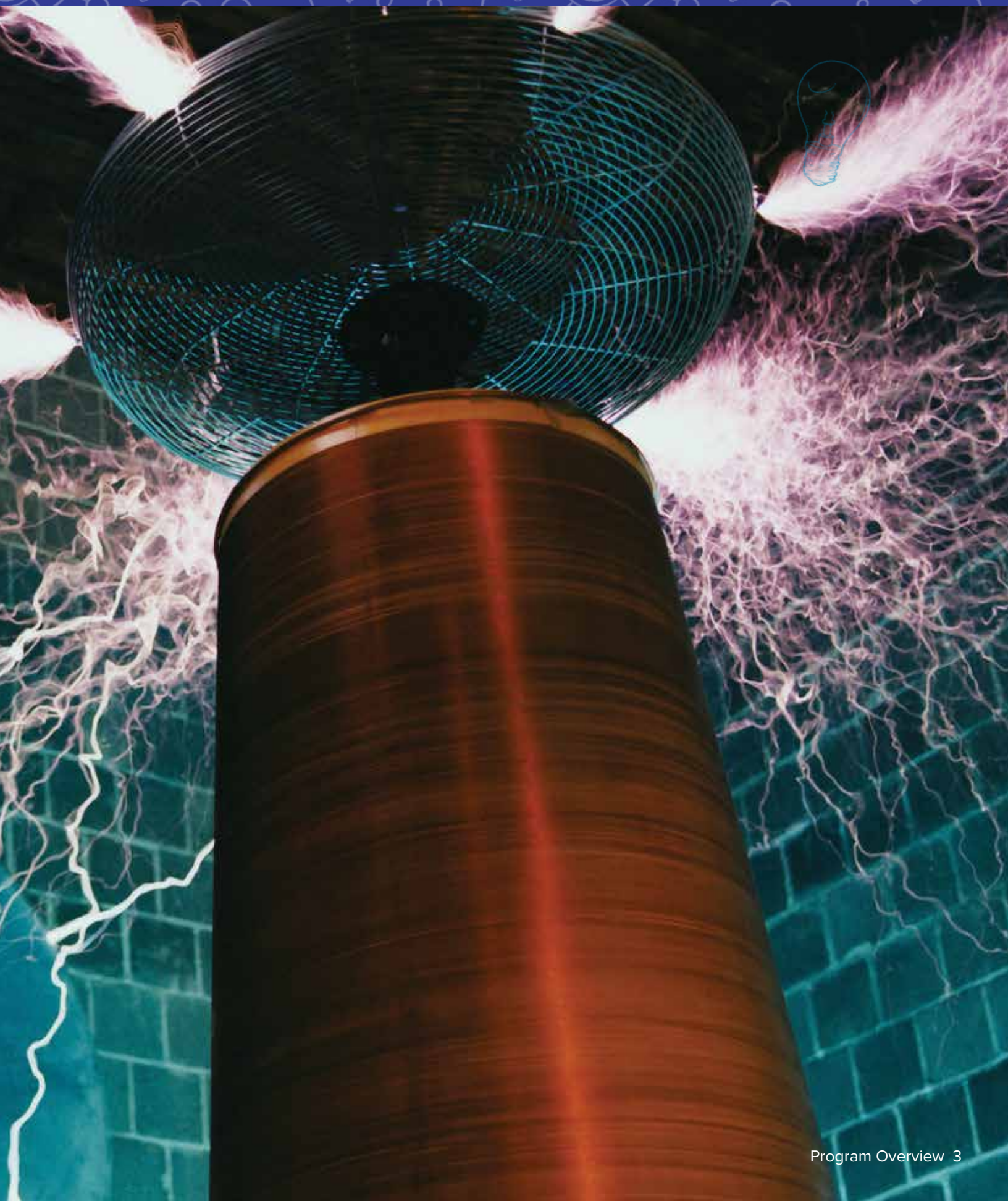
While career opportunities in Science, Technology, Engineering, and Math (STEM) increase each year, qualified candidates for these careers continue to fall short. This is known as the STEM Gap. This gap represents a great opportunity for the students in your classrooms today to become the innovators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

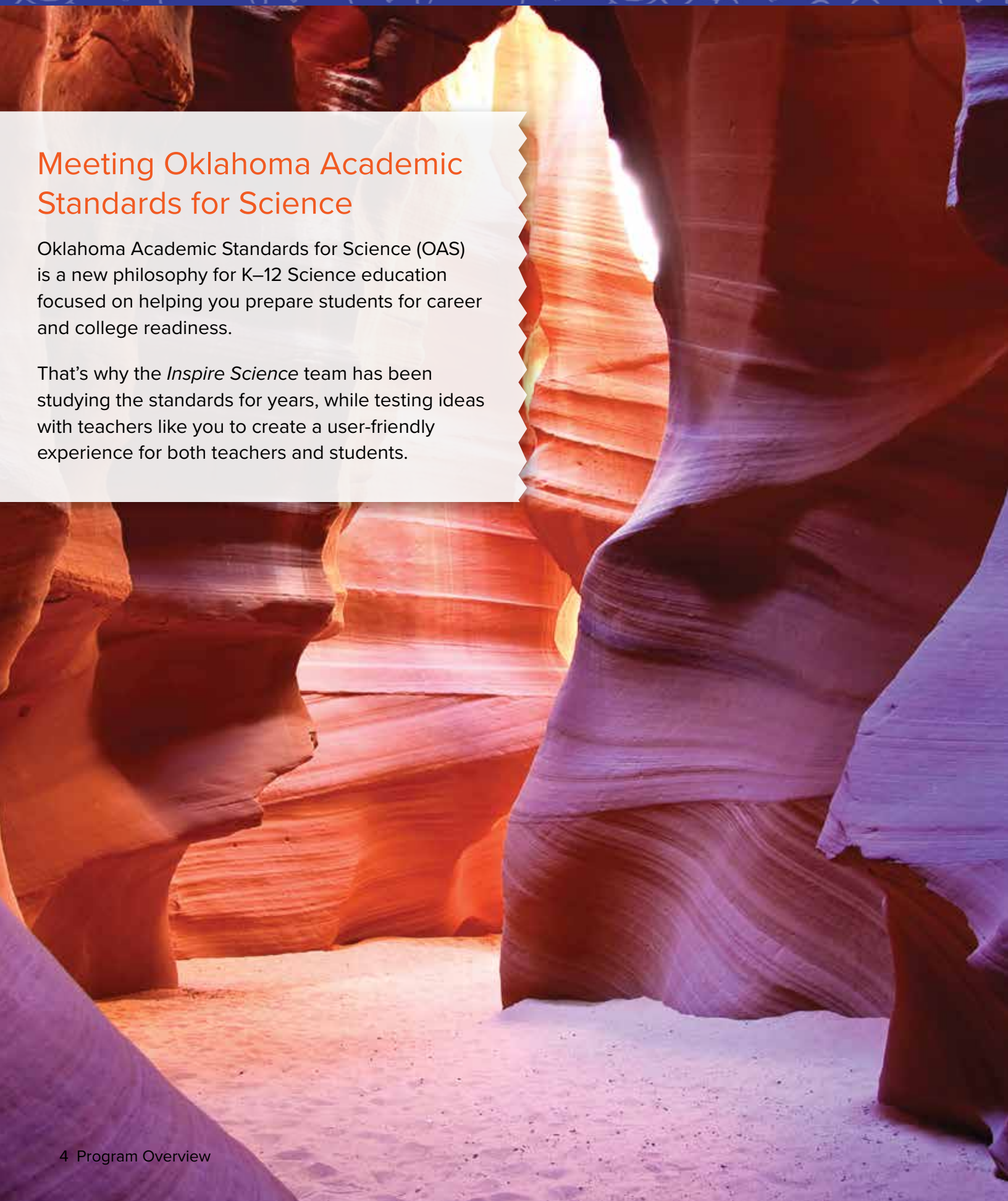
Inspire Science helps students build innovative thinking skills by empowering them to explore and learn from our world's amazing natural phenomena in exciting, hands-on ways.

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.**





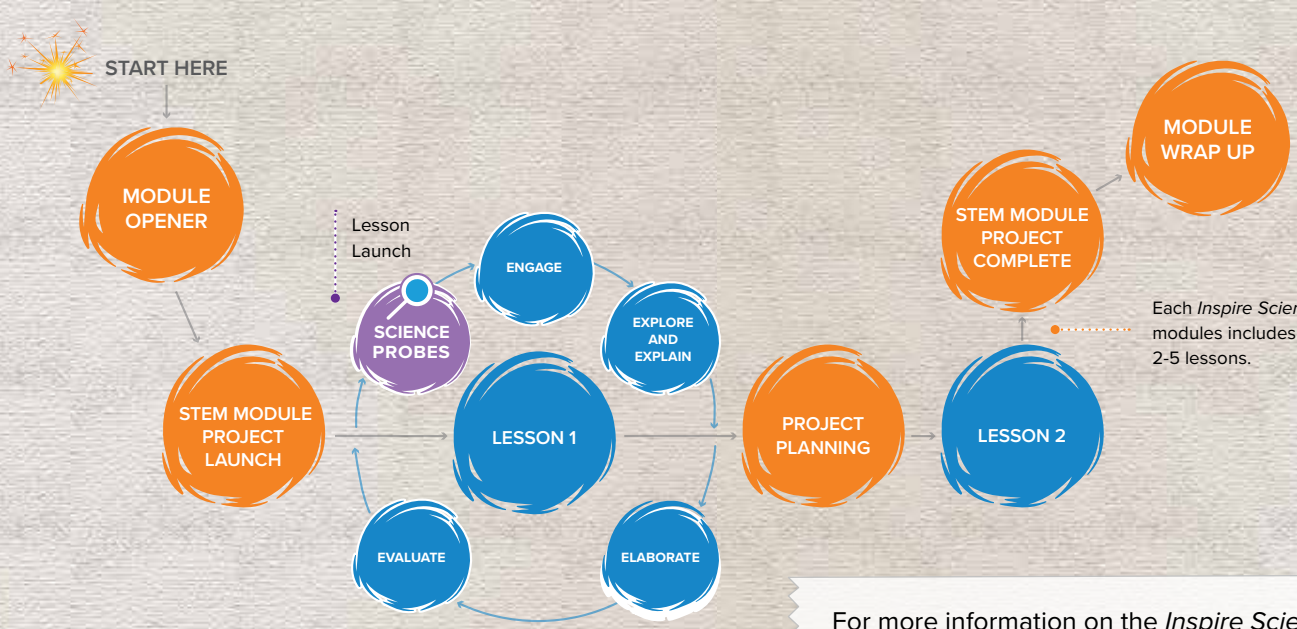
Meeting Oklahoma Academic Standards for Science

Oklahoma Academic Standards for Science (OAS) is a new philosophy 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 the 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

Inspire Science provides the proven and research-driven 5E instructional model enhanced to align with the demands for three-dimensional, phenomena-driven learning.



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

Professional Learning When You Need It

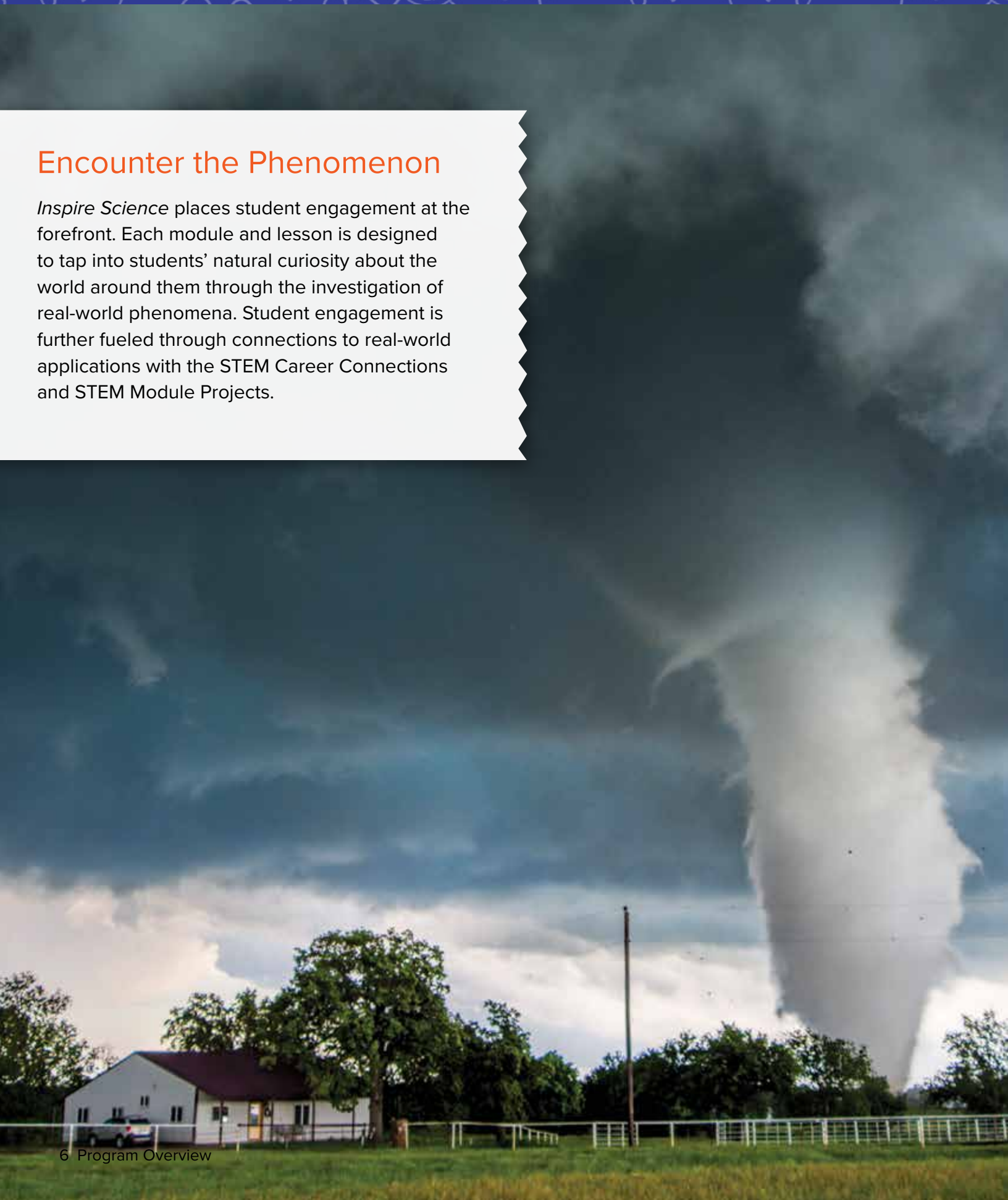
Inspire Science includes an expansive library of relevant, self-paced, professional learning courses to support implementation, instructional progression and mastery — all available 24/7.

Dr. Rhett Allain

Page Keeley, M.Ed.

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 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.

ENCOUNTER
THE PHENOMENON

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.

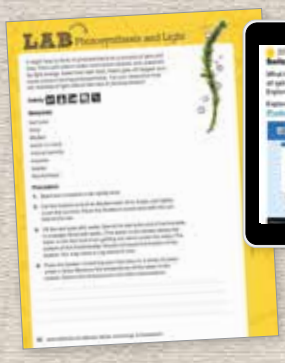
Phenomenon Videos

Virtual Labs

Inquiry-Based Approach

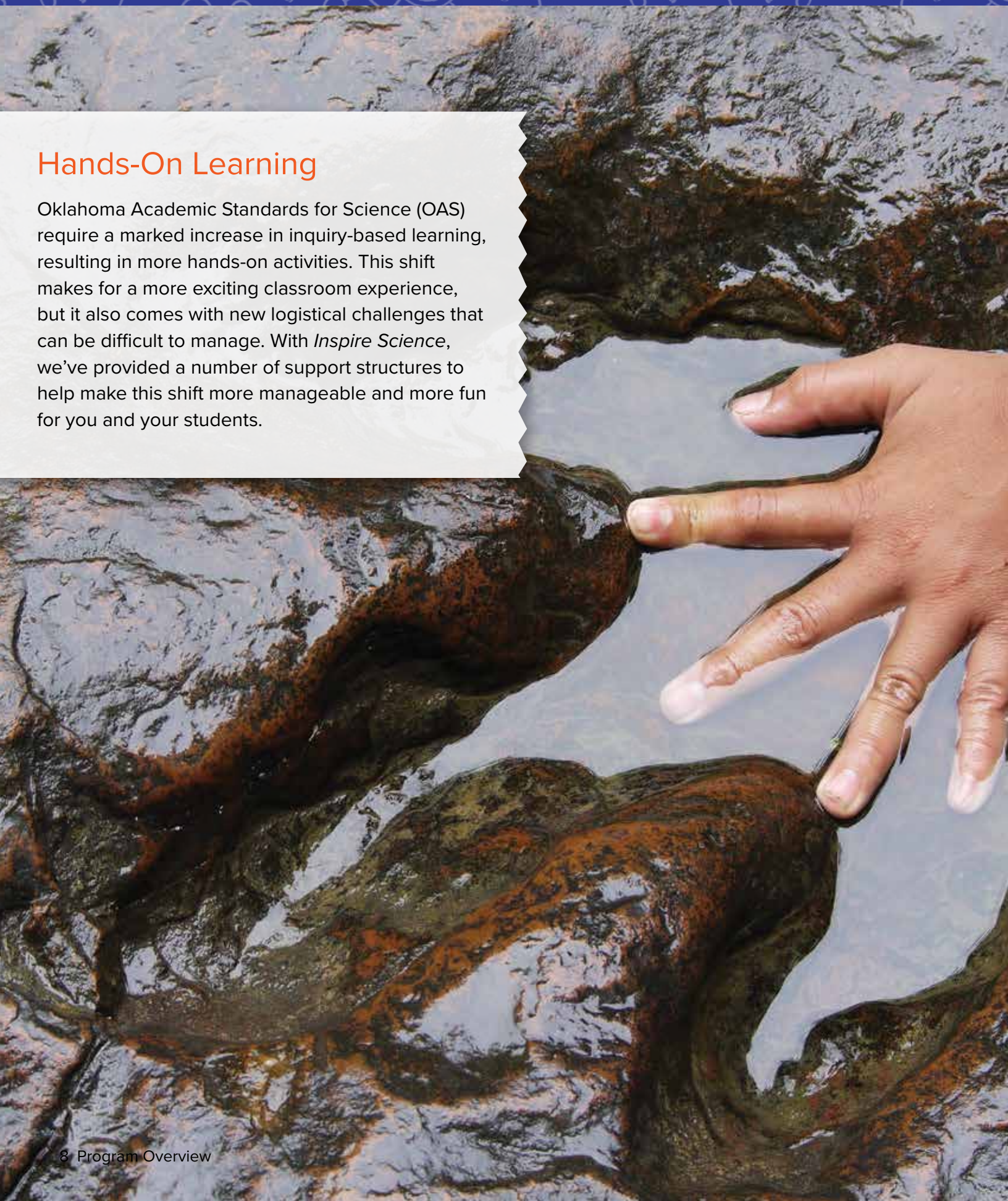
Inquiry-driven learning helps students understand how to ask deeper questions and think critically as they answer science questions and design creative solutions to real-world problems. With *Inspire Science*, students learn how to become great investigators through a variety of inquiry activities that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

INQUIRY ACTIVITIES



Research

Simulations

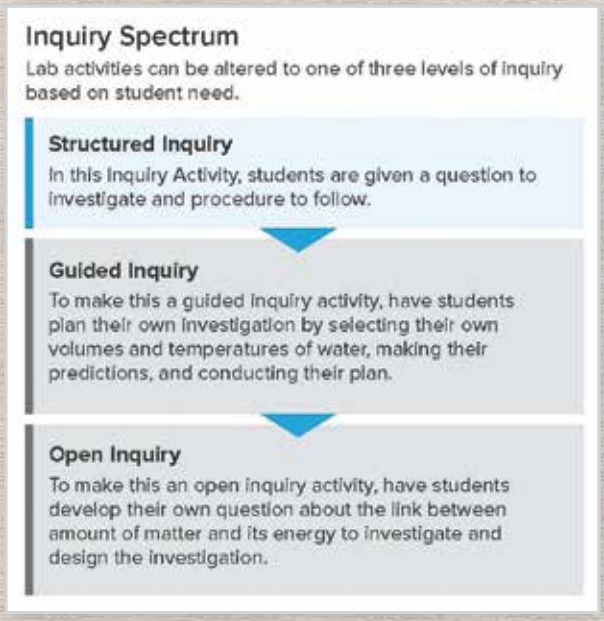


Hands-On Learning

Oklahoma Academic Standards for Science (OAS) 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.

The Inquiry Spectrum

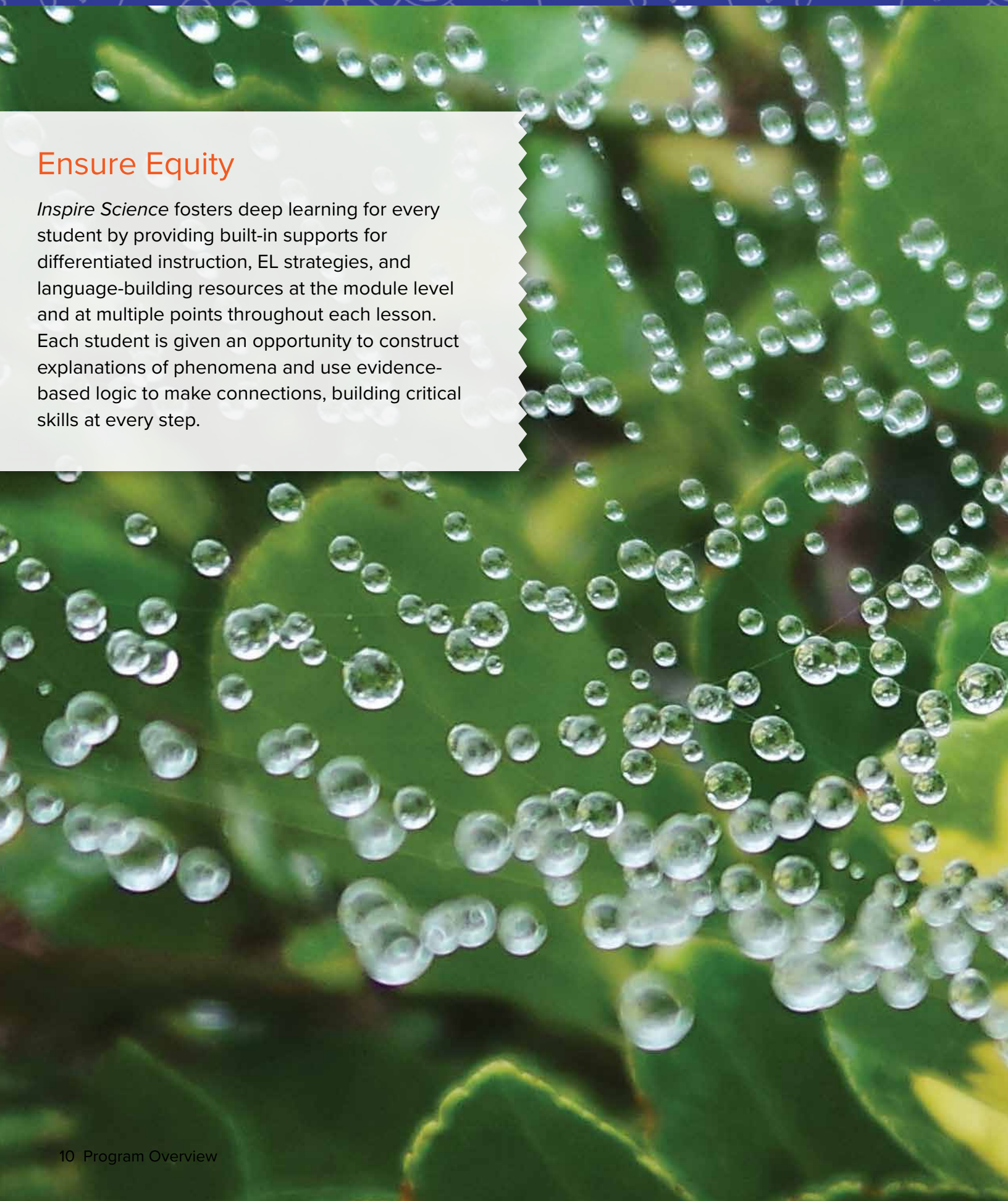
Depending upon the available time and the topic being investigated, structured inquiry might be perfect, or your class may be ready for open inquiry. The *Inspire Science* Inquiry Spectrum provides flexible options to adjust the inquiry level to align with the learning needs of each student.



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.

Collaboration Kits are available for Additional Purchase.

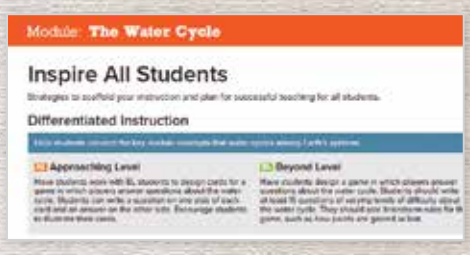


Ensure Equity

Inspire Science fosters deep learning for every student by providing built-in supports for differentiated instruction, 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.

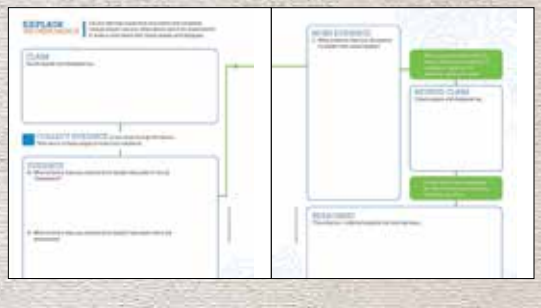


LEARNSMART®

LearnSmart® with SmartBook® transforms the way students read. A proven, adaptive learning program, LearnSmart individualizes learning to help students study more efficiently and retain more knowledge.

CER Framework

The Claim, Evidence, Reasoning (CER) framework in *Inspire Science* — which becomes increasingly sophisticated from K–12 — ensures every student is engaged in rigorous scientific inquiry and argument from evidence.



English Language Support

Rooted in learning sciences research, *Inspire Science* applies the best instructional practices for teaching EL students in alignment with the ELD standards. 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.

Assessment Strategies

Ensuring students are well prepared for the standardized can seem daunting, but with the *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

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 adaptive learning.

TEACHER'S AND STUDENT EDITION

Available in Spanish

Available in Spanish

Digital Resources

In addition to the digital versions of each print book, *Inspire Science* provides a digital experience designed with advantages for both you and your students, including innovative interactives, videos, simulations, virtual labs, personal tutors, and more.

SYNC BLASTS™

**Available for Additional Purchase.*

SyncBlasts™ provides reading and writing assignments that present science and current event topics relevant to students' lives and their world. Providing a variety of rich multimedia—including Preview Videos, links to Case Studies, Explainer Videos, and The Point News Show—*SyncBlasts* are a smart way to engage students.

See the Digital Experience section of the Program Guide to learn more about these engaging interactives.

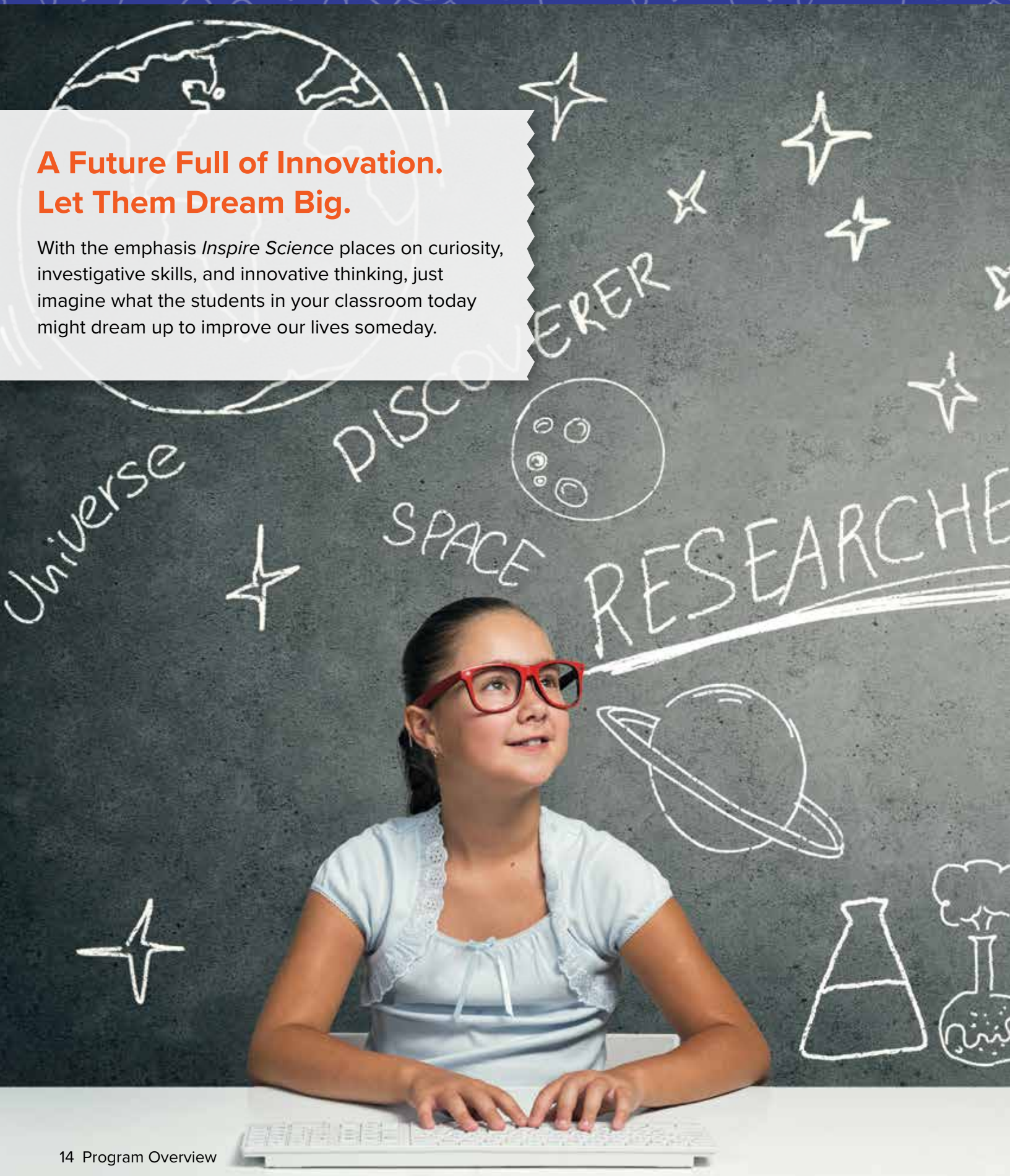
Collaboration Kits

**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.

A Future Full of Innovation. Let Them 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.



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?

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?

Innovations for Natural Resources

Practical ways to harness energy from the ocean waves?

Creative solutions to food creation and distribution to address world hunger?

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