







Inspire Science empowers students to explore and learn from our world's amazing natural phenomena in exciting, hands-on ways.

Inspire Science brings science off of the page and beyond the four walls of the classroom - into the exciting world in which we live with a wealth of online and offline resources. It goes much further as it dives deep into the incredible natural phenomena all around us to spark students' imagination and inspire success.

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 History of Innovation

THOMAS EDISON

Invention: Electrical Light **Date of Invention: 1879**

America's Greatest Inventor; Thomas Edison:

On February 11, 1847, an inventor and businessman was born in Milan, Ohio who would influence the world. Thomas Edison has been described as America's greatest inventor, holding 1093 US patents and hundreds more across the world. His most famous patent was for the incandescent light bulb.

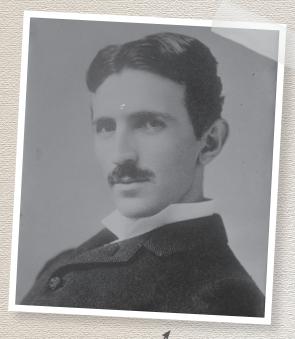
Edison began his work on the incandescent light bulb in 1878. He wanted to invent a light bulb that would replace gas lights and last for extended periods of time. After much trial and error and numerous attempts with different types of materials he finally succeeded in lighting the first incandescent light bulb on October 22, 1879, which stayed lit for roughly 14 hours. The success of the light bulb lead to many patents which he earned the label as America's Greatest Inventor.

Edison's success with the light bulb led to many more inventions and he launched a number of different businesses in the United States and worldwide. Throughout history, Thomas Edison's innovations have revolutionized life as we know it and influenced many inventors, including Nikola Tesla.

"I have not failed. I've just found 10,000 ways that won't work."

-Thomas Edison





NIKOLA TESLA

Invention: The Tesla Coil **Date of Invention: 1905**

Nikola Tesla

Nikola Tesla:

Nikola Tesla was born on July 10, 1856 in Smiljan, Croatia. He was an inventor, electrical and mechanical engineer, and physicist. He is best known for his ground-breaking contributions to the design of the alternating-current (AC) electrical system.

From a young age, Tesla showed an interest in science. After working for Thomas Edison for a year, Tesla struck out on his own and received more than 30 patents for his inventions. Tesla began working with George Westinghouse after Tesla gave a speech about alternating-current electrical systems. In 1891 Tesla invented the Tesla coil that is an induction coil used in radio communications. Throughout his life, Nikola Tesla obtained 278 patents.

Today we use Tesla's inventions in many ways, most notably every time we 'flip a switch' to turn on a light!

"The day science begins to study non-physical phenomena, it will make more progress in one decade than in all the previous centuries of its existence."

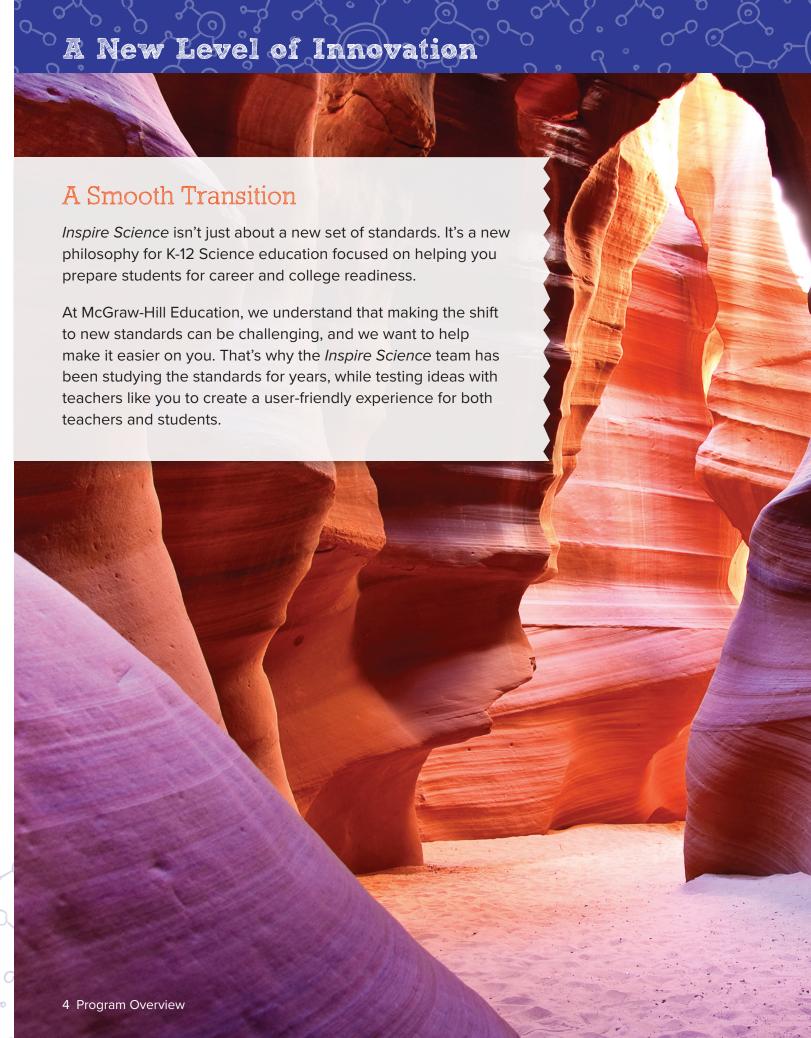
- Nikola Tesla

Let's Embrace Change, Together.

Change is on the horizon — as schools transition to new standards, a number of questions will no doubt be at the forefront of every science educator's mind...

- · How can I easily transition?
- · How do I make sure my students are engaged with this new approach?
- · How will I manage the increase in inquiry and hands-on activities with everything else I have to do?
- · How can I ensure all my students have the same chance for success?
- How can I meet all my classroom needs?





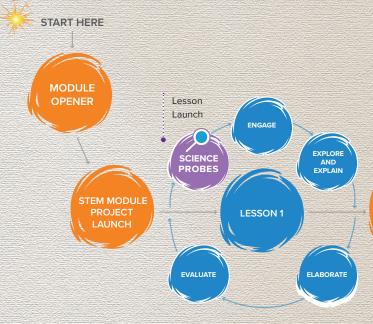


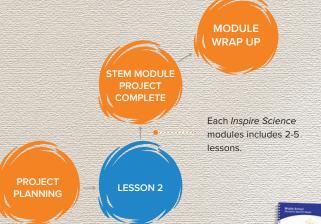
User-Friendly Instructional Model

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

Built with Teachers, Since the Beginning

Our close collaboration with educators just like you has resulted in a tried-and-true approach to that you'll love.





For more information on the Inspire Science Instructional

Model see the Program Guide

Support for New Standards

The transition to new standards requires a few shifts in science instruction and learning, and Inspire Science supports you through each one.

- · Progressive, Three-Dimensional Learning
- Depth Over Breadth
- · Phenomena-Driven, Inquiry-Based, Hands-On Learning
- · Performance-Based Testing
- Integrated Engineering

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.

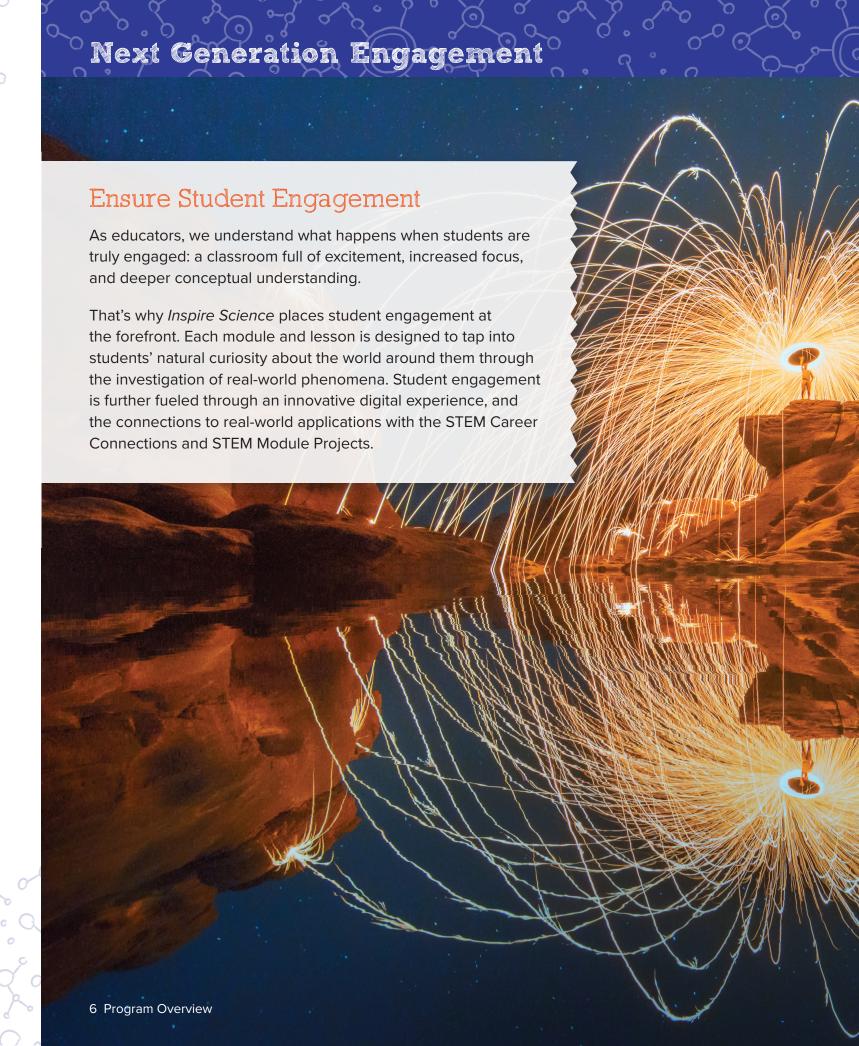


Page Keeley, M.Ed.

Inspire

How does Inspire Science Ensure a Smooth Transition to New Standards?

Let's look at a few inspiring ways Inspire Science will help you make the transition.







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

Student-Led, Collaborative Learning

The more involved, the more engaged. With *Inspire Science*, students take a leadership role in their learning experience and develop teamwork and ideation skills through deep collaboration with their classmates at many points during each module and lesson.



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



How will Inspire Science Keep My Students Engaged?

Take a closer look at some of the features in *Inspire Science* that support deeper investigation, better engagement, and greater understanding.

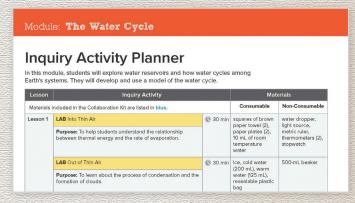






Inquiry Activity Planners

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.



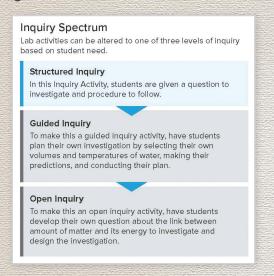
Engaging Inquiry Activities with Options

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.



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.



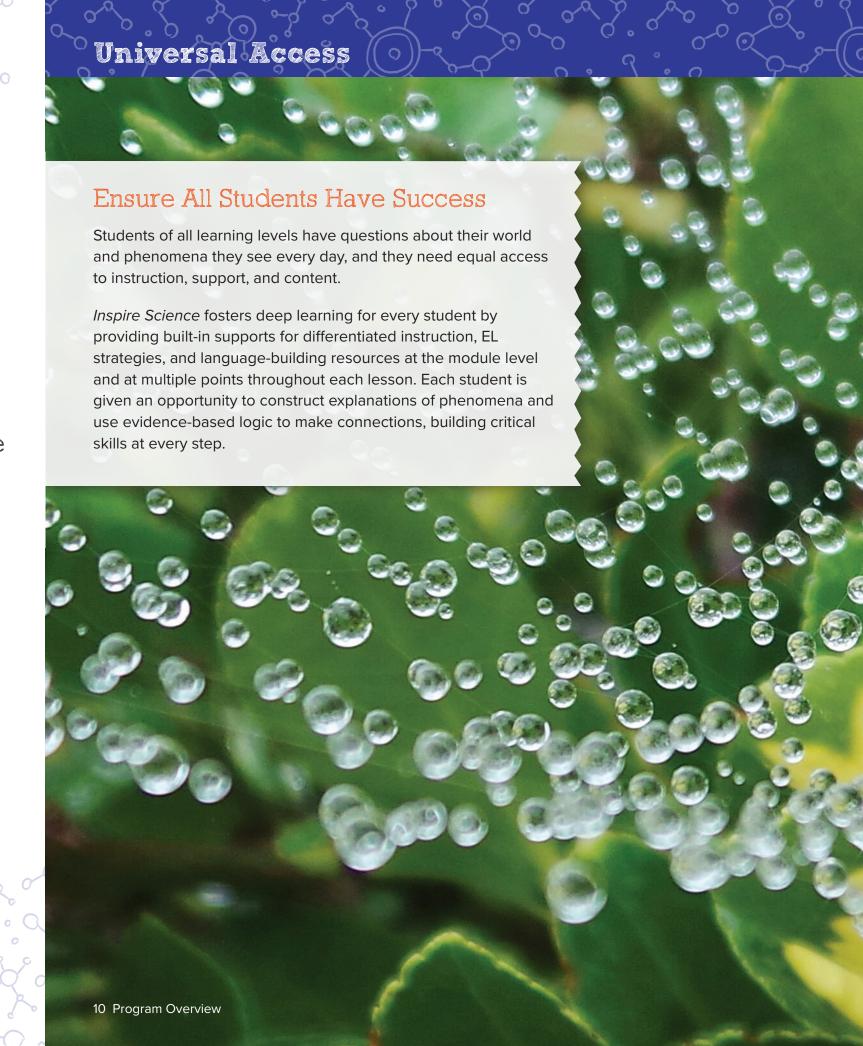
Collaboration Kits

Nothing is more engaging than rolling up your sleeves and digging into hands-on activities, but we understand managing the materials to support hands-on time can be a challenge. Developed specifically for group collaboration, the *Inspire Science* Collaboration Kits make hands-on activities a breeze — freeing you to focus on the activity rather than planning and hunting for supplies.



How does Inspire Science Make the Increase in Inquiry-Based Hands-On Activities Easier for Educators?

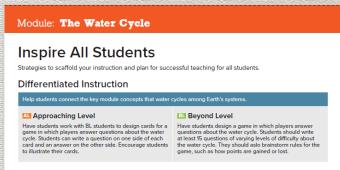
Let's look at some of the ways Inspire Science will help you look forward to more hands-on learning.





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.

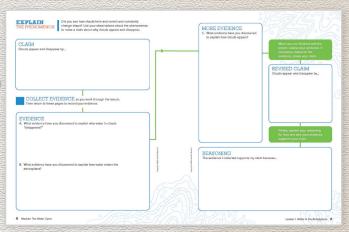


LEARNSMART®

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..

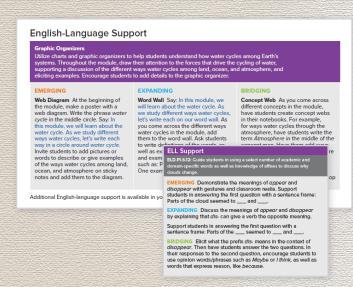
CER Framework

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.



Next Generation Assessments

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), you'll know what to expect and how to prepare your students for success with mastery of the Performance Expectations.

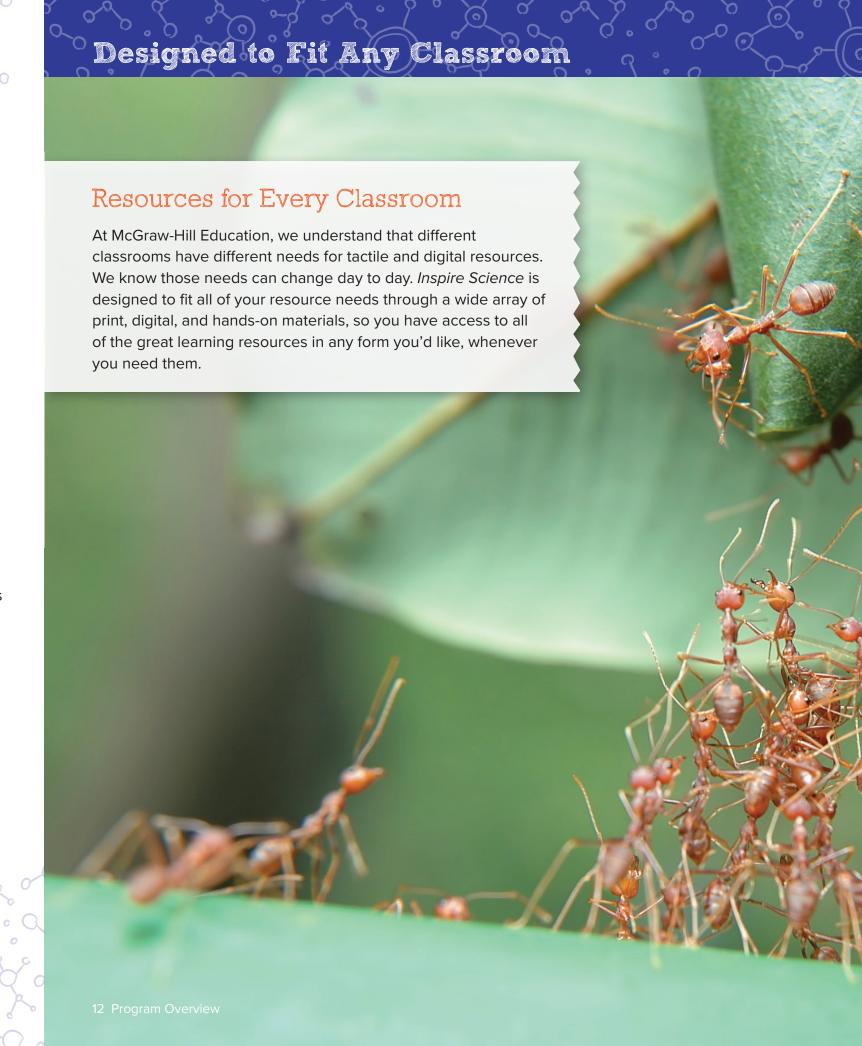
Online Assessment Center

GO ONLINE



How does Inspire Science Inspire All Students?

Let's look at some of the practical ways this program inspires all students with equal access to rigorous science content.







Print Resources

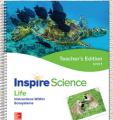
Every *Inspire Science* print book includes a digital companion to compliment the digital interactive resources such as simulations, 3D models, videos, and adaptive learning.

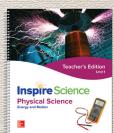
TEACHER'S AND STUDENT EDITION

(Earth and Space, Life Science, Physical Science, Four Units Per Grade)









BILINGUAL POSTERS

The bilingual Module Phenomenon Posters are a great way to get students thinking about the phenomenon in focus in each module. There are also posters for the Science and Engineering Practices and the Engineering Design Process as friendly reminders for these key concepts. These bilingual posters include English on one side, and Spanish on the other.



Collaboration Kits

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.



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

Digital Resources

Inspire Science

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.

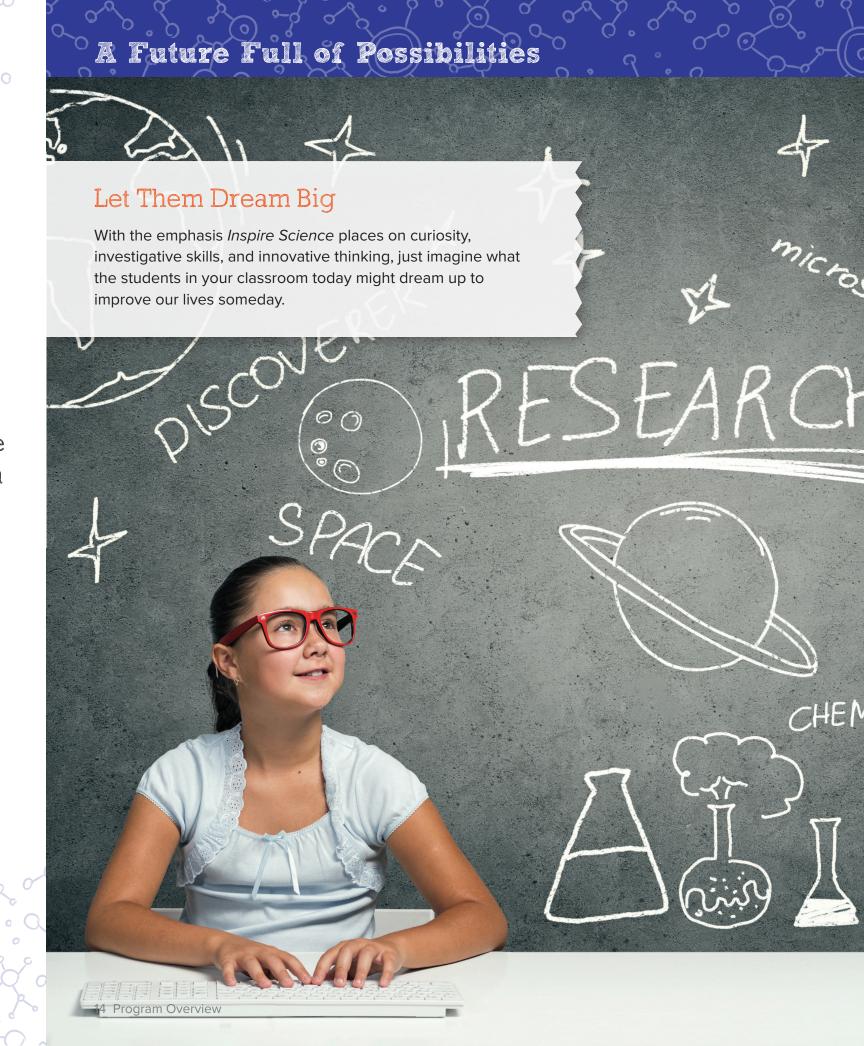


See the Digital Experience section of the Program Guide to learn more about these engaging interactives.



How does Inspire Science Meet All of My Classroom Needs for Print, Digital, Hands-On, and Spanish Resources?

Let's look at how with this program, you'll have everything you need for success.







A Future Full of Innovation

With the creative thinking and problem-solving skills your students will build with *Inspire*Science, they will have so many opportunities to impact the world. What problems will you inspire them to solve in the future?

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?

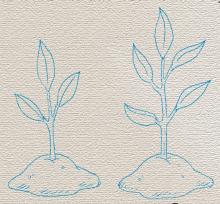




Innovations for Natural Resources

Practical ways to harness energy from the ocean waves?

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



How Might the Future Innovators Impact Our World Someday?

We know that students in our classrooms today have the potential to solve the problems of tomorrow. *Inspire Science* is designed to help you build the skills students need to carry on the legacy of inspired thinking.

Let's look at some of the possibilities for the future innovators.







