

# **Program Overview** Grades K–5

# South Carolina Inspire Science 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.

*South Carolina 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?

### Meeting South Carolina College- and Career-Ready Science Standards

South Carolina College- and Career-Ready Science Standards 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 *South Carolina Inspire Science* team has studied the new science standards, while testing ideas with teachers like you to create a user-friendly experience for both teachers and students.

#### **User-Friendly Instructional Model**

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



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## **Encounter the Phenomenon**

*South Carolina 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**

South Carolina 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**

South Carolina 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.

#### **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 *South Carolina Inspire Science*, students learn how to become great investigators through a variety of inquiry activities that connect to the Science and Engineering Practices.



Learning-Based Games





Hands On

## Supporting Hands-On Learning

South Carolina College- and Career-Ready Science Standards 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 South Carolina 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**

The South Carolina 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 investigate and procedure to follow.

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#### **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 materials 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 their investigation.

INQUIRY ACTIVITY

#### **Engaging Inquiry Activities with Options**

Every lesson in South Carolina 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.

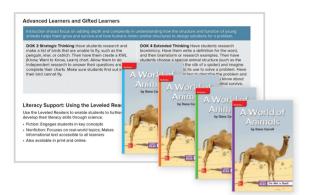


## **Ensure Equity**

*South Carolina 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**

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 allow students access to the same content for a classroom of students' with varied reading abilities.



#### **Assessment Strategies**

Ensuring students are well prepared for the state-wide tests can seem daunting, but with *South Carolina Inspire Science's* next generation assessment tools, in partnership with Measured Progress (STEM Gauge) and the *South Carolina 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



## **English Language Support**

Rooted in learning sciences research, *South Carolina 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.

Home Language Support Build on and learning in English. Teach students how between school science and home to c				
EMERGING	EXPANDING		BRIDGING	
Cognet Strategie Demonstrate the meaning of cognets by withing the meaning of cognets by withing that be to bell you what the word means using works, braves or genzures. Say and point to the word the mean using works, braves or performed the say the word of them have students any the word of them have students any the word of them have students any the word of on the board. Called students to notice the difference in spelling mo- tifierence in spelling mo- there are many counders in similarity module. Ask students to keep a list of them from the instruction sees similar to the former linearies.	Cognate Strategies meaning of cognate words animals and u board. Ask students meaning of the worn students in finding t and similarities in so for example, both v same spelling excep in s and the other in word animals and say animales. Note not a lot of differer or pronuclation. In conducts in the the differents in the the differents in the med differents in the med differents in the med differents in the med different in the med din	s by writing the animales on the to tell you the ds. Then support the differences winds and letters, and shave the ords have the that one ends are Sau the Cognates are w a similar meanin differences in s	Cognate Strategies a.5x tell your threy know who is, i.e. a word that looks: sounds similar, and shan across some languages, students read the title of to find the cognate, anith them tell you the word in language (animal) and git defention of the under in vords in two different lan gr, spelling, and pronun- pelling and pronunciatis sh-speaking English Lev	It a cognate similar, is a meaning Have the module hal. Have their home very you a Englieb. Date function. Review on of these terms
		mammal mamífero	insect insecto	reptile reptil
		amphibian anfibio	protection protección	signal señal
		armadillo	zebra	lion

#### **CER Framework**

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



## 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. *South Carolina 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.

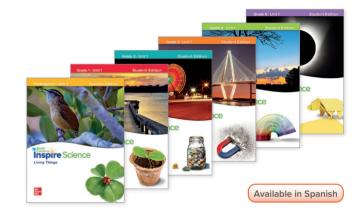
#### **Print Resources**

Every *South Carolina 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)





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SCIENCE READ ALOUDS (Grades K-1)



INVESTIGATOR ARTICLES (Grades 2-5)



LEVELED READERS (Grades K-5)



### **Digital Resources**

In addition to the digital versions of each print book, *South Carolina 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, learningbased games, personal tutors, and more.





# South Carolina Inspire Science

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