

User-Friendly • Connected • Inspiring

## **Get Ready to Be Inspired!**

Introducing the new modular K-5 science learning experience designed to prepare the next generation of innovators.

Program Overview



K-5







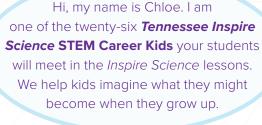


# Get Ready to Be Inspired!

Learning begins with curiosity. *Tennessee Inspire Science* is designed to help you spark students' interest and empower them to ask more questions, think more critically, and maximize their ability to creatively solve problems. *Tennessee Inspire Science*'s instructional model will prove that science education can be comprehensive and offer fun learning experiences that are sure to pique the interest of the bright minds in your classroom. Let us, help you cultivate curiosity and inspire the next generation of innovators, visionaries, and inventors.



Embrace science through a simple, user-friendly teaching experience.





Get more out of science time through built-in literacy and math connections.



Prepare students for a future full of STEM opportunities.





# A Flexible, Digital, Learning Experience with Print Where It Matters Most

Interactive
Whiteboard
and Mobile
Friendly







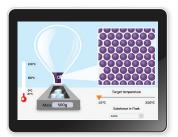












INTERACTIVES



SCIENCE SONGS



GAMES



eASSESSMENT



VIDEOS



PROFESSIONAL DEVELOPMENT



DINAH ZIKE, M.ED.
VIDEO LIBRARY



TENNESSEE INSPIRE
SCIENCE INVESTIGATOR







# **Components Overview**





#### **DIGITAL AND PHYSICAL**

#### **TEACHER'S EDITION**

(Grades K-5)



# **SCIENCE PAIRED READ ALOUDS**

(Grades K–2) Available in Spanish



#### **BE A SCIENTIST NOTEBOOK**

(Grades K-5)



#### **SCIENCE HANDBOOK**

(Grades 3-5)



#### **LEVELED READERS**

(Grades K–5) Available in Spanish



Digital versions of the student books include audio, dynamic search tools, text highlighting, and more.



#### **PHYSICAL**

#### LAB KITS

Tennessee Inspire Science lab kits contain hands-on activity materials clearly labeled and correlated to each module.



**GRACE** 

Computer Programmer

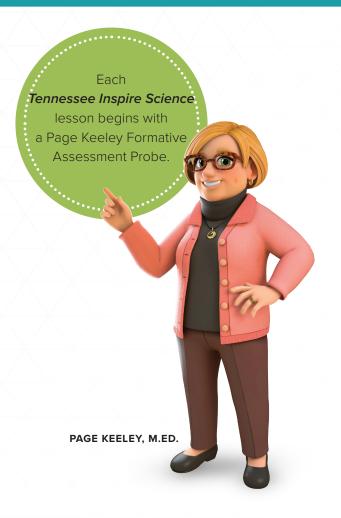




## **User-Friendly Lesson Structure**

Tennessee Inspire Science lessons are designed with the familiar and proven 5E instructional model. Each lesson also comes with an easy-to-follow process so you know exactly what comes next.





**Learning Progression** 

# Key Steps to Lesson Success



# **☑** User-Friendly



#### **Approximate Pacing**

(based on 45-minute teaching blocks)

Module = 1 month of instruction

Lesson = 8-10 days of instruction

Fast Track = 4-6 days of instruction



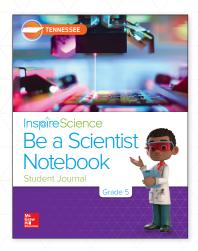
Follow the Fast Track when short on time. We'll show you the activities key to understanding the lesson content.

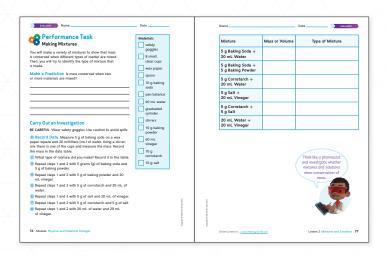


# User-Friendly Inquiries and Investigations

Tennessee Inspire Science offers multiple inquiry activities and investigations at the module and lesson levels. Hands-on activities and performance tasks provide students the opportunity to expand content knowledge and demonstrate skills in science and engineering. Deeper conceptual understanding of science and engineering is also supported through digital simulations and game-based learning.



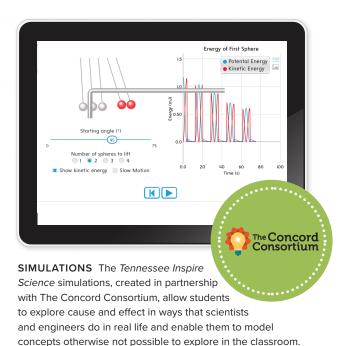




HANDS-ON LEARNING



GAME-BASED LEARNING Filament Games creates digital learning games and interactives designed to foster 21st-century skills through experiential learning. Tennessee Inspire Science has partnered with Filament Games to create game-based learning that enables students to "play" with the lesson concepts to deepen conceptual understanding.



# **☑** User-Friendly

# **User-Friendly Support**

Tennessee Inspire Science comes with extensive support and professional development to ensure that you are able to teach every one of our science lessons with great success—and feel like a real science guru, too!









#### PROFESSIONAL DEVELOPMENT

- Quick Start
- · Implementation
- Administrator Support Videos
- · Mastery Online Courses





DINAH ZIKE, M.ED. VKV® VIVI AND FOLDABLES®

- · Classroom Models
- · Coaching
- · Demonstration Videos







PAGE KEELEY, M.ED. **FORMATIVE ASSESSMENT PROBES** 

- Classroom Models
- Coaching
- · Teaching Techniques for Science Probes

coaching, and training Jo Anne Vasquez, and Dr. Rhett Allain.



# Preparing the Next Generation of Innovators

Tennesse Inspire Science integrates Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts with literacy and mathematics standards so teaching science feels as natural and intuitive as it should be.



#### THE CONTENT IN FOCUS

(for example, "The Universe and Its Stars")



#### THE SKILLS

(for example, "Developing and Using Models")



#### THE COMMON THEMES

(for example, "System and System Models")





## STUDENTS APPLY AND DEMONSTRATE THEIR UNDERSTANDING

Students apply and demonstrate their understanding by using the Disciplinary Core Ideas, the Science and Engineering Practices and the Crosscutting Concepts together.

(for example, "Use observations of the sun, moon, and stars to describe patterns that can be predicted.")

## Cross-Curricular Connections

LITERACY

MATH

ALL GREAT SCIENTISTS AND ENGINEERS NEED STRONG LITERACY AND MATH SKILLS.

The Tennessee Inspire Science lesson include crosscurricular connections with quick and easy references to the specific literacy and math skills being reinforced through the science investigations.

## Decoding the Tennessee Academic Standards for Science





### **Cross-Curricular Connections**

Tennessee Inspire Science connects the science you teach to the core subjects your students study. By integrating science, literature, and math, students master key concepts that impact science and beyond.



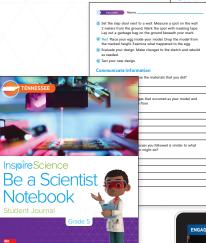




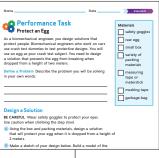
#### Science + Engineering Practices

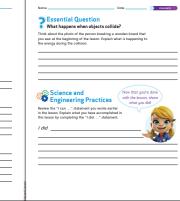
Students achieve and demonstrate greater understanding through hands-on science and engineering activities using the engineering design process.

- · Student driven inquiry
- · Using technology to enhance learning
- · Asking Questions and Defining Problems
- · Creating and Modifying Models
- · Planning and Carrying Out Investigations
- · Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- · Constructing Explanations
- Designing Solutions
- Engaging in Argument from Evidence
- Obtaining, Evaluating, and Communicating Information
- Driving innovation













#### **Math Practices**

Students solve science and engineering challenges using math skills including:

- · Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- · Developing and Using Models
- Obtaining, Evaluating, and Communicating Information



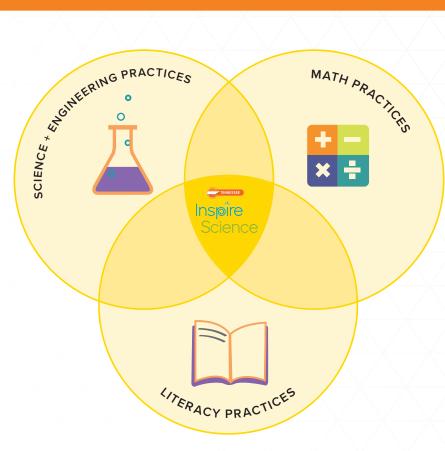
Fish Caught

Fish Population in Lake

Season

SIMULATIONS

# ☐ Connected





**ANTONIO**Robotics Engineer

Hi, I'm Antonio and I'm one of the **STEM**Career Kids! We'll lead your students through

Tennessee Inspire

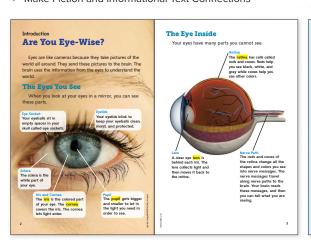
Science!



#### **Literacy Practices**

Students hone close reading, writing, and communication skills, develop solutions to real-world challenges while learning about exciting science content.

- Build Literacy Skills and Science Knowledge with Content-Rich Text
- · Obtain, Evaluate, and Communicate Findings Effectively in Response to Tasks
- Engage in Arguments From Evidence and Apply Reasoning Skills
- · Develop Research and Close-Reading Skills
- Advance Communication and Writing Skills with Text-Dependent Questions
- · Develop Summary and Text-Evidence Skills
- Make Fiction and Informational Text Connections



# Summarize Use important details to summarize The Way Figes See It is a nonfliction text? Identify the text features that tell you the summarize The Way Figes See It is a nonfliction text? Identify the text features that tell you the summarize The Way Figes See It is a nonfliction text? Identify the text features that tell you the summarize The Way Figes See It is a nonfliction text? Identify the text features that tell you the summarize The Way Figes See It is a nonfliction text? Identify the text features that tell you the See It is a nonfliction text? Identify the sum of the see It is a nonfliction text? Identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text? I identify the see It is a nonfliction text of the see It is a non

#### LEVELED READERS

Approaching, On, Beyond, ELL, & On-Level Spanish (Grades K-5)



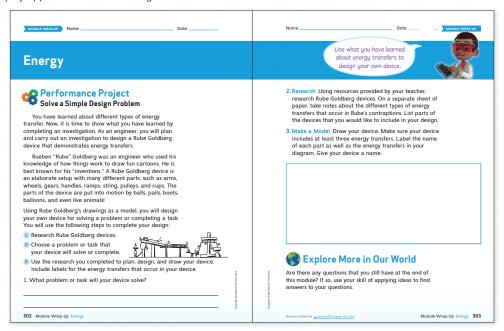
## **Preparing Tomorrow's Innovators**

The pace of change is accelerating. The challenges your students will face in their careers will likely be ones that don't even exist yet. Their future will require problem-solving skills that go beyond the status quo. *Tennessee Inspire Science* is designed to help today's students prepare for any future they may face through an emphasis on problem-based and career-based learning. With *Tennessee Inspire Science*, your students will learn to think like scientists and engineers, and develop the skills they need to create solutions to everyday challenges.



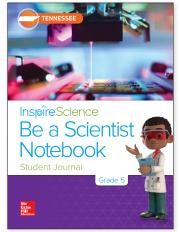
#### **Problem-Based Learning**

Empower students to develop critical-thinking through Tennessee Inspire Science's problem-based learning and inquiry opportunities found throughout each lesson.





MALIK Photonics Engineer





#### PERFORMANCE PROJECT

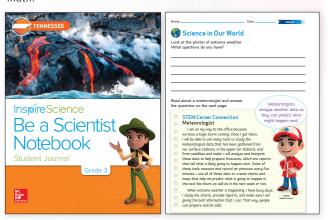
Students will apply their learning with a performance projects at the close of every module.

# A Inspiring



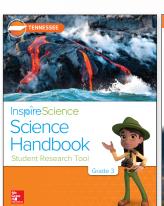
#### **Career-Based Learning**

Expose students to real-life STEM careers to build knowledge and create excitement about future careers in science, technology, engineering, and math.



Every lesson opens with a STEM Career Kid video.











STEM Career Connections Introduce STEM career connections with ready-made ePresentation slides found in every lesson.



STEM Career Kid Videos Create curiosity about future careers with the Inspire Science STEM Career Kid videos.



STEM Career Videos
Continue to build excitement and make career connections with real-life STEM Career videos.







**USER-FRIENDLY • CONNECTED • INSPIRING** 



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