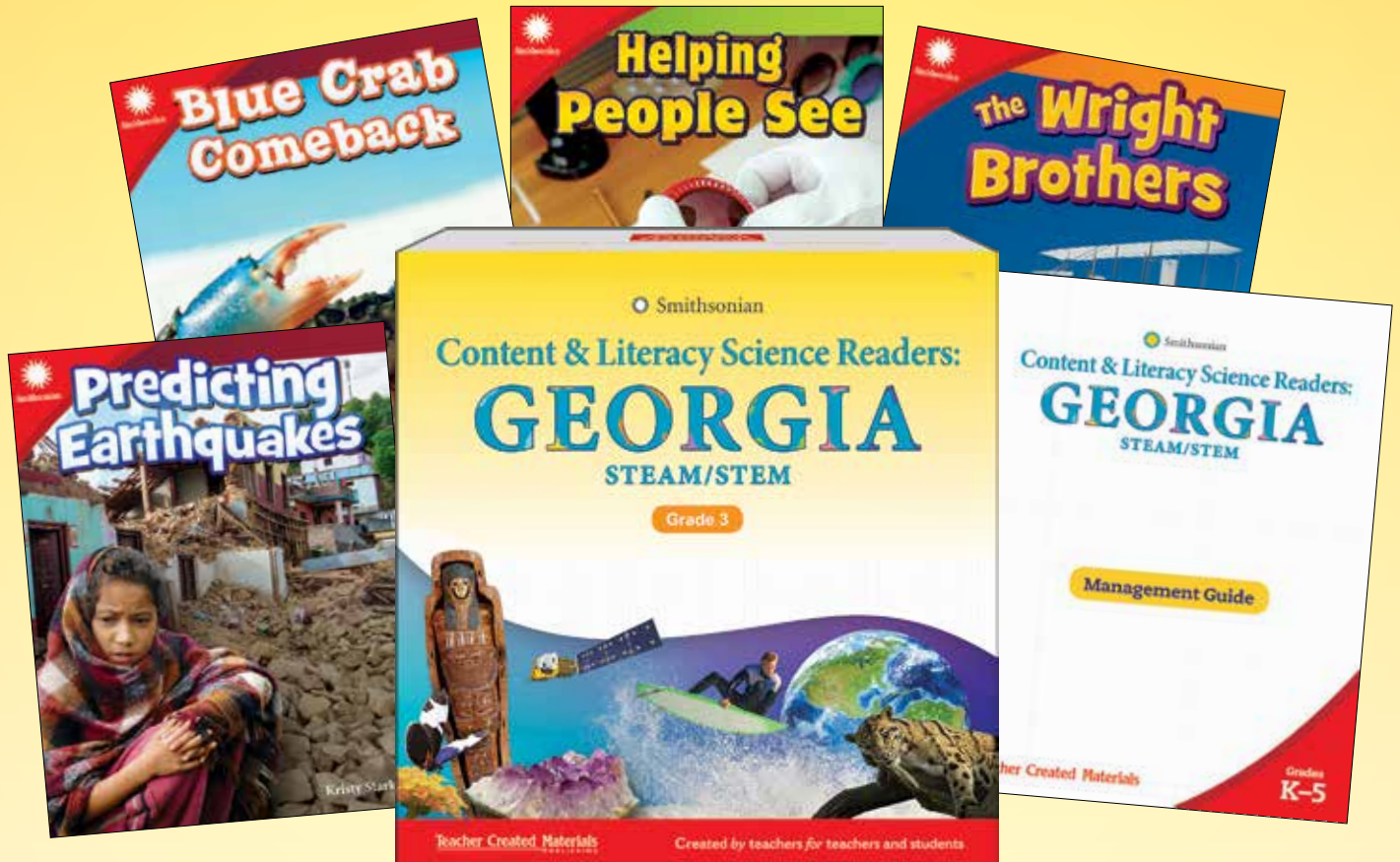


# Content & Literacy Science Readers: **GEORGIA** STEAM/STEM

Aligned to the Science Georgia Standards of Excellence (GSE)



*Inspire curiosity.*



North Georgia:  
Petra Griffin  
(678) 963-0938  
petragriffin@earthlink.net

*Inspire perseverance.*



South Georgia:  
Paula Cobb  
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*Inspire wonder.*



# Content & Literacy Science Readers: GEORGIA STEAM/STEM

Aligned to the Science Georgia Standards of Excellence (GSE)

**Inspire curiosity, perseverance, and wonder about the world!**

Empower students to become independent learners and problem solvers, and engage them with high-interest readers that build literacy while fostering creativity and innovation.



## Benefits / Highlights

### Integrating STEAM/STEM and Literacy Instruction

The readers highlight components of STEAM/STEM—science, technology, engineering, the arts, and mathematics.

#### TECHNOLOGY

##### Cool Tool

Everything on Earth gives off heat. Even things that are very cold, such as ice, give off some heat. That is why it can be hard to use infrared telescopes on Earth. They pick up the heat of their surroundings.

#### ARTS

##### Stonehenge

People may have studied the moon and stars since the Stone Age. Many ancient structures from all over the world seem to relate to the paths of the sun and moon in the sky. One of the most famous is Stonehenge in England. At first, people thought that the monument was only a work of art. Then, they noticed that the stones line up with the sun and moon at different times of the year.

**Points of View**  
Milky Way is hard to map because of its size. Over the centuries, astronomers have tried different ways to chart the stars. Tiling each time they learn something new. It is like another piece to a giant puzzle!

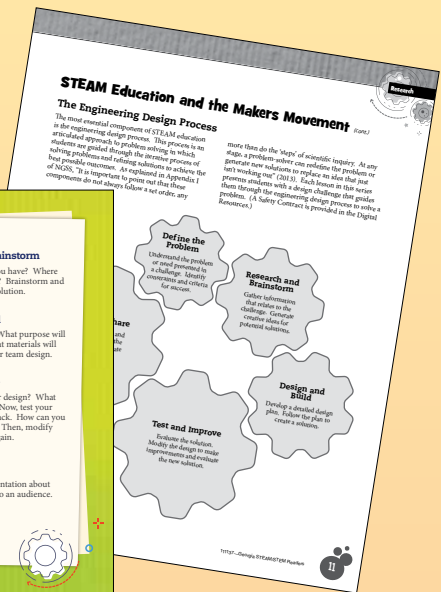
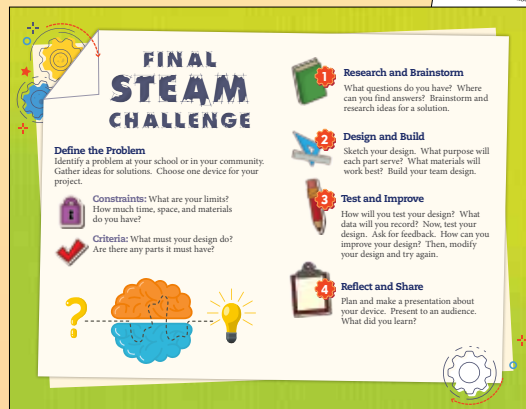
Betty Lewent was a scientist. She worked at Harvard in the 1900s. She found a way to measure the distance of stars by how their brightness changed over time. Her friend astronomers learn about the Milky Way. One of them is Harlow Shapley. He measured distances to groups across the Milky Way. Some of these groups formed around one place in space. This sphere seemed to be the center of the Milky Way. This showed that the sun was not the center of the galaxy.

**Herschel works on his map of the Milky Way.**

**Stonehenge**  
People may have studied the moon and stars since the Stone Age. Many ancient structures from all over the world seem to relate to the paths of the sun and moon in the sky. One of the most famous is Stonehenge in England. At first, people thought that the monument was only a work of art. Then, they noticed that the stones line up with the sun and moon at different times of year.

### A Focus on Engineering

Through hands-on STEAM/STEM activities, students engage in the engineering design process to design, test, and improve solutions.



## Students will:

- Immerse themselves in all aspects of STEAM—science, technology, engineering, the arts, and mathematics—and will engage in the engineering design process to solve problems.
- Learn about and experience examples of failure and persistence that lead to successful design and innovation.
- Develop an appreciation of the power of perseverance, helping them see their true potential and how they can change the world around them.



**Fostering Content-Area Literacy**

Reading students through the effective use of comprehension strategies to usually considered the task of English or language arts teachers. However, comprehension strategies best serve students when they are employed across the curricula and in the context of actual learning. It is why then that students can independently use reading strategies successfully.

**STEAM and Literacy**

STEAM is one content area (or five, if you must) to be precise) in which literacy can be cultivated and developed. It is a powerful approach to learning that is gaining momentum across the nation. As with many education initiatives, STEAM means different things to different people. Most people agree that STEAM is the integration of science, technology, engineering, the arts, and mathematics to solve real-world problems. Students must learn how to question, explore, and analyze natural phenomena. With these skills set in hand, students understand the complexity of available information and are empowered to become independent learners and problem solvers. Goals for advancing literacy skills through STEAM content go beyond reading, writing, speaking, and listening.

**Goals for Building Literacy with STEAM Content**

© 2017 Georgia STEAM2020 Summit

**STEAM Education and the Makers Movement**

STEM has become a common educational acronym over the past decade. Creativity is another essential component for innovation. The focus for creative skills is the Makers Movement. The Makers Movement is an international movement where students and makers invent, create, collaborate, and thoughtful risk taking. STEAM field will benefit because there is a STEM or related role almost any career.

**This series immerses students in STEAM education.**

**Informational Texts**  
examine engineering innovations and solutions to real-world problems, highlighting how each STEAM concept (science, technology, engineering, the arts, and math) applies.

**STEAM Challenges**  
prompt students to use creativity, collaboration, critical thinking, and communication skills to find solutions.

**Content and Images**  
improve variety, persistence, and wonder about the world.

© 2017 Georgia STEAM2020 Summit

## A Balanced Instructional Approach

Merge literacy instruction with STEAM/STEM concepts and the 5E instructional model.

## Extend the Reading Experience

Interactiv-eBooks immerse students in content and build digital literacy.

Bolded words indicate content vocabulary with definitions in the Glossary.

Embedded videos increase student engagement

Digital annotation tools support close reading and build comprehension skills.

**Meet Clouded Leopards**

What do scientists know about clouded leopards? They are small but a "big" cat. They weigh between 11 and 25 kilograms (25 and 55 pounds). Their appearance gives them almost how they live. They have long tails and short legs compared to other wild cats. Their spots give them good balance so they can climb trees.

Clouded leopards also have big jaws with sharp claws. Their paws are flexible, and their rear ankles turn backward. These traits help them grip branches so they can climb down a tree headfirst!

**Special Sounds**

Like most and lesser cats growl. Clouded leopards do nothing. Instead, they growl, hiss, and hiss. Why do different cat species make different sounds? Differences in the bones and shape of a cat's throat change the sounds it can make.

**Open Wide**

Clouded leopards have large, powerful jaws. These leopards can bite through a 200-degree angle. Their three rows of sharp teeth help them tear apart their prey.

Text-to-speech highlighting supports struggling readers.

Recording tools help students practice fluency and allow teachers to assess fluency.

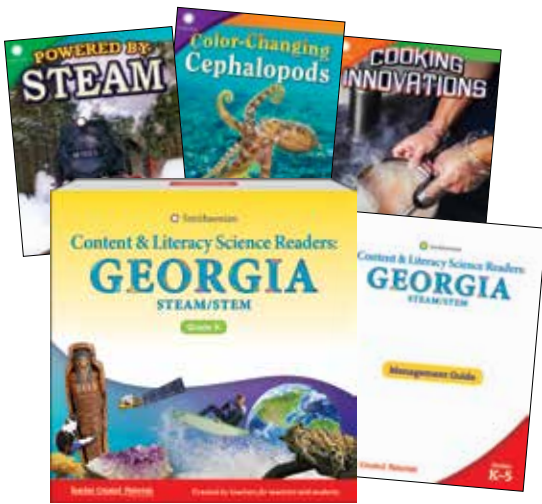
Embedded audio allows students to hear examples of fluent reading.

# Content & Literacy Science Readers: GEORGIA STEAM/STEM

Aligned to the Science Georgia Standards of Excellence (GSE)

"The information in the Management Guide is well laid out and provides strong evidence and reasons why teachers would want to incorporate *Smithsonian STEAM Readers* in their curriculum...The 5E model facilitates teaching the lessons over a period of time...The format for all of the readers [and lesson plans] is very organized and easy for a teacher to follow and implement."

—Tamiaka Grizzle, Ed.D.  
K-5 STEM Lab Teacher



## Each kit includes:

Inspire curiosity.

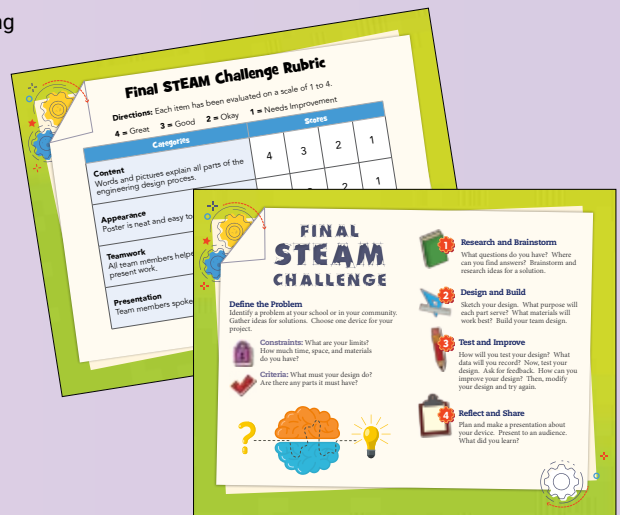


### Books

Captivate students with rich text and vibrant images.

- Multiple reading levels
- 10–12 titles, 6 copies of each
- In print and digital format for blended learning

Inspire wonder.



### Digital Resources

Extend the reading experience and build digital literacy.

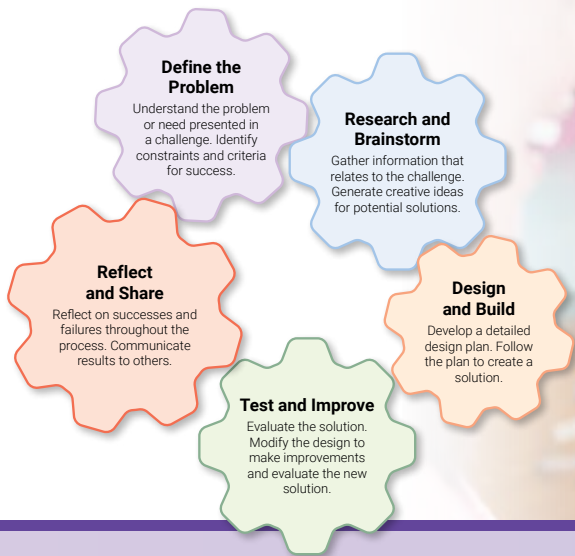
- Interactiv-eBooks keep students engaged
- Professional audio recordings model fluency
- Student reproducibles support hands-on learning

### Culminating Activity

Challenge students to apply what they've learned in a Culminating Activity to solve real-world problems.

Components and prices are subject to change.

# The Engineering Design Process



Inspire perseverance.



**Amphibian Rescue**

**Materials**

- Amphibian Rescue Book
- copies of reading activity sheet (pages 9-10)
- glue sticks
- STEAM Challenge materials (books that you will build the frog out of)
- glue sticks
- plastic bottle
- plastic cap
- plastic pipe or straw
- plastic pipe or straw
- glue sticks
- scissors
- cardstock
- colored paper
- construction paper

**Learning Objectives**

- Read: Use information gathered from the text to answer questions and solve problems.
- Write: Write a paragraph about the frog and its habitat.
- Apply: Build an amphibian from recycled materials.

**Phenomena**

**Lesson Timeline**

Day 1	Day 2	Day 3	Day 4	Day 5-10
Introduction and Read the Book	During Reading Activities (page 9)	Read the Book	Read the Book	STEAM Challenge and Build the Frog
Research the Frog and the Book	Research the Frog and the Book	Research the Frog and the Book	Research the Frog and the Book	Research the Frog and the Book

**Make a Plan**

Directions: Summarize the challenge on the lines. Brainstorm ideas and sketch two designs. Circle your favorite.

Brainstorming

Design 1

Design 2

**Frog Catching Test Results**

Directions: Write the materials each team used. Mark results of each team's test by circling yes or no. Then, answer the questions.

Team	Materials	Did the frog catch both frogs?
		Yes/No
		Yes/No
		Yes/No
		Yes/No

Sketch the frog you think was most successful.

What ideas will you use from this frog of your own?

**Collaborative Design**

Team Members: \_\_\_\_\_  
Date: \_\_\_\_\_

Directions: Sketch your team's design in the first box. Sketch your team's improved design in the second box. Label each design with materials needed and the purpose of each part.

Design 1

## Lessons

Strengthen content-area literacy, critical thinking, and problem-solving skills.

- Standards-based lesson plans
- STEAM/STEM challenges that inspire students to be makers as they design, build, test, and improve solutions

## Management Guide

Integrate STEAM/STEM education into literacy instruction.

- Comprehensive correlation to Science GSEs for each grade
- Connects to Georgia Lesson Notes documents for specific GSE alignment details
- Research based
- Includes differentiation tips and additional support

**Kindergarten**

About the Books

Title of the Book	Lexile Level	Guided Reading	IRA Anecdotes	Early Literacy Practices
Building Sandcastles	480	J	14	12
Pushing the Right Container	290	B	A	A
Pushing Paper	230	B	A	2
Getting Life	320	B	2	2
Playing with the Wind	380	F	10	10
Pushing Tuffy	490	K	16	16
Pushing Paper	550	B	6	6
Pushing Paper	300	D	6	6
Pushing Paper	210	B	2	2

**STEAM Education and the Makers Movement**

STEAM has become a common educational acronym over the past decade. Creativity is another essential component for innovation. The need for creative problem solvers is increasing. The need for creative problem solvers is increasing. The need for creative problem solvers is increasing.

**Informational Texts**

explore engineering innovations and solutions to real-world problems.

**STEM Challenges**

encourage students to use creativity, collaboration, critical thinking, and communication skills to find solutions.

**Content and Images**

inspire curiosity, perseverance, and wonder about the world.

**Fourth Grade GSE Lesson Notes**

**Conserving an Aircraft**

Conserving an Aircraft

Summary

STEAM Challenge: How can we conserve an aircraft? How can we conserve an aircraft? How can we conserve an aircraft?

Components and prices are subject to change.



# Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade K

Aligned to the Science Georgia Standards of Excellence (GSE)

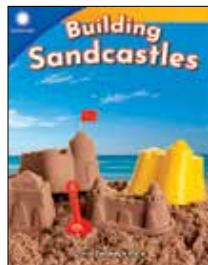
Title	Item	Price
<b>Complete Kit</b>	<b>GST111129</b>	<b>\$549.99</b>
Add-on Pack (1 of each title; 10 books total)	GST111153	\$67.99
6-packs with lesson plans	See item numbers below.	\$39.99 ea.

**6-packs with lesson plans • \$39.99 each**

**Earth & Space Science**

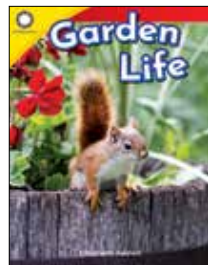


**Seeing More Stars**  
GSE: SKE1  
Lexile®: 450L  
GR: K  
Item: GST113199

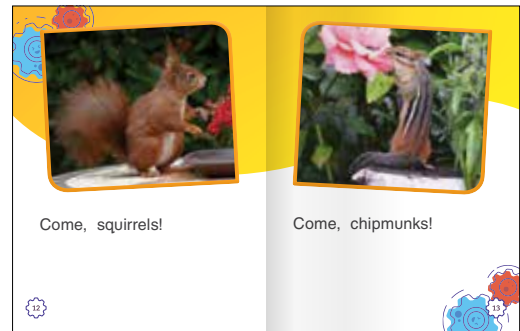


**Building Sandcastles**  
GSE: SKE2; SKP1  
Lexile®: 480L  
GR: J  
Item: GST113200

**Life Science**

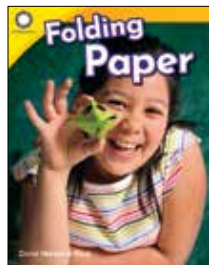


**Garden Life**  
GSE: SKL1  
Lexile®: 230L  
GR: B  
Item: GST113203



*Garden Life*

**Physical Science**



**Folding Paper**  
GSE: SKP1  
Lexile®: 150L  
GR: A  
Item: GST113206



**Staying Afloat**  
GSE: SKP1  
Lexile®: 250L  
GR: B  
Item: GST113207



**Taking Food To Go**  
GSE: SKP1  
Lexile®: 300L  
GR: D  
Item: GST113208



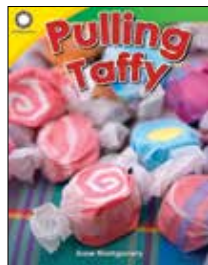
**Finding the Right Container**  
GSE: SKP1b  
Lexile®: 290L  
GR: B  
Item: GST113204



**What Toys Can Do**  
GSE: SKP1c  
Lexile®: 210L  
GR: B  
Item: GST113205



**Playing with Wind**  
GSE: SKP2  
Lexile®: 320L  
GR: B  
Item: GST113202



**Pulling Taffy**  
GSE: SKP2  
Lexile®: 380L  
GR: F  
Item: GST113201



*Pulling Taffy*

Components and prices are subject to change.

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# Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade 1

Aligned to the Science Georgia Standards of Excellence (GSE)

Title	Item	Price
<b>Complete Kit</b>	<b>GST111130</b>	<b>\$619.99</b>
Add-on Pack (1 of each title; 12 books total)	GST111154	\$81.99
6-packs with lesson plans	See item numbers below.	\$39.99 ea.



**6-packs with lesson plans • \$39.99 each**

**Earth & Space Science**



**Staying Dry**  
GSE: S1E1  
Lexile®: 550L  
GR: O  
Item: GST113209



**Cooling Off**  
GSE: S1E1  
Lexile®: 440L  
GR: I  
Item: GST113216



**Staying Warm**  
GSE: S1E1; S1L1  
Lexile®: 480L  
GR: I  
Item: GST113213



**Studying Snowflakes**  
GSE: S1E1  
Lexile®: 500L  
GR: L  
Item: GST113220

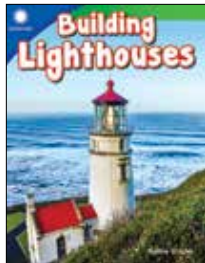


**Natural Protection**

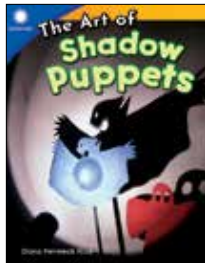
Wet weather is a fact of life. Animals know where to go to stay dry. Some animals look down. They dig burrows in the ground to stay away from rain. Other animals find plants to use as shelter. Leaves can block rainfall. Engineers see how animals stay dry. It inspires them to keep people dry the same way.

Staying Dry

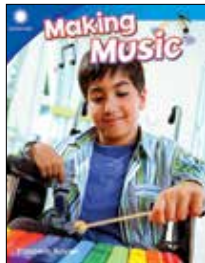
**Physical Science**



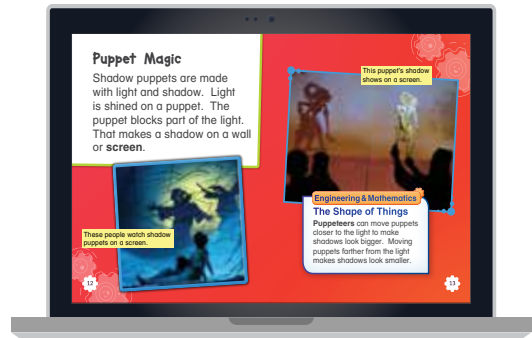
**Building Lighthouses**  
GSE: S1P1  
Lexile®: 470L  
GR: K  
Item: GST113212



**The Art of Shadow Puppets**  
GSE: S1P1  
Lexile®: 420L  
GR: L  
Item: GST113214



**Making Music**  
GSE: S1P1  
Lexile®: 450L  
GR: K  
Item: GST113215



**Puppet Magic**

Shadow puppets are made with light and shadow. Light is shined on a puppet. The puppet blocks part of the light. That makes a shadow on a wall or screen.

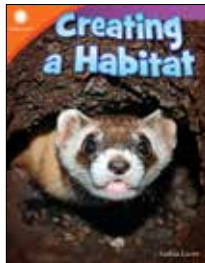
This puppet's shadow shows on a screen.

**Engineering & Mathematics**

**The Shape of Things**  
Puppeteers can move puppets closer to the light to make shadows look bigger. Moving puppets farther from the light makes shadows look smaller.

The Art of Shadow Puppets

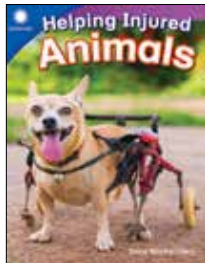
**Life Science**



**Creating a Habitat**  
GSE: S1L1  
Lexile®: 560L  
GR: O  
Item: GST113210



**Solving Problems at the Zoo**  
GSE: S1L1  
Lexile®: 480L  
GR: K  
Item: GST113211



**Helping Injured Animals**  
GSE: S1L1  
Lexile®: 500L  
GR: L  
Item: GST113217

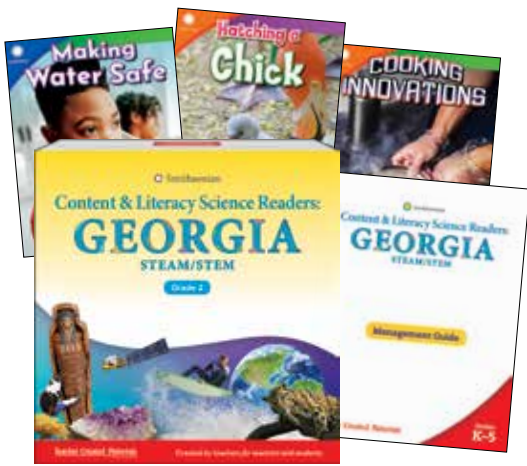


**Building a Beaver Lodge**  
GSE: S1L1  
Lexile®: 320L  
GR: C  
Item: GST113218



**Learning About Sharks**  
GSE: S1L1  
Lexile®: 310L  
GR: D  
Item: GST113219

Components and prices are subject to change.



 Smithsonian

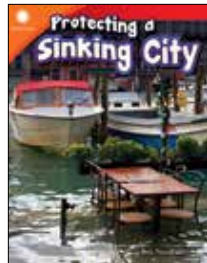
## Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade 2

Aligned to the Science Georgia Standards of Excellence (GSE)

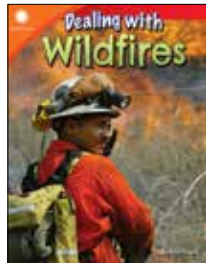
Title	Item	Price
<b>Complete Kit</b>	<b>GST111131</b>	<b>\$639.99</b>
Add-on Pack (1 of each title; 10 books total)	GST111155	\$74.99
6-packs with lesson plans	See item numbers below.	\$43.99 ea.

6-packs with lesson plans • \$43.99 each

Earth & Space Science



**Saving A Sinking City**  
GSE: S2E3  
Lexile®: 590L  
GR: Q  
Item: GST113222



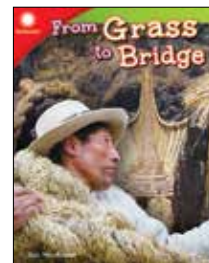
**Dealing with Wildfires**  
GSE: S2E3  
Lexile®: 570L  
GR: P  
Item: GST113223



**Living in Sunlight Extremes**  
GSE: S2E2  
Lexile®: 560L  
GR: P  
Item: GST113224



**Making Water Safe**  
GSE: S2E3  
Lexile®: 420L  
GR: K  
Item: GST113228



**From Grass to Bridge**  
GSE: S2E3  
Lexile®: 650L  
GR: V  
Item: GST113230

Physical Science



**Safe Cycling**  
GSE: S2P1; S2P2  
Lexile®: 580L  
GR: O  
Item: GST113225



**Cooking Innovations**  
GSE: S2P1  
Lexile®: 560L  
GR: Q  
Item: GST113227



Cooking Innovations

Life Science



**Mimicking Nature**  
GSE: S2L1c  
Lexile®: 610L  
GR: Q  
Item: GST113221



**Hatching a Chick**  
GSE: S2L1  
Lexile®: 710L  
GR: O  
Item: GST113226



**Raising Silkworms**  
GSE: S2L1  
Lexile®: 530L  
GR: M  
Item: GST113229



Raising Silkworms

Components and prices are subject to change.

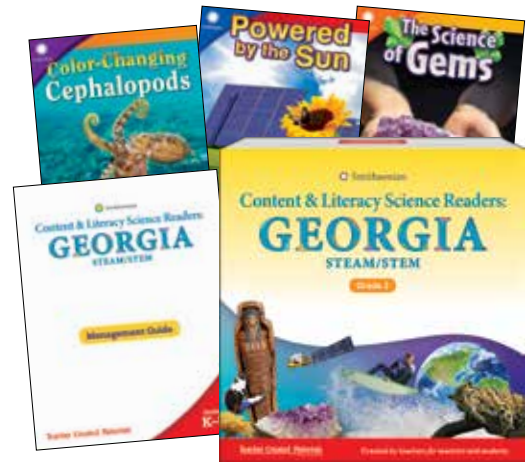
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# Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade 3

Aligned to the Science Georgia Standards of Excellence (GSE)

Title	Item	Price
<b>Complete Kit</b>	<b>GST111132</b>	<b>\$699.99</b>
Add-on Pack (1 of each title; 12 books total)	GST111156	\$89.99
6-packs with lesson plans	See item numbers below.	\$43.99 ea.



**6-packs with lesson plans • \$43.99 each**

**Earth & Space Science**



**The Science of Gems**  
GSE: S3E1  
Lexile®: 640L  
GR: P  
Item: GST113238



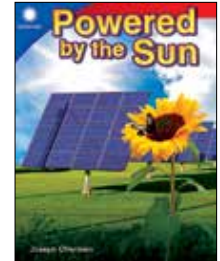
**Bones on Display**  
GSE: S3E2  
Lexile®: 590L  
GR: P  
Item: GST113239



*The Science of Gems*



**Taking Photos from Space**  
GSE: S3P1  
Lexile®: 680L  
GR: V  
Item: GST113235



**Powered by the Sun**  
GSE: S3P1  
Lexile®: 490L  
GR: L  
Item: GST113241

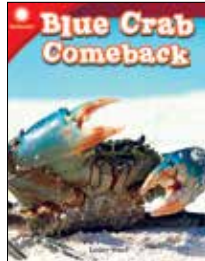
**Life Science**



**Piecing Art Together**  
GSE: S3L2  
Lexile®: 580L  
GR: N  
Item: GST113240



**Being Like Butterflies**  
GSE: S3L1  
Lexile®: 490L  
GR: J  
Item: GST113242



**Blue Crab Comeback**  
GSE: S3L1; S3L2  
Lexile®: 680L  
GR: S  
Item: GST113236



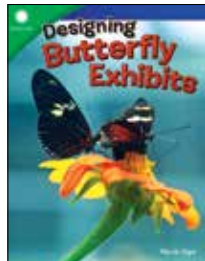
**Organic Farming**  
GSE: S3L1; S3P1; S3E1  
Lexile®: 710L  
GR: S  
Item: GST113237



*Taking Photos from Space*



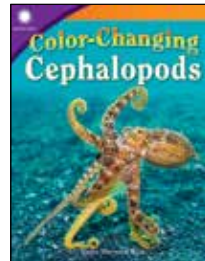
**Amphibian Rescue**  
GSE: S3L1; S3L2  
Lexile®: 660L  
GR: Q  
Item: GST113231



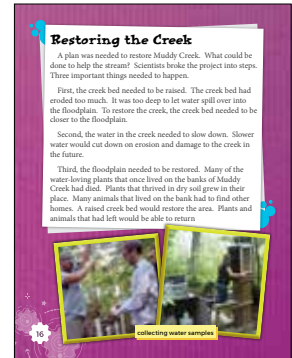
**Designing Butterfly Exhibits**  
GSE: S3L1  
Lexile®: 680L  
GR: S  
Item: GST113232



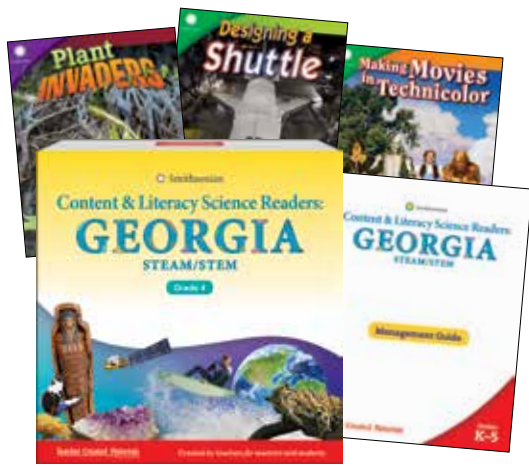
**Restoring Muddy Creek**  
GSE: S3L1; S3L2; S3E2  
Lexile®: 700L  
GR: S  
Item: GST113233



**Color-Changing Cephalopods**  
GSE: S3L1c  
Lexile®: 770L  
GR: W  
Item: GST113234



*Restoring Muddy Creek*



# Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade 4

Aligned to the Science Georgia Standards of Excellence (GSE)

Title	Item	Price
<b>Complete Kit</b>	<b>GST111133</b>	<b>\$699.99</b>
Add-on Pack (1 of each title; 12 books total)	GST111157	\$89.99
6-packs with lesson plans	See item numbers below.	\$43.99 ea.

**6-packs with lesson plans • \$43.99 each**

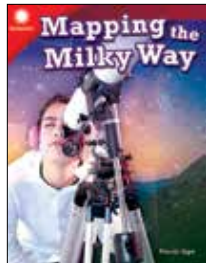
**Earth & Space Science**



**Designing A Shuttle**  
GSE: S4E1; S4P3  
Lexile®: 710L  
GR: V  
Item: GST113243



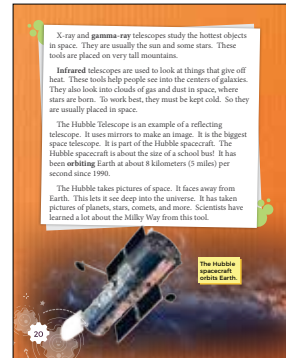
**Tracking a Storm**  
GSE: S4E4  
Lexile®: 730L  
GR: T  
Item: GST113250



**Mapping the Milky Way**  
GSE: S4E1  
Lexile®: 680L  
GR: U  
Item: GST113251

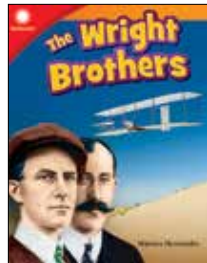


**The Culture of Calendars**  
GSE: S4E2  
Lexile®: 730L  
GR: T  
Item: GST113253



*Mapping the Milky Way*

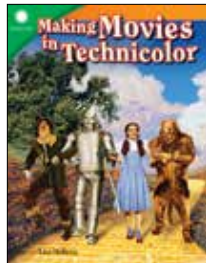
**Physical Science**



**The Wright Brothers**  
GSE: S4P3  
Lexile®: 680L  
GR: V  
Item: GST113244



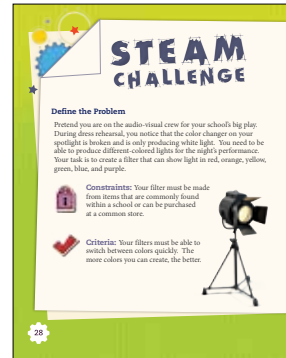
**Conserving an Aircraft**  
GSE: S4P3  
Lexile®: 730L  
GR: V  
Item: GST113245



**Making Movies in Technicolor**  
GSE: S4P1  
Lexile®: 710L  
GR: T  
Item: GST113252

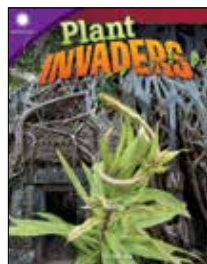


**Creative Machines**  
GSE: S4P3  
Lexile®: 560L  
GR: P  
Item: GST113254



*Making Movies in Technicolor*

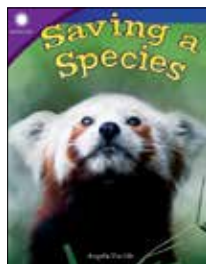
**Life Science**



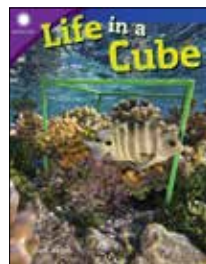
**Plant Invaders**  
GSE: S4L1c  
Lexile®: 780L  
GR: U  
Item: GST113246



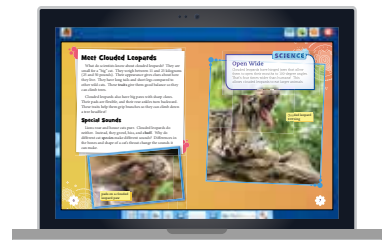
**Raising Clouded Leopards**  
GSE: S4L1  
Lexile®: 690L  
GR: R  
Item: GST113247



**Saving a Species**  
GSE: S4L1c  
Lexile®: 840L  
GR: S  
Item: GST113248



**Life in a Cube**  
GSE: S4L1  
Lexile®: 780L  
GR: V  
Item: GST113249



*Raising Clouded Leopards*

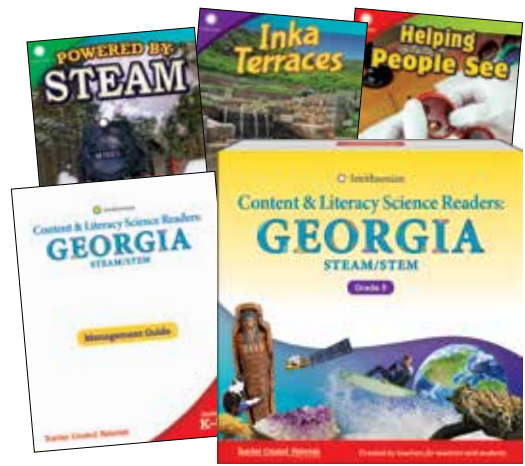
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# Content & Literacy Science Readers: GEORGIA STEAM/STEM Grade 5

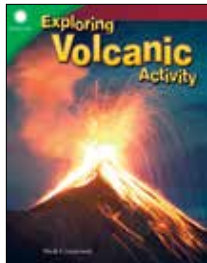
Aligned to the Science Georgia Standards of Excellence (GSE)

Title	Item	Price
<b>Complete Kit</b>	<b>GST111134</b>	<b>\$639.99</b>
Add-on Pack (1 of each title; 10 books total)	GST111158	\$74.99
6-packs with lesson plans	See item numbers below.	\$43.99 ea.



## 6-packs with lesson plans • \$43.99 each

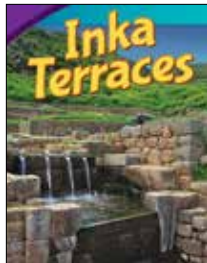
### Earth & Space Science



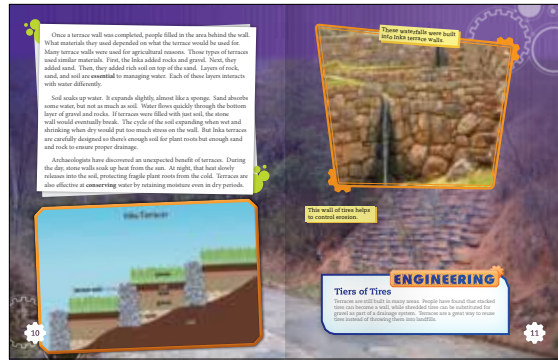
**Exploring Volcanic Activities**  
GSE: S5E1b  
Lexile®: 650L  
GR: U  
Item: GST113225



**Predicting Earthquakes**  
GSE: S5E1a  
Lexile®: 690L  
GR: U  
Item: GST113256

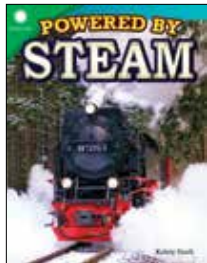


**Inka Terraces**  
GSE: S5E1c  
Lexile®: 860L  
GR: V  
Item: GST113257

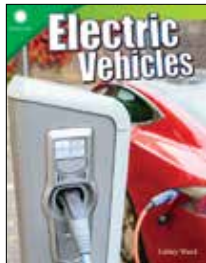


*Inka Terraces*

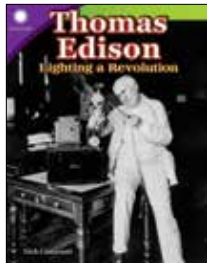
### Physical Science



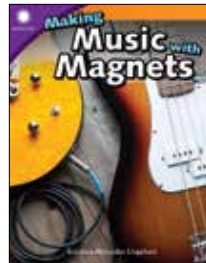
**Powered by STEAM**  
GSE: S5P1b; S5P2  
Lexile®: 710L  
GR: V  
Item: GST113258



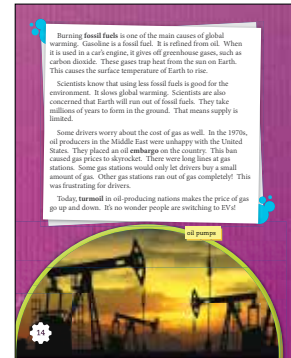
**Electric Vehicles**  
GSE: S5P2  
Lexile®: 770L  
GR: V  
Item: GST113259



**Thomas Edison**  
GSE: S5P2  
Lexile®: 720L  
GR: V  
Item: GST113260

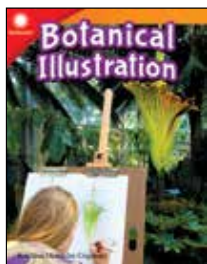


**Making Music with Magnets**  
GSE: S5P3  
Lexile®: 790L  
GR: W  
Item: GST113264



*Electric Vehicles*

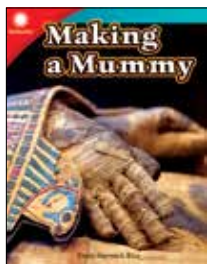
### Life Science



**Botanical Illustration**  
GSE: S5L1b  
Lexile®: 660L  
GR: U  
Item: GST113261



**Helping People See**  
GSE: S5L3a  
Lexile®: 600L  
GR: T  
Item: GST113262



**Making a Mummy**  
GSE: S5L4  
Lexile®: 650L  
GR: W  
Item: GST113263



*Making a Mummy*

Components and prices are subject to change.

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STEM & Innovation Supervisor  
Professional Development Consultant