

# Science Readers:

Georgia Edition  
Grades K–8

Aligned to the NEW  
Georgia Standards  
of Excellence!

**Questions? Contact your  
local representative:**

**North Georgia:**

**Petra Griffin**

Office: (770) 965-4202

Cell: (678) 478-1049

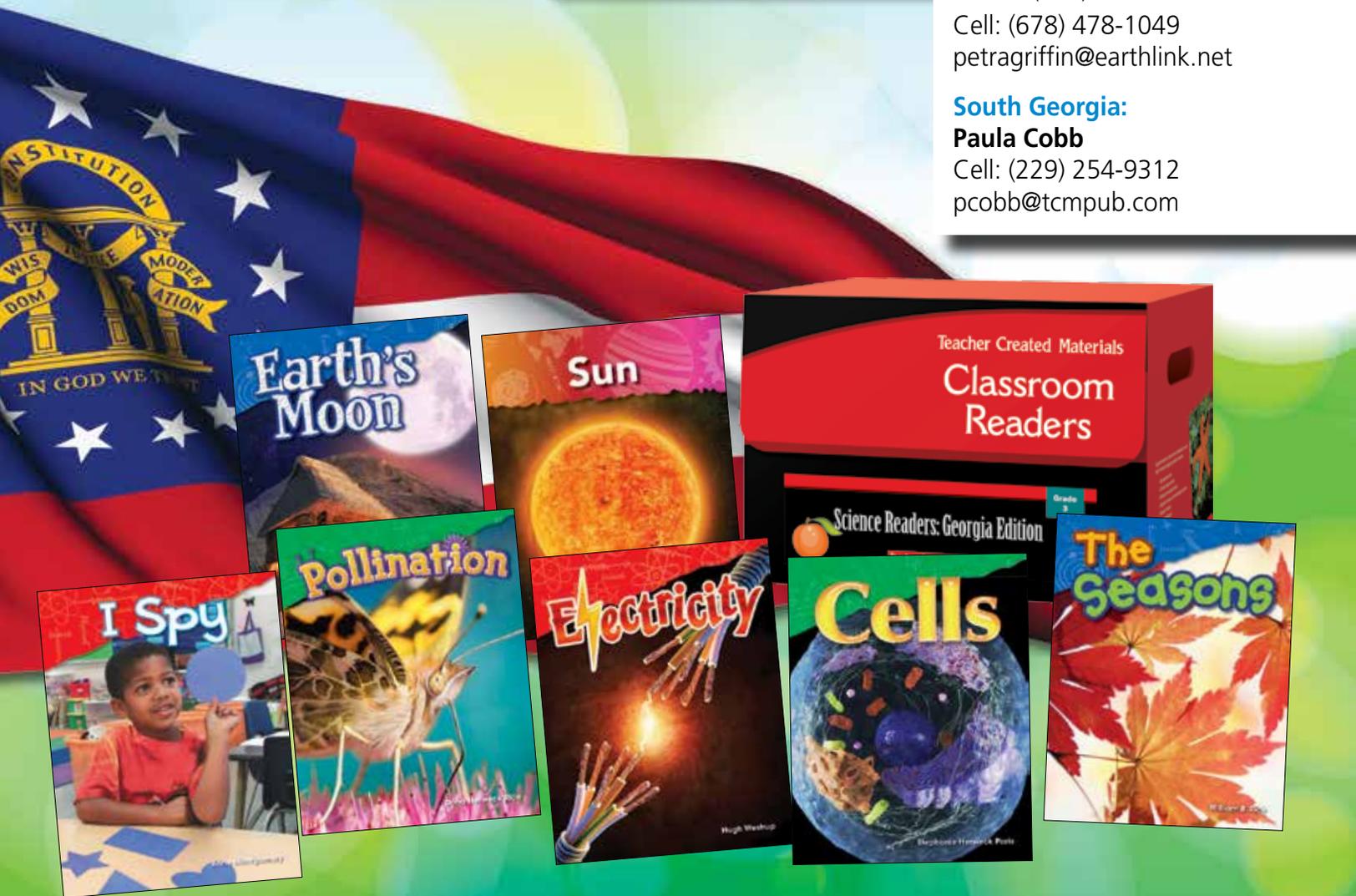
petragriffin@earthlink.net

**South Georgia:**

**Paula Cobb**

Cell: (229) 254-9312

pcobb@tcmpub.com



## Science Readers: Georgia Edition

Grades K–8

Align your curriculum to the new Georgia Standards of Excellence (GSE) for Science with these appealing and informative science readers! Each grade-level kit is developed by educators to teach critical science concepts and themes and keep students engaged as they learn.

### Each complete grade-level kit includes:

#### High-Interest Levelled Readers\*

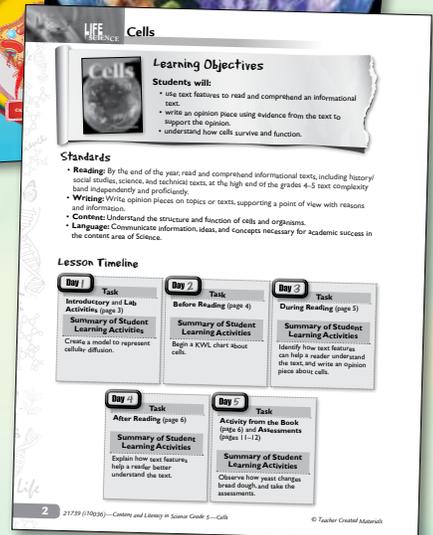
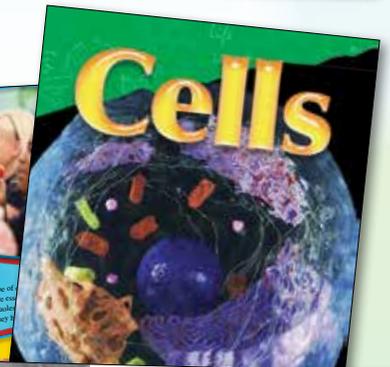
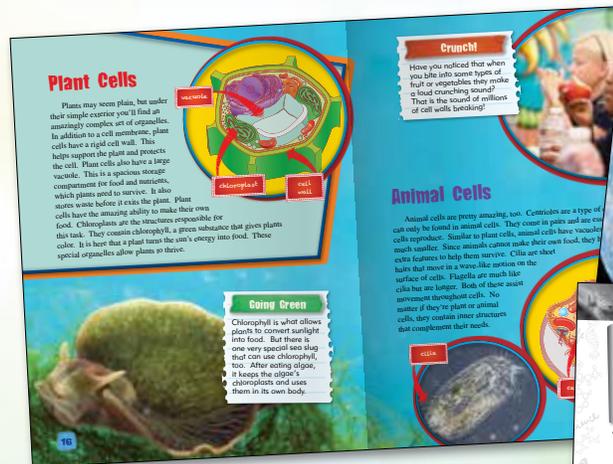
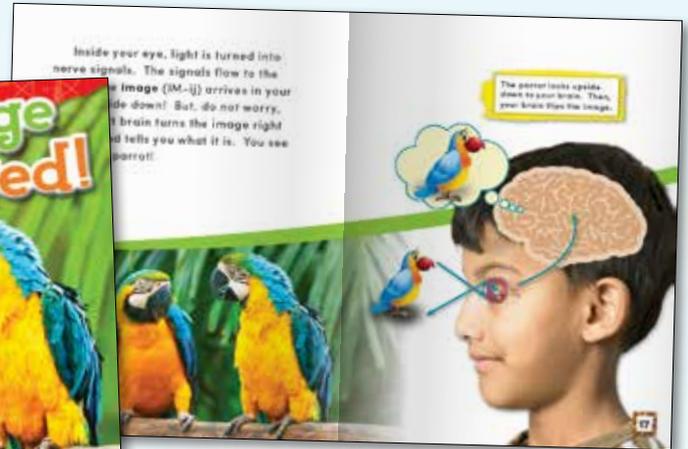
- ▶ 6 copies of each in print and digital formats
- ▶ A variety of text structures
- ▶ Academic vocabulary for science
- ▶ Hands-on science activities

#### Research-Based Lesson Plans

- ▶ Science concepts
- ▶ Reading and writing skills

#### Digital Resources

- ▶ eBooks
- ▶ Lesson plans
- ▶ Audio recordings



## Table of Contents

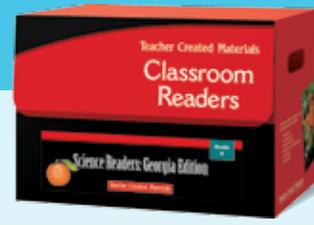
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\*Add-On Packs and 6-Packs also available. See pages 3–17.

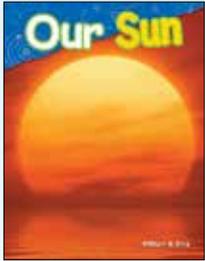
For additional resources that support the Georgia Science Standards, see pages 18–19.

# Grade K

Spark the curiosity of young learners with vivid images and easy-to-read informational texts! Each reader supports scientific content with engaging activities for a hands-on learning experience.



## Earth Science 6-Packs with lesson plans



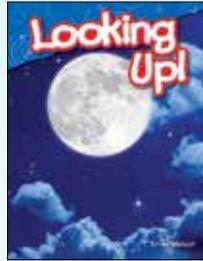
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Lexile®: 350L  
GR: G  
Item: SCG84628  
\$39.99



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GR: F  
Item: SCG84629  
\$43.99



**GSE: SKE1**  
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GR: A  
Item: SCG84630  
\$39.99

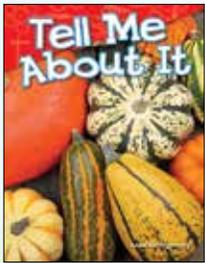


**GSE: SKE1**  
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Item: SCG84631  
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Looking Up!



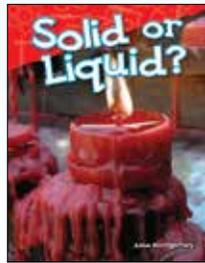
## Physical Science 6-Packs with lesson plans



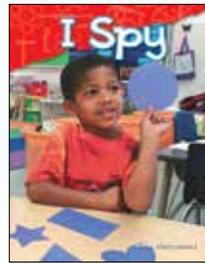
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GR: A  
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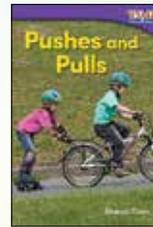
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Lexile®: BR  
GR: A  
Item: SCG84633  
\$39.99



**GSE: SKP1**  
Lexile®: BR  
GR: A  
Item: SCG84634  
\$39.99



**GSE: SKP1**  
Lexile®: BR  
GR: B  
Item: SCG84635  
\$39.99



**GSE: SKP2**  
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GR: A  
Item: SCG84636  
\$29.99

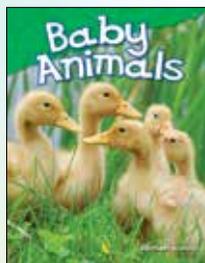
## Life Science 6-Packs with lesson plans



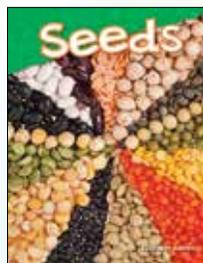
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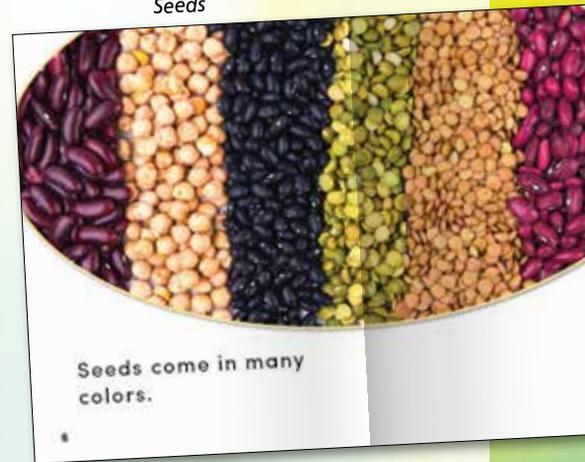


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\$39.99

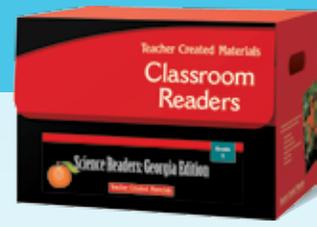
Seeds



Title	Item	Price
<b>Science Readers: Georgia Edition Grade K</b>		
Complete Kit (6-Packs of the 13 titles shown, plus lesson plans and digital resources)	SCG84941	\$619.99
Add-On Pack (Single copy of each reader; 13 titles total)	SCG84950	\$85.99

# Grade 1

Bring science standards to life with these engaging, colorful readers! Each reader includes examples of scientific practices and hands-on activities to support content-area concepts.



## Earth Science 6-Packs with lesson plans

The Seasons



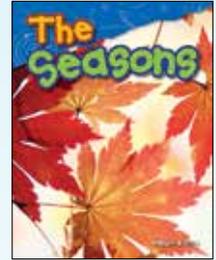
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GR: A  
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GR: A  
Item: SCG84642  
\$39.99



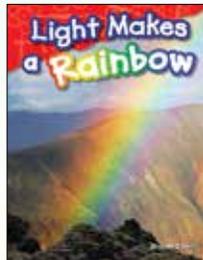
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Lexile®: BR  
GR: D  
Item: SCG84643  
\$29.99



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Lexile®: 320L  
GR: F  
Item: SCG84644  
\$39.99

## Physical Science 6-Packs with lesson plans

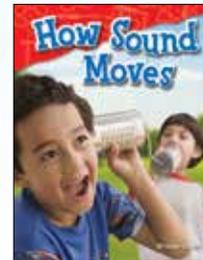
What Do Living Things Need?



**GSE: S1P1**  
Lexile®: 380L  
GR: H  
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\$39.99



**GSE: S1P1**  
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GR: D  
Item: SCG84646  
\$39.99

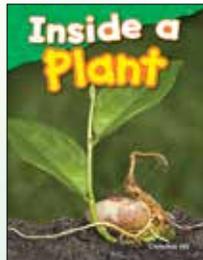


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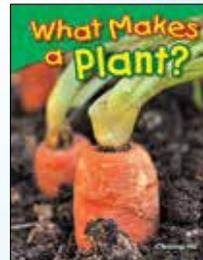


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GR: K  
Item: SCG84648  
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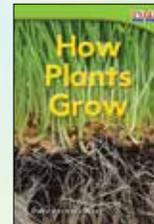
## Life Science 6-Packs with lesson plans



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Lexile®: 400L  
GR: H  
Item: SCG84649  
\$39.99



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Lexile®: 490L  
GR: K  
Item: SCG84650  
\$39.99



**GSE: S1L1**  
Lexile®: 110L  
GR: E  
Item: SCG84651  
\$29.99



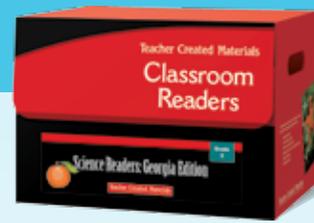
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GR: B  
Item: SCG84652  
\$39.99

See page 18 for additional resources.

Title	Item	Price
<b>Science Readers: Georgia Edition Grade 1</b>		
Complete Kit (6-Packs of the 12 titles shown, plus lesson plans and digital resources)	SCG84942	\$579.99
Add-On Pack (Single copy of each reader; 12 titles total)	SCG84951	\$76.99

# Grade 2

Introduce students to key scientific concepts with these engaging readers! Each reader supports new science standards and encourages collaboration and critical thinking.



## Earth Science 6-Packs with lesson plans

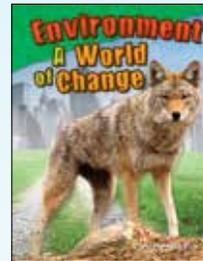


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Lexile®: 450L  
GR: J  
Item: SCG84653  
\$43.99



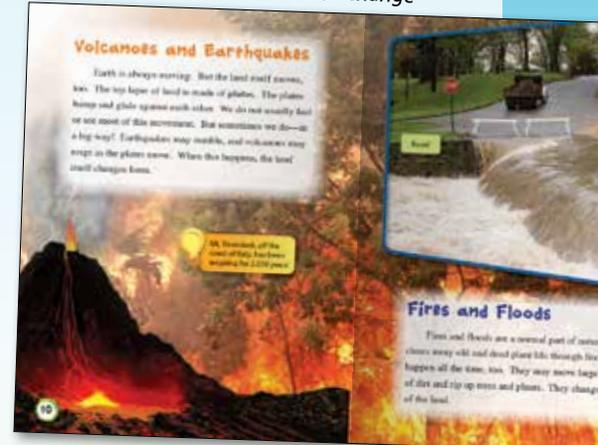
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GR: K  
Item: SCG84654  
\$39.99

## Earth & Life Science 6-Pack with lesson plan

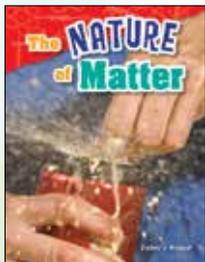


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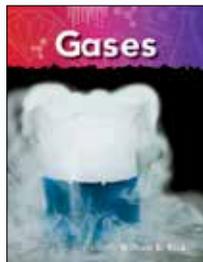
### Environment: A World of Change



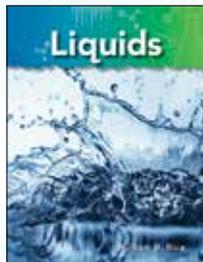
## Physical Science 6-Packs with lesson plans



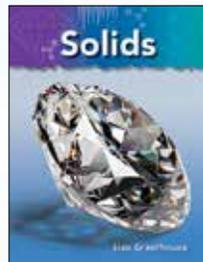
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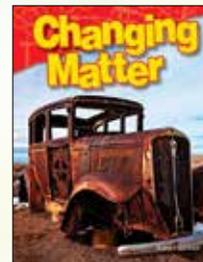
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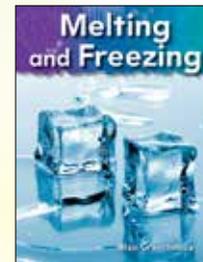
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GR: K  
Item: SCG84658  
\$43.99



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GR: K  
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\$43.99



**GSE: S2P1**  
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GR: O  
Item: SCG84660  
\$43.99

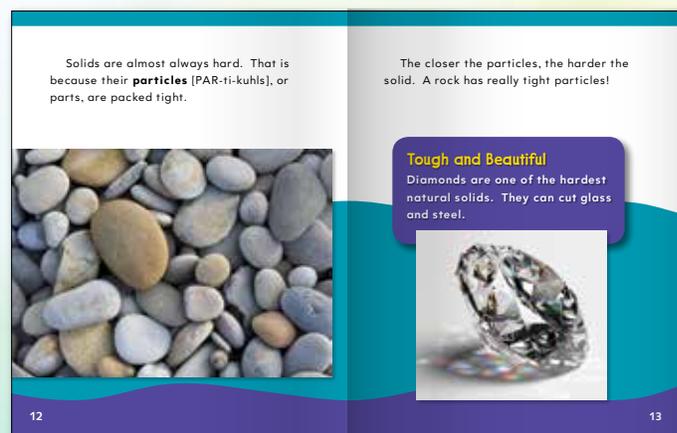


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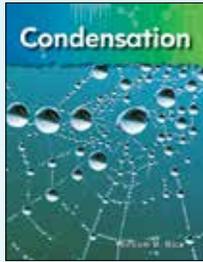
### Earth and Moon



### Solids



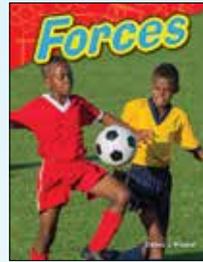
Physical Science 6-Packs with lesson plans (cont.)



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\$43.99



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GR: G  
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\$43.99

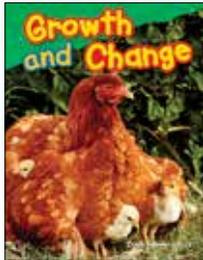


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\$43.99

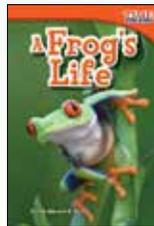
Life Science 6-Packs with lesson plans



**GSE: S2L1**  
Lexile®: 300L  
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\$39.99



**GSE: S2L1**  
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GR: O  
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\$43.99



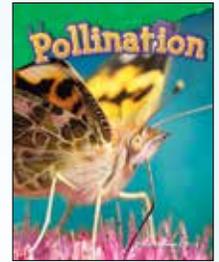
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\$29.99



**GSE: S2L1**  
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\$29.99

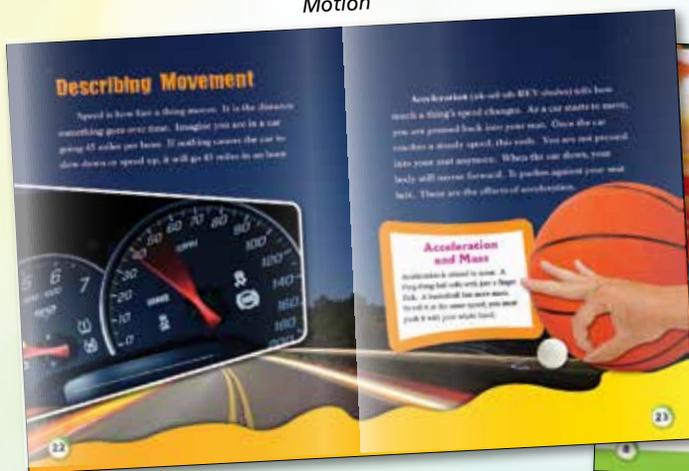


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Item: SCG84670  
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Item: SCG84671  
\$43.99

Motion



Pollination

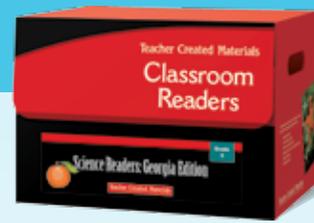


Title	Item	Price
<b>Science Readers: Georgia Edition Grade 2</b>		
Complete Kit (6-Packs of the 19 titles shown, plus lesson plans and digital resources)	SCG84943	\$979.99
Add-On Pack (Single copy of each reader; 19 titles total)	SCG84952	\$130.99

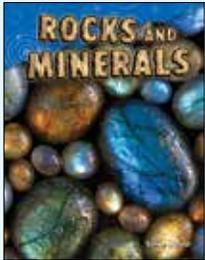
See page 18 for additional resources.

# Grade 3

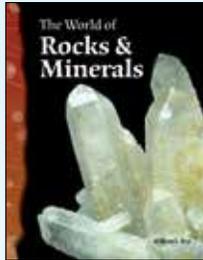
Encourage scientific thinking and support the new standards with these research-based readers! The engaging, leveled readers explore scientific concepts and themes.



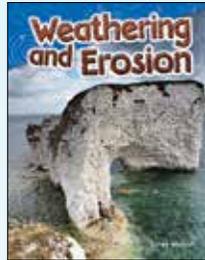
## Earth Science 6-Packs with lesson plans



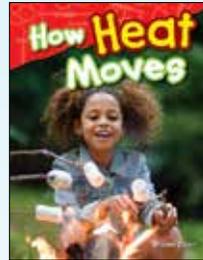
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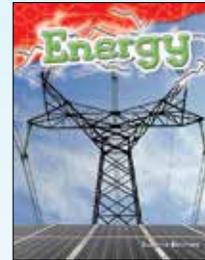
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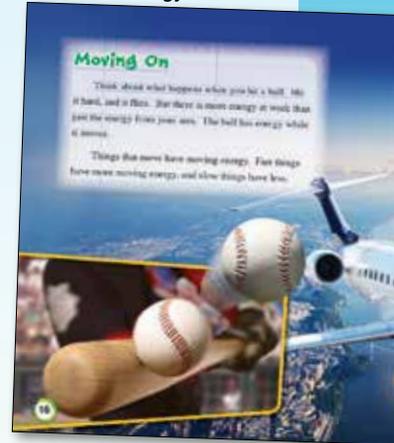
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Lexile®: 330L  
GR: G  
Item: SCG84675  
\$39.99



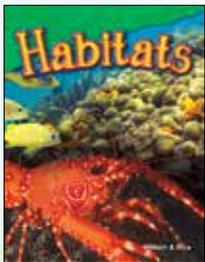
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GR: J  
Item: SCG84676  
\$43.99

## Physical Science 6-Packs with lesson plans

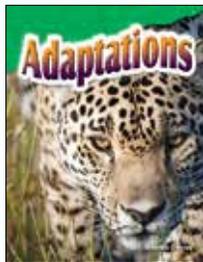
Energy



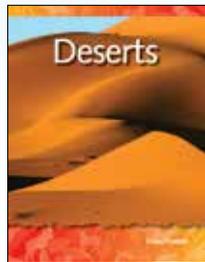
## Life Science 6-Packs with lesson plans



**GSE: S3L1**  
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GR: J  
Item: SCG84677  
\$43.99



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Lexile®: 770L  
GR: S  
Item: SCG84678  
\$43.99



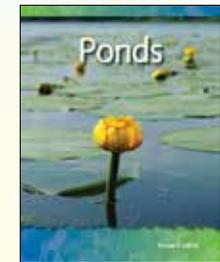
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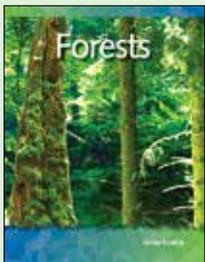
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GR: M  
Item: SCG84680  
\$43.99



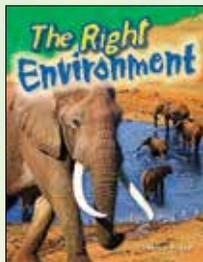
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Lexile®: 580L  
GR: N  
Item: SCG84681  
\$43.99



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GR: N  
Item: SCG84682  
\$43.99



**GSE: S3L1**  
Lexile®: 680L  
GR: P  
Item: SCG84683  
\$43.99



**GSE: S3L2**  
Lexile®: 670L  
GR: P  
Item: SCG84684  
\$43.99



**GSE: S3L2**  
Lexile®: 680L  
GR: S  
Item: SCG84685  
\$50.99



**GSE: S3L2**  
Lexile®: 640L  
GR: O  
Item: SCG84686  
\$43.99



**GSE: S3L2**  
Lexile®: 480L  
GR: K  
Item: SCG84687  
\$39.99

We Recycle

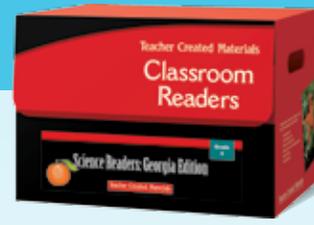


Title	Item	Price
<b>Science Readers: Georgia Edition Grade 3</b>		
Complete Kit (6-Packs of the 16 titles shown, plus lesson plans and digital resources)	SCG84944	\$829.99
Add-On Pack (Single copy of each reader; 16 titles total)	SCG84953	\$117.99

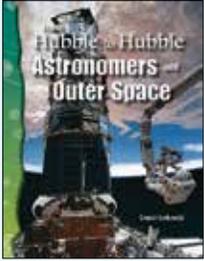
See page 18 for additional resources.

# Grade 4

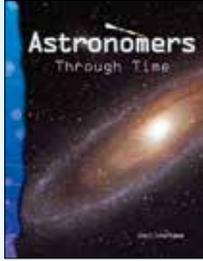
Improve science literacy and knowledge with readers that balance scientific concepts and facts in an engaging format! The leveled readers feature student-friendly content with supporting diagrams or photos to reinforce learning.



## Earth Science 6-Packs with lesson plans



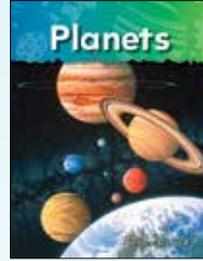
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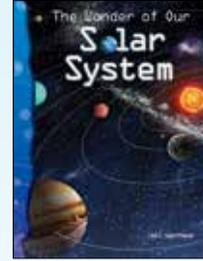
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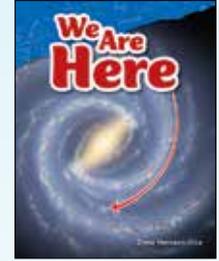
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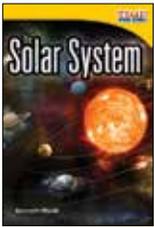
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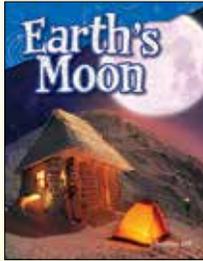
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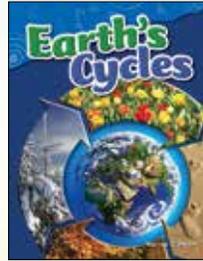
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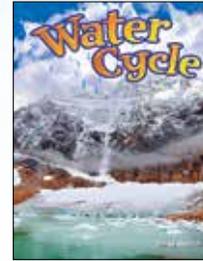
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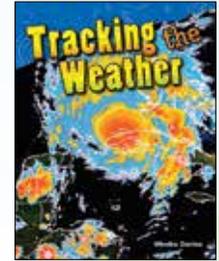
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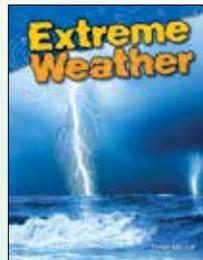
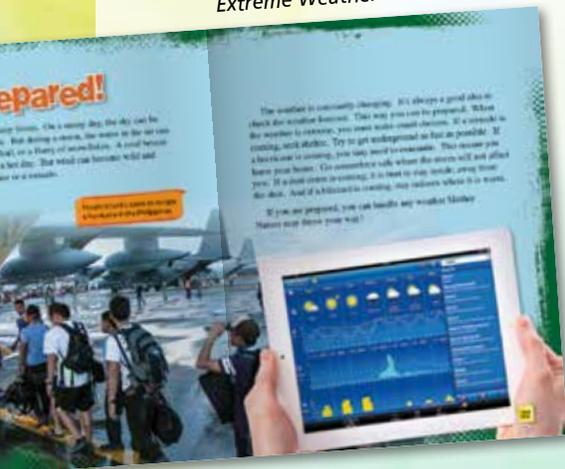


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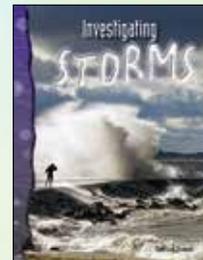
### Extreme Weather



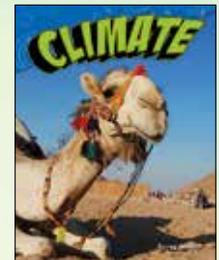
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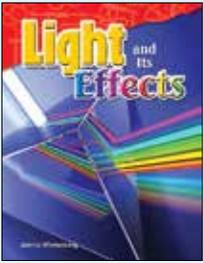


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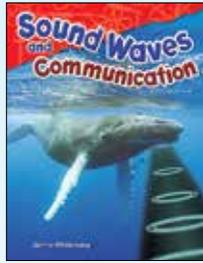


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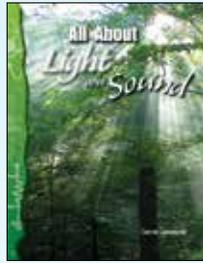
Physical Science 6-Packs with lesson plans



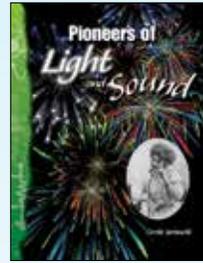
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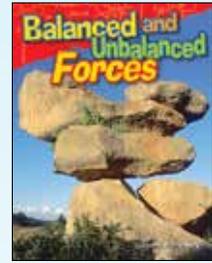
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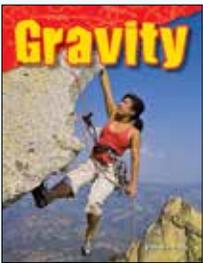


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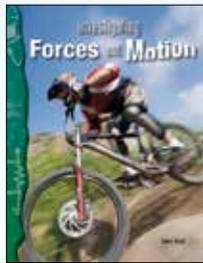


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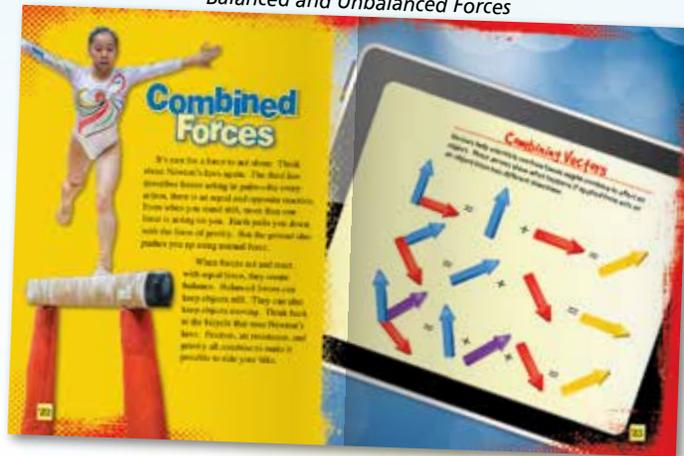
Balanced and Unbalanced Forces



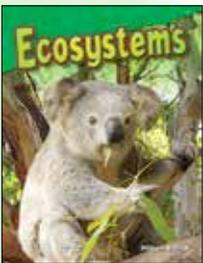
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Life Science 6-Packs with lesson plans



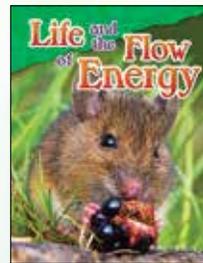
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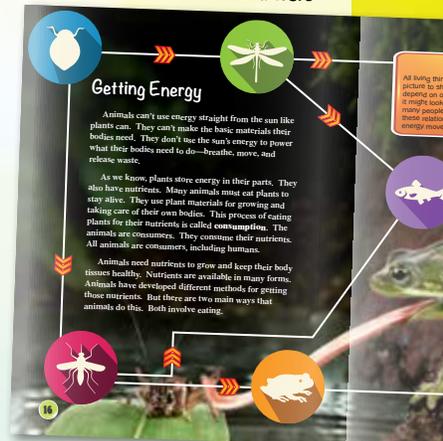


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Producers and Consumers

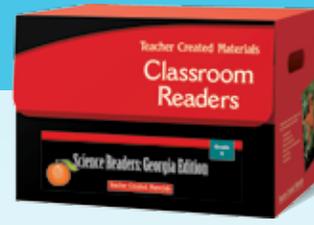


Title	Item	Price
<b>Science Readers: Georgia Edition Grade 4</b>		
Complete Kit (6-Packs of the 27 titles shown, plus lesson plans and digital resources)	SCG84945	\$1,389.99
Add-On Pack (Single copy of each reader; 27 titles total)	SCG84954	\$197.99

See page 18 for additional resources.

# Grade 5

Students will go beyond the surface of critical scientific concepts with these engaging readers! Research-based background information, interactive features, and illustrations enrich the text and bring scientific content to life.



## Earth Science 6-Packs with lesson plans

### Volcanoes

**What Happens During an Eruption?**

All eruptions do not look the same. But they do have things in common.

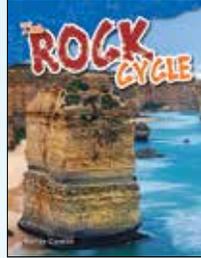
Pressure and heat in the mantle begin an eruption. They push magma into a chamber. Magma is lighter than the crust. So it tries to push above it. And pressure from gases pushes the magma through the crust. When pressure builds, ash, rock, gas, and steam escape. They push through a hole or crack in the Earth. This is an eruption.

Sometimes an eruption comes in a blast. It can be loud like an explosion. Sometimes it comes in a slow ooze. The more pressure, the bigger the blast.

**Active, Dormant, or Extinct?**

If a volcano might erupt any time, it is called active. If we think it will not erupt now but perhaps in the future, it is called dormant (DOR-mant). Dormant means asleep. If we think it will never erupt, it is called extinct.

*Magma builds in the magma chamber and erupts through an opening in the volcano.*



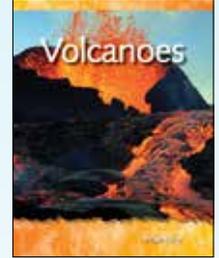
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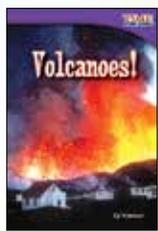
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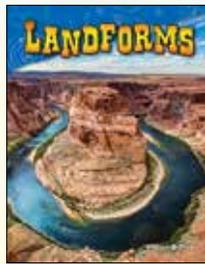
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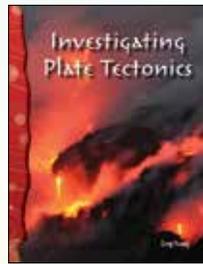
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**GSE: S5E1**  
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Item: SCG84721  
\$43.99

### Investigating Plate Tectonics

#### Evidence of Plate Tectonics

**How Low Can You Go?**  
The deepest hole ever dug into Earth's crust is only 12 kilometers (7.5 miles).

**Another Missing Piece**  
After Wegener's death, scientists noticed mountains and deep trenches underneath the Pacific Ocean. These discoveries were the missing pieces that Wegener was looking for. They helped to explain plate movement. Magma was pushing the plates apart at cracks in Earth's crust. Magma is in motion. The plates of crust rest on the surface of the moving magma. This causes the plates to move, too.

**Plate tectonics**  
has many effects all across the world.

Many geologists did not accept plate tectonics at first. They could see that some continents looked like they could fit together. Most scientists thought this was a coincidence.

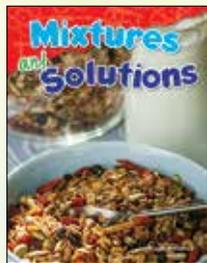
Alfred Wegener needed to explain how the continents moved. He said two forces caused the movement. They are the pull of the moon on Earth and the daily spin of Earth itself. Most geologists thought these forces were too weak to move the giant continents.

Wegener did not live long enough to find the reason for continental movement. He died in 1930.

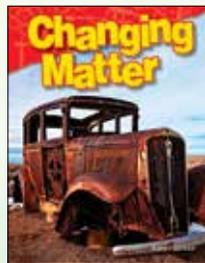
During the 40 years after his death, scientists learned more about Earth's crust. Using special tools, geologists mapped the seafloor. They discovered areas such as the **mid-ocean ridge**. The mid-ocean ridge is more than a 50,000 kilometer (31,000 mile) crack in the bottom of the ocean's floor. It runs from the Arctic Ocean through the Atlantic Ocean. It then circles the globe like the seam of a baseball. Finally, a method to explain how continents move was taking shape!

Alfred Wegener

## Physical Science 6-Packs with lesson plans



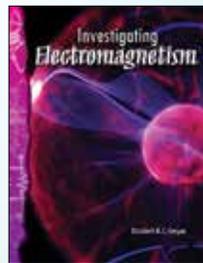
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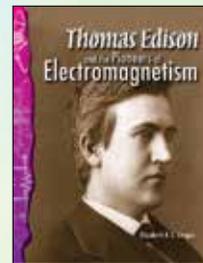
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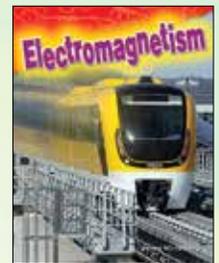
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Plants

### What Is a Plant?

Plants are living things. They grow in almost every environment on the earth. They grow on the tops of mountains. Some grow in the snow. Some grow in the middle of the desert. No matter where they are, all plants need sun, water, air, and food to grow.

Most things we recognize as plants, such as trees and bushes, have **leaves**, **stems**, and **roots**. Each of these parts does a different task that is needed for the plant to grow. All plants use a process called **photosynthesis** (fōt-fōh-SIN-thuh-ahs) to make their food.



Plants grow in this cactuspatch on the earth.

### Plant Clothes

Did you know that most clothes are made out of plants? The most common plant used for clothes in the world today is cotton. Twenty million tons of cotton are grown each year around the world. If you lined up all that cotton end to end, it would stretch from Los Angeles to New York 63 times!

Scientists are thinking up new ways to use plants every day. They have recently figured out how to make clothes out of bamboo and corn. Who knows? One day you may be wearing your vegetables to school!



Gregor Mendel: Genetics Pioneer

### Mendel Studies Garden Peas

Mendel's father bred fruit trees. Mendel helped his father when he was young. This interest started with him. He wasn't allowed to teach biology. But he could do research.

It was not possible for Mendel to study fruit trees. So he studied other plants. He decided to research the common pea. He grew them in his garden. They were easy to raise. They had a short breeding time.

**Breeding** is another word for reproduction. Best of all, the peas could be cross-pollinated. That means that one variety could be bred with another.

Mendel bought seeds from people who lived in the area. Peas were a popular vegetable at that time. Many types were available. Mendel is said to have started with 34 different varieties of pea plants. Over time, he grew and tested at least 28,000 pea plants in his gardens.

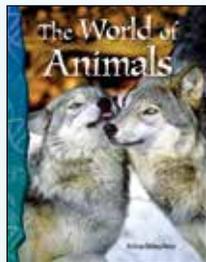


**Interesting To See**  
An illustration from the album *Henry (1876-1881)* shows some of the characteristics of pea plants that Mendel tested.

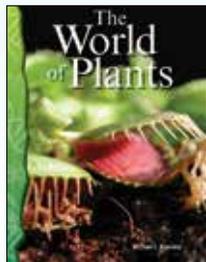
### Eugenics

Many people were inspired by Mendel's findings. They thought it would be easy to change people's traits. Many countries wanted to improve the majority race that lived in them. They thought they could breed out traits they didn't like. This is called **eugenics** (yoo-EE-ahk). Nazi Germany killed more than 200,000 people with disabilities. Some of these people were in mental institutions. Others had birth defects. In the end, it didn't work. Eugenics is very complicated. It cannot be controlled so easily.

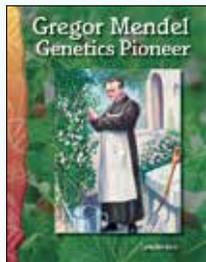
Life Science 6-Packs with lesson plans



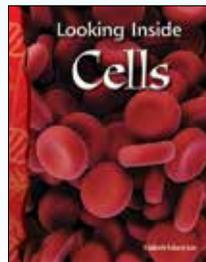
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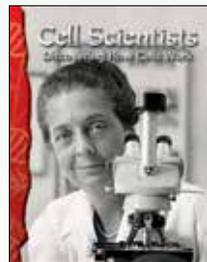
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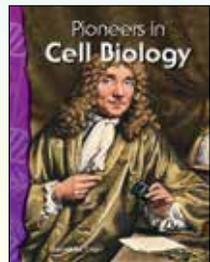
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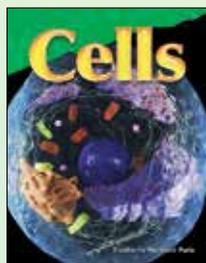
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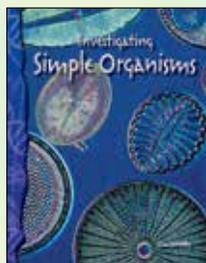
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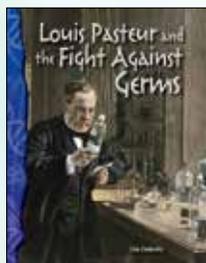
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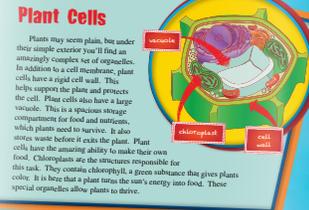


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Cells

### Plant Cells

Plants they seem plain, but under their simple exterior you'll find an amazingly complex set of organelles. In addition to a cell membrane, plant cells have a rigid cell wall. This helps support the plant and protect the cell. Plant cells also have a large vacuole. This is a spacious storage compartment for food and nutrients, which plants need to survive. It also stores water before it exits the plant. Plant cells have the amazing ability to make their own food. Chloroplasts are the structures responsible for this task. They contain chlorophyll, a green substance that gives plants color. It is here that a plant turns the sun's energy into food. These special organelles allow plants to thrive.



### Crunch!

Have you noticed that when you bite into some types of fruit or vegetables they make a loud "crunching" sound? This is the sound of millions of cell walls breaking!



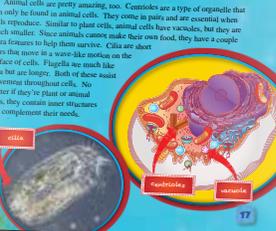
### Going Green

Chlorophyll is what allows plants to convert sunlight into food. But there is one very special sea slug that can use chlorophyll, too. After eating algae, it keeps the algae's chloroplasts and uses them in its own body.



### Animal Cells

Animal cells are pretty amazing, too. Centrioles are a type of organelle that can only be found in animal cells. They come in pairs and are essential when cells reproduce. Similar to plant cells, animal cells have vacuoles, but they are much smaller. Since animals cannot make their own food, they have a couple extra features to help them survive. Cells are short hairs that move in a wave-like motion on the surface of cells. Flagella are much like cilia but are longer. Both of these assist movement throughout cells. No matter if they're plant or animal cells, they contain laser structures that compartment their needs.

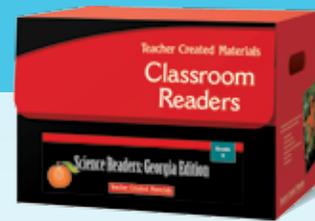


Title	Item	Price
<b>Science Readers: Georgia Edition Grade 5 Complete Kit</b> (6-Packs of the 22 titles shown, plus lesson plans and digital resources)	SCG84946	\$1,129.99
<b>Add-On Pack</b> (Single copy of each reader; 22 titles total)	SCG84955	\$159.99

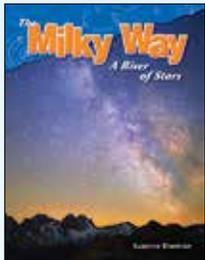
See page 19 for additional resources.

# Grade 6

Build students' scientific knowledge and skills with leveled informational text and hands-on science activities! These engaging readers and lesson plans cover important strands like earth and physical science.



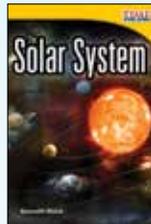
## Earth Science 6-Packs with lesson plans



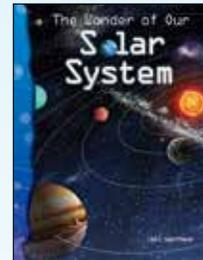
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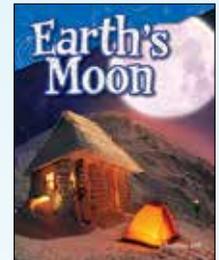
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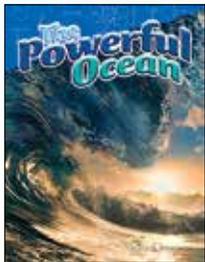
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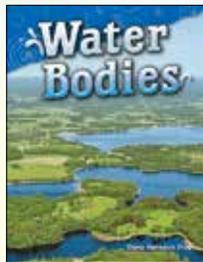
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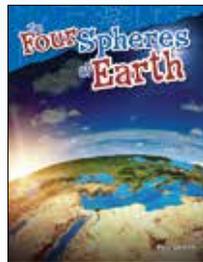
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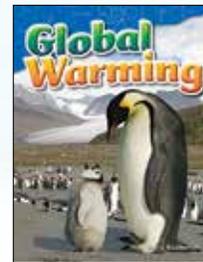
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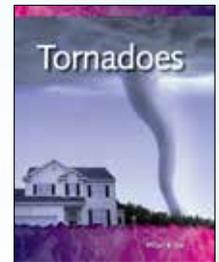
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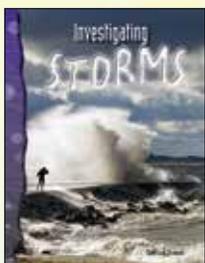
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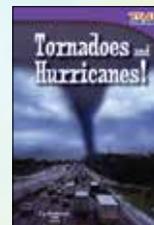
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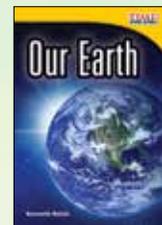
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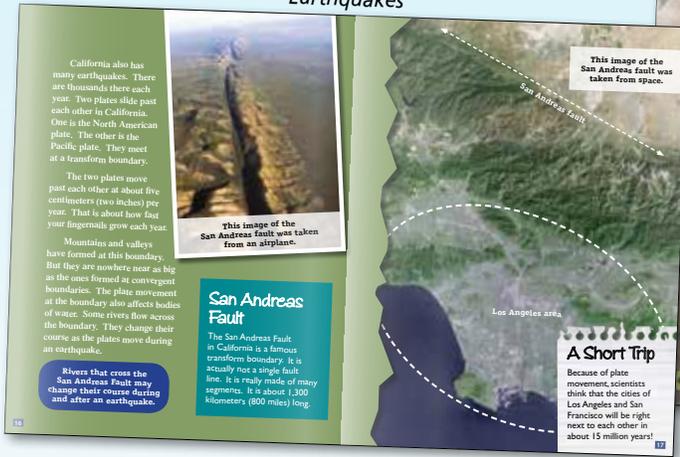


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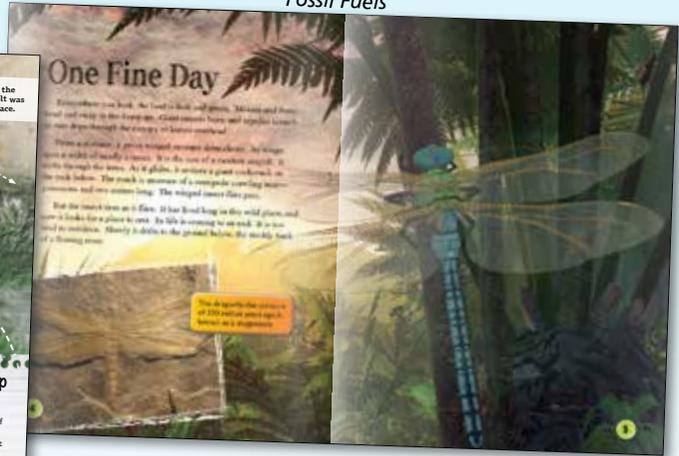


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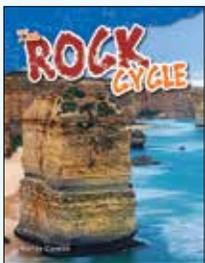
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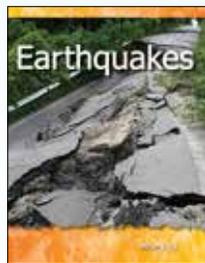
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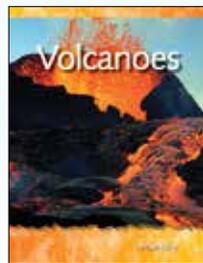
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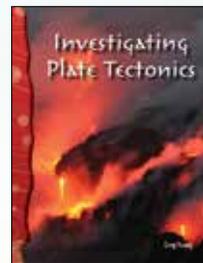
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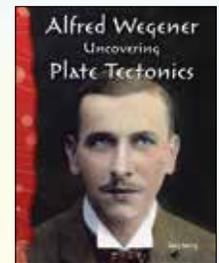
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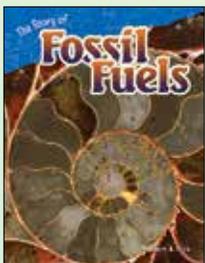
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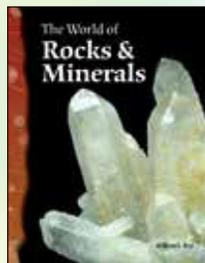
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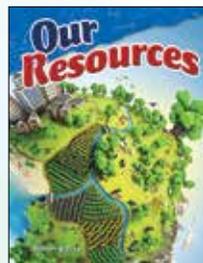
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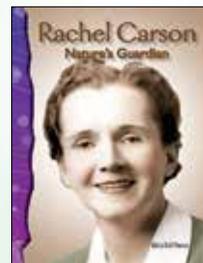
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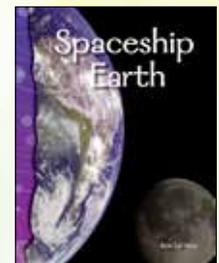
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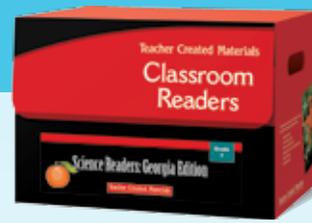
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See page 19 for additional resources.

# Grade 7

Informational text and captivating photos bring middle-school science standards to life! 5E-modeled lessons and interactive lab activities are included to balance scientific facts and concepts.



## The World of Genetics

**Lab: Make Your Own Light Microscope**

Make this simple light microscope to see how early biologists examined their specimens.

**Materials**

- two magnifying glasses
- a newspaper article
- a photograph
- a paper and pen to record your results

**Procedure**

- 1 Hold one magnifying glass just above the surface of the newspaper article. Then, hold it above the photo. The print and image should appear larger.
- 2 Move the magnifying glass higher. See how the print and photo change. They should become blurred as you move the magnifying glass higher.
- 3 Return the magnifying glass to the original position. Place it just above the newspaper article and photo.
- 4 Get the second magnifying glass and your eyes.
- 5 Move the second magnifying glass up and down. Get the print and photo in clear focus. How do they look?
- 6 Describe what happens. Do they appear larger or smaller than they did when you used a single magnifying glass?
- 7 Record your results.

## Life and Non-Life Ecosystems

**Earth, Our Home**

Earth, it's home. But what is it about this place called Earth that makes it so remarkable to us here on it?

Whether you live in a big city, a quiet rural community, or somewhere in between, you can see that there is a lot to like on Earth. There is a lot of life and growth here. There are mountains and oceans, fields and cities, forests and rivers. There is a lot of life and growth here. There is a lot of life and growth here. There is a lot of life and growth here.

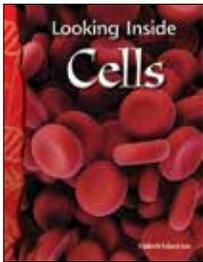
**Life Out There**

Many scientists believe that it is almost certain that there are other planets in the universe that have the right conditions for life. They think that there are other planets out there that have the right conditions for life. They think that there are other planets out there that have the right conditions for life.

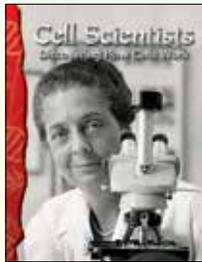
**Searching for Mars**

In 2012, NASA sent the Mars rover Curiosity to Mars. The rover was on its way to Mars when it found some signs of life. It found some signs of life. It found some signs of life. It found some signs of life.

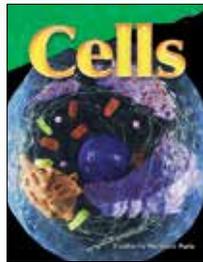
## Life Science 6-Packs with lesson plans



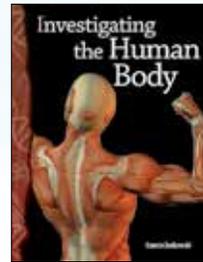
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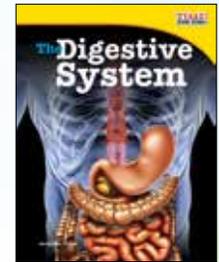
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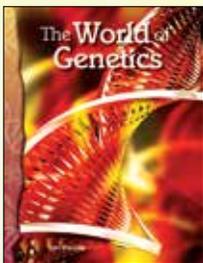
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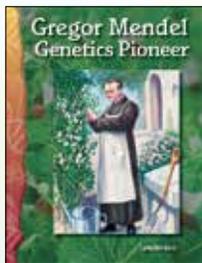
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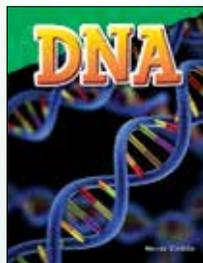
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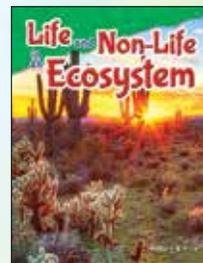
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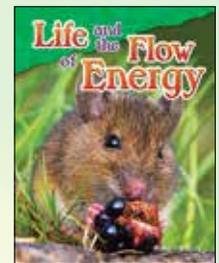
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Cells

### Cell by Cell

Have you ever built something with plastic building blocks? You can make houses, people or airplanes just by using bricks in the right shapes. The more types of bricks you have, the more types of things you can build. If you have bricks with wheels attached, you can make a toy car that rolls. If you have bricks of different colors and sizes, you can make all sorts of fun patterns as you build.

Look around at all the living things near you. Plants and animals aren't made of building blocks. But every living thing is made of tiny cells. Some organisms have only one cell. They are **unicellular**. But almost every living thing that you can see is made up of many, many tiny cells. Organisms made of more than one cell are **multicellular**. Each of these cells has its own job to do. Cell by cell, they work together to do everything an organism needs to stay alive. That's why biologists often call them "the building blocks of life."

**Billions**  
Unicellular, or single-celled, organisms have been on Earth for approximately 2.8 billion years. Yes, billion with a B!

The number of cells on Earth is unmeasurable. There are more cells in one mouse than there are animals on Earth!

Traits of Survival

### Soooo BIG!

Little kids like to play the So Big game, making themselves as big as they can be. For many animals, So Big is an adaptation that helps them survive. When faced with a threat, their instincts kick in. They make themselves seem larger than they are.

One of the weirdest examples of this is the puffer fish. When it gets scared, it takes in air or water in a special sac in its body. Then, it blows up like a balloon. It only takes a few seconds to do this! It can let out the air and water pretty quickly, too, and go back to its normal size.

The frilled lizard and cobra use size as a warning, too. The frilled lizard flares its frill, and the cobra flares its hood. The flare is its way of saying, "I'm warning you. Back off!"

**How to Scare a Bear**  
If you are out in the woods and get a bear, keep your distance. But if you can't avoid the bear, use what you know about adaptations to help you:  
1. Make a lot of noise.  
2. Stand with your friends and family to make your group look more threatening.  
3. Spread your arms over your head to appear as large as possible.

**Definitely Not Power!**  
Does one catch and swing, right? Not the frilled lizard! The male uses its frills to fight other males for a mate. If one does knock down the other, its frills will finish the job.

**A Frilled Lizard** uses its frill.

**A Puffer Fish** uses its air.

Inside Ecosystems and Biomes

### Taiga

Just south of the tundra is the largest land biome. It is called taiga. Winters are long and cold. Summers are short and cool.

**Evergreen** trees can grow in the taiga. They do not lose their leaves in the winter. Animals that need trees can live in taiga, too. Birds nest in the trees. Deer hide in the shade.

The taiga covers much of Canada, Russia, and China. Grizzly bears, eagles, deer, and bats make their homes in these pine forests. This environment also has lakes, bogs, and rivers.

**Protecting the Original Taiga**  
Most of the Russian Federation is covered by taiga. In fact, the word *taiga* comes from Russian. It means *taiga forest*. Russia's taiga is home to arctic foxes, brown bears, moose, deer, and some leopards. Unfortunately, this unique region faces serious threats. Poachers hunt the animals illegally. Loggers also break the law by cutting down trees. The climate is changing because of nearby cities. The Russians don't want to lose their taiga. They have burned almost four million hectares of taiga into protected land.

**Black Bear**  
Some black bears live in the taiga. They eat salmon, fruits, and rodents. They also eat berries, nuts, and even mice! Because it's so cold in the taiga, bears have to eat anything they can to keep warm. Black bears are also big and strong. They are so big that the other animal hasn't adult bears. This makes them apex predators. Such a predator would appear at the top of an energy pyramid.

Pioneering Ecologists

Leopold's work helped create two laws. The first was passed in 1909. It is the National Environmental Policy Act. It states that the government must first think about the environmental effects of any land use. This means that a mall cannot be built without a study to find out how to not harm the ecosystem.

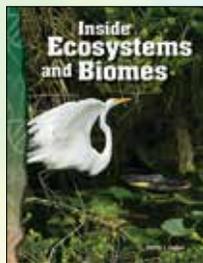
The second law is the Endangered Species Act of 1973. It protects plants, animals, and their ecosystems from becoming extinct.

**DDT**  
Rachel Carson was also concerned about animals. She wondered how chemicals affected them. She studied DDT. It was sprayed to kill bugs. She found that DDT killed much more than bugs. The birds that ate the bugs were dying, too. Carson said that if people didn't stop using DDT, there would be no birds left. Her 1962 book, *Silent Spring*, made U.S. leaders aware that DDT was dangerous. They banned DDT so no one could use it.

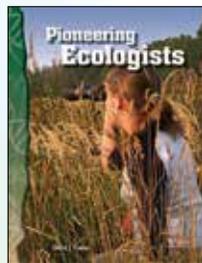
**The dove bird** is now extinct. Today's laws may have helped it to avoid extinction.

When crops were sprayed with DDT, many people on the phone. It is found inside the tin in one block. When the tin was used, it made people sick.

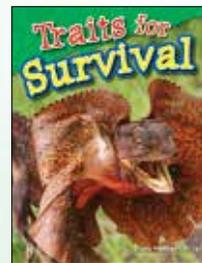
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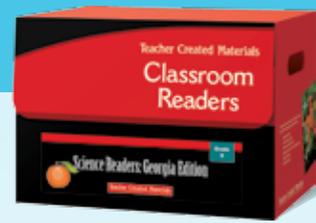
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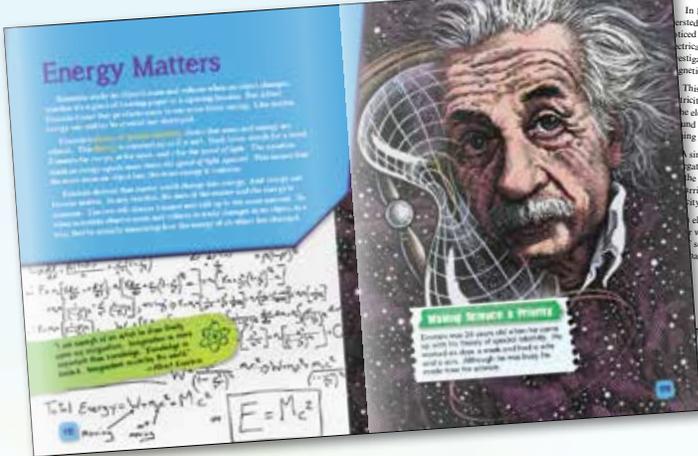
See page 19 for additional resources.

# Grade 8

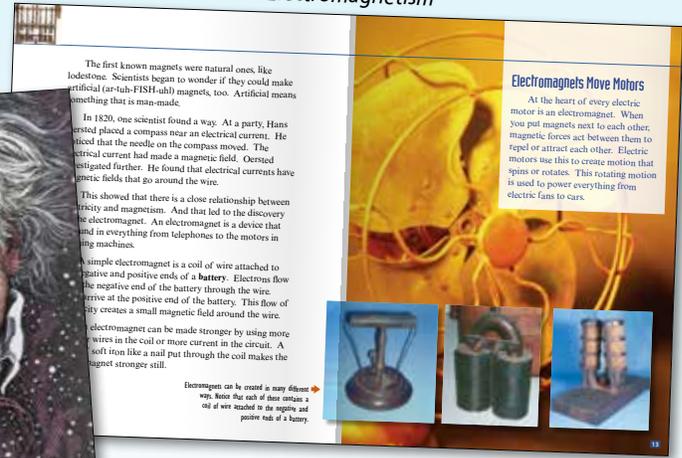
Align to new Georgia science standards, teach STEM themes, and develop students' critical thinking with these engaging readers! Hands-on science experiments and in-depth lesson plans are included to help students grasp critical science concepts.



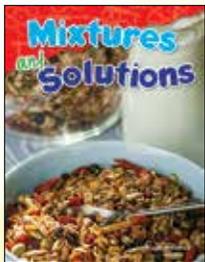
## Conservation of Mass



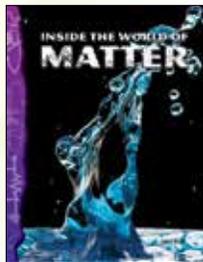
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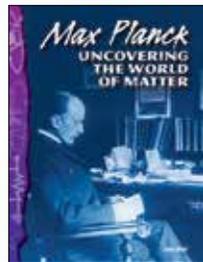
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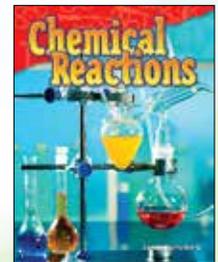
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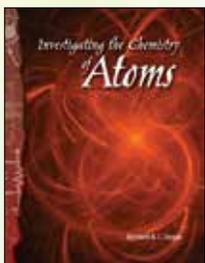
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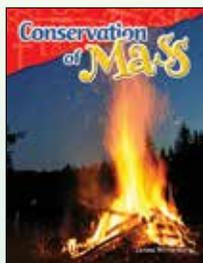
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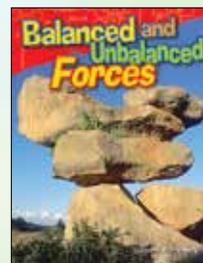
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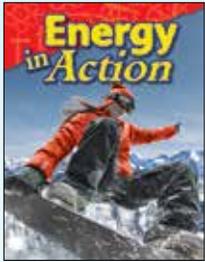


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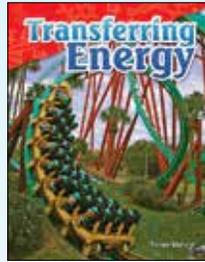


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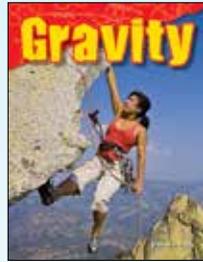
## Physical Science 6-Packs with lesson plans (cont.)



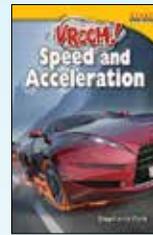
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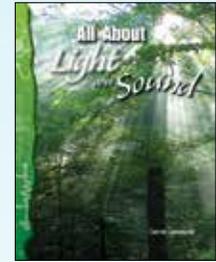
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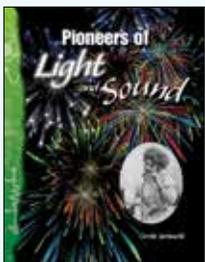
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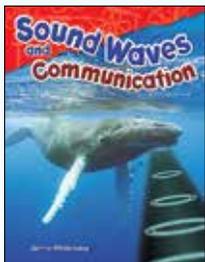
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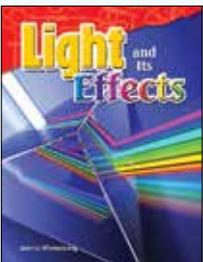
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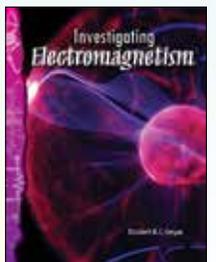
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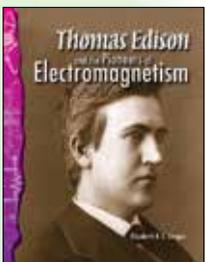
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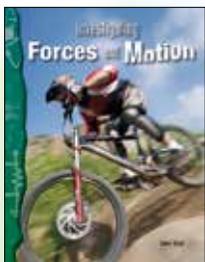
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Item: SCG84795  
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**GSE: S8P4, S8P5**  
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Item: SCG84796  
\$43.99



**GSE: S8P5**  
Lexile®: 810L  
GR: T  
Item: SCG84797  
\$43.99

### Investigating Forces and Motion

**Lab: Measuring Gravitational Field Strength**

**Materials**

- stopwatch
- a piece of string 1.25 meters long
- 50 grams of play clay (plasticine)
- a laboratory stand and clamp, or sticky tape and a table or door frame
- sheet of paper
- marker

**Procedure**

- 1 Cut a piece of string to 1.25 meters.
- 2 Make a pendulum by molding a lump of plasticine onto the end of the piece of string.
- 3 Measure 1 meter up the string from the center of the plasticine blob. Put a mark on the string. Tie it to the stand and clamp it at the 1 meter mark. If you are doing this at home and don't have a stand and clamp, then you can tape the pendulum to a table edge or door frame.
- 4 Hold the pendulum blob to one side. Get ready with the stopwatch.
- 5 Let go of the pendulum and start the stopwatch.
- 6 Count 10 full swings (stopping point and back) of your pendulum. Then, stop the stopwatch when it arrives back at the start for the tenth time.
- 7 Record the time the pendulum took to make 10 swings.
- 8 Shorten your pendulum to .5 meters and repeat the experiment.
- 9 Figure out the time in seconds for one swing by dividing the time for 10 swings by 10. This is called the period of the pendulum.
- 10 Record your results in a table like the one shown here.
- 11 With the period you calculated (the time for one swing of the pendulum) in Step 9, find the force of gravity. You will use this formula:  $gravity = (9 \times length) / (swing\ time \times swing\ time)$

Calculate the gravity for each of the two pendulums you made. It's tricky, but you can do it! How do the values for gravity compare? What effect does changing the length of the pendulum have on the period?

Pendulum Length	Time for 10 Swings	Time for 1 Swing
1.0 m		
0.5 m		

Title	Item	Price
<b>Science Readers: Georgia Edition Grade 8 Complete Kit</b> (6-Packs of the 22 titles shown, plus lesson plans and digital resources)	SCG84949	\$1,129.99
<b>Add-On Pack</b> (Single copy of each reader; 22 titles total)	SCG84958	\$164.99

See page 19 for additional resources.

# Additional Resources

Enrich your science curriculum with additional resources that align to the NEW Georgia Standards of Excellence! Choose from a variety of complete kits with professionally developed lesson plans and engaging student activities that encourage scientific thinking.



## ▲ Teaching through Text Sets

Each kit includes:

- ▶ **Read Aloud Introductory Text** to capture student attention and activate prior knowledge
- ▶ **Anchor Text** that builds content knowledge related to the theme (24 copies)
- ▶ **3 Supporting Texts** to guide students through close readings (6 copies each)
- ▶ **Extension Text** to help extend understanding through performance (6 copies)
- ▶ **Teacher's Guide** with easy-to-use lessons that support reading, writing, and content standards
- ▶ **Digital resources** including an Interactiv-eBook to engage students
- ▶ **Assessments** including a culminating project-based assessment

Title	Item	Price
<b>Grade 1</b>		
Teaching through Text Sets: Light and Sound	SCG23508	\$399.99
Teaching through Text Sets: Animals	SCG23507	\$399.99
Teaching through Text Sets: Climate and Weather	SCG23281	\$399.99
<b>Grade 2</b>		
Teaching through Text Sets: Forces and Motion	SCG23280	\$399.99
<b>Grade 3</b>		
Teaching through Text Sets: Adaptation	SCG23279	\$399.99
Teaching through Text Sets: Movement of Energy	SCG23283	\$399.99
Discovering Science through Inquiry: Rocks and Minerals	SCG12369	\$249.99
Discovering Science through Inquiry: Energy	SCG13651	\$249.99
<b>Grade 4</b>		
Teaching through Text Sets: Energy of Ecosystems	SCG23285	\$399.99
Discovering Science through Inquiry: The Solar System	SCG12366	\$249.99
Discovering Science through Inquiry: Earth Systems and Cycles	SCG10798	\$249.99
Discovering Science through Inquiry: Light and Sound	SCG12368	\$249.99
Discovering Science through Inquiry: Biomes and Ecosystems	SCG10478	\$249.99

## ▼ Science Readers

### Each kit includes:

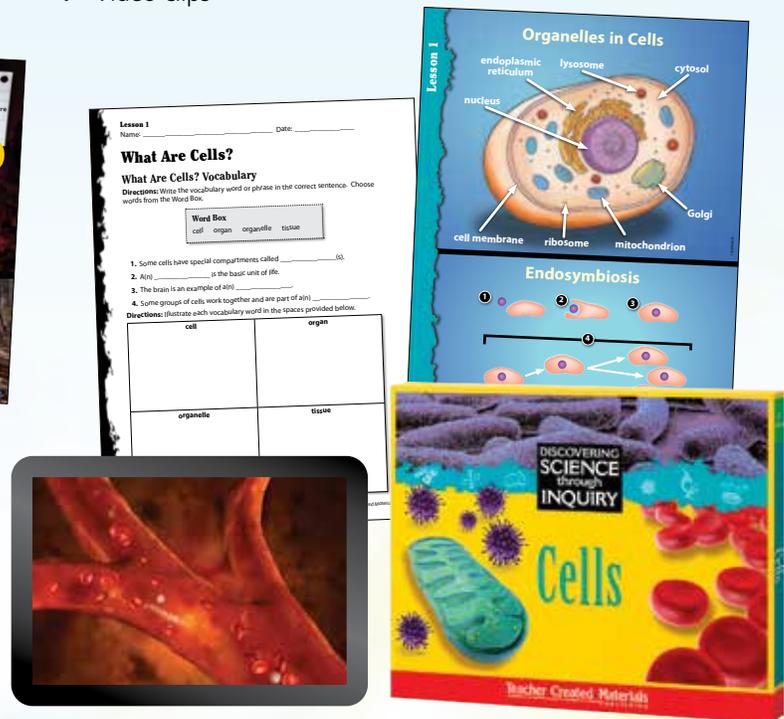
- ▶ **Books**—6 titles, 6 copies each, 32 pages per book in print and digital formats
- ▶ **Teacher's Guide**
- ▶ **Data-Analysis activities**
- ▶ **Audio** recordings of books
- ▶ **Digital resources** including content-related video clips, books in digital format, and student reproducibles



## ▼ Discovering Science through Inquiry

### Each kit includes:

- ▶ **16 Inquiry Cards** in print and digital formats
- ▶ **Teacher's Guide**
- ▶ **Inquiry Handbook**  
(Each kit includes a single copy; additional copies can be ordered.)
- ▶ **Digital resources**
  - ✓ Digital versions of activities and additional teacher resources, including images and assessment tools
  - ✓ Leveled background pages for students
  - ✓ Video clips



Title	Item	Price
<b>Grade 5</b>		
Teaching through Text Sets: Weathering and Erosion	SCG23284	\$399.99
Teaching through Text Sets: Sustainability	SCG23287	\$399.99
Discovering Science through Inquiry: Cells	SCG12367	\$249.99
<b>Grade 6</b>		
Science Readers: Forces in Nature	SCG11301	\$399.99
Discovering Science through Inquiry: Forces in Nature	SCG10476	\$249.99
<b>Grade 7</b>		
Science Readers: Biomes and Ecosystems	SCG11302	\$399.99
Discovering Science through Inquiry: Biomes and Ecosystems	SCG10478	\$249.99
Discovering Science through Inquiry: Living Organisms	SCG10800	\$249.99
<b>Grade 8</b>		
Science Readers: Basics of Matter	SCG12413	\$399.99
Science Readers: Forces and Motion	SCG11300	\$399.99
Discovering Science through Inquiry: Electricity and Magnetism	SCG12365	\$249.99
Discovering Science through Inquiry: Energy	SCG13651	\$249.99

