

# Science Readers

## Georgia Edition

Grades K-8

- ✓ Aligned to the **Georgia Standards of Excellence**
- ✓ High-interest content to inspire students
- ✓ Easy to implement



Contact us for custom quotes and to order:

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

**South Georgia:**  
Paula Cobb  
Cell: (229) 254-9312  
pcobb@tcmpub.com

Ask about our  
**NEW Smithsonian  
STEAM Readers for  
Grades 3-5**

# Science Readers: Georgia Edition

## Grades K-8

These convenient and comprehensive curriculum resources are aligned to the **Georgia Standards of Excellence (GSE) for Science**. Each grade-level kit is developed by educators to teach critical science concepts and themes, with appealing readers that inspire students as they learn.

### Each complete grade-level kit includes:

#### High-Interest Leveled Readers\*

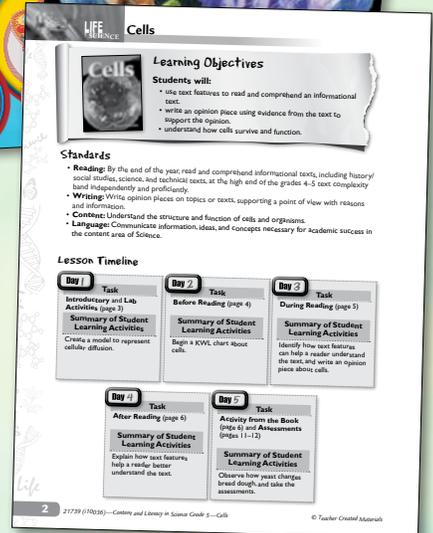
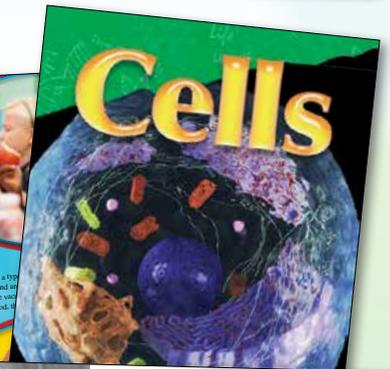
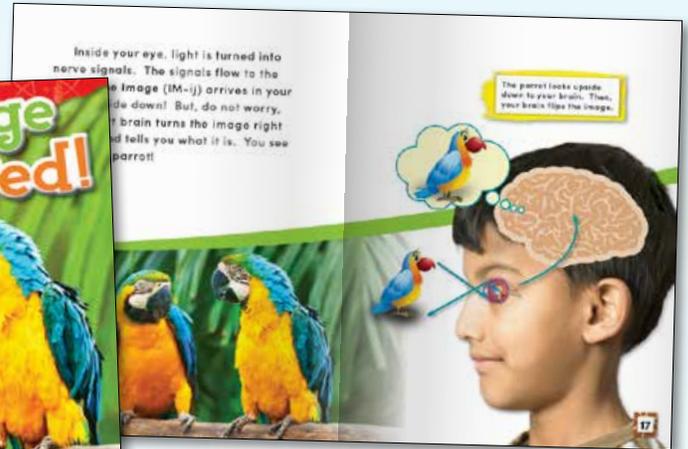
- 6 copies of each in print and digital formats
- A variety of text structures
- Academic vocabulary for science
- Hands-on science activities

#### Research-Based Lesson Plans

- Science concepts
- Reading and writing skills

#### Digital Resources

- eBooks
- Lesson plans
- Audio recordings



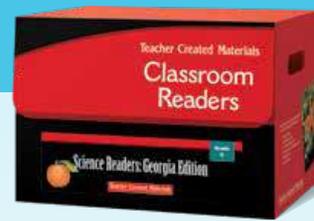
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\*Add-On Packs and 6-Packs also available. See pages 3-17.  
For additional resources that support the Georgia Science Standards, see pages 18-19.

# 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



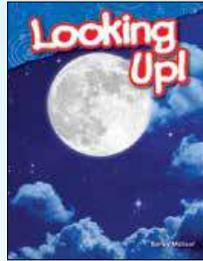
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Lexile®: 350L  
GR: G  
Item: 84628  
\$43.99



GSE: SKE1  
Lexile®: 380L  
GR: F  
Item: 84629  
\$43.99



GSE: SKE1  
Lexile®: 20L  
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Item: 84630  
\$43.99

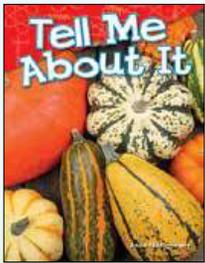


GSE: SKE1  
Lexile®: 320L  
GR: F  
Item: 84631  
\$43.99

Looking Up!



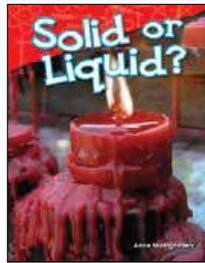
## Physical Science 6-Packs with lesson plans



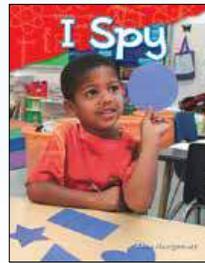
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Lexile®: BR  
GR: A  
Item: 84632  
\$43.99



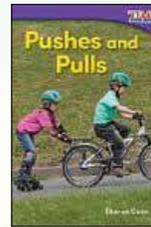
GSE: SKP1  
Lexile®: BR  
GR: A  
Item: 84633  
\$43.99



GSE: SKP1  
Lexile®: BR  
GR: A  
Item: 84634  
\$43.99



GSE: SKP1  
Lexile®: BR  
GR: B  
Item: 84635  
\$43.99

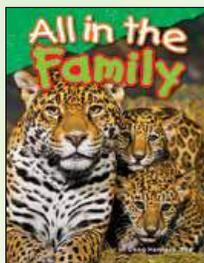


GSE: SKP2  
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GR: A  
Item: 84636  
\$29.99

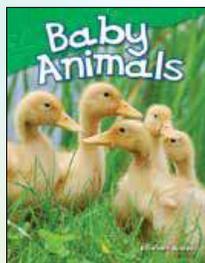
## Life Science 6-Packs with lesson plans



GSE: SKL1  
Lexile®: BR  
GR: A  
Item: 84637  
\$43.99



GSE: SKL2  
Lexile®: 420L  
GR: I  
Item: 84638  
\$43.99

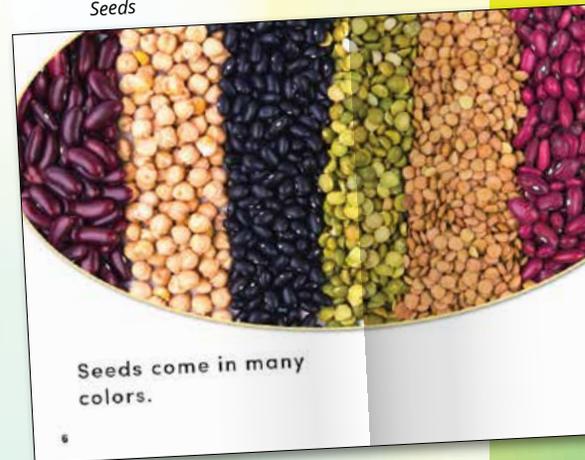


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Seeds

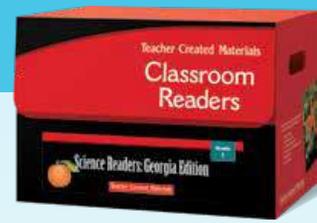


## Science Readers: Georgia Edition Grade K

Title	Item	Price
Complete Kit (6-Packs of the 13 titles shown, plus lesson plans and digital resources)	84941	\$623.99
Add-On Pack (Single copy of each reader; 13 titles total)	84950	\$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



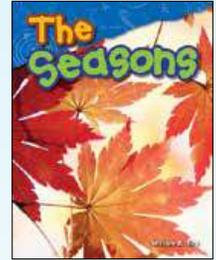
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Lexile®: BR  
GR: A  
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\$43.99



GSE: S1E1  
Lexile®: BR  
GR: A  
Item: 84642  
\$43.99



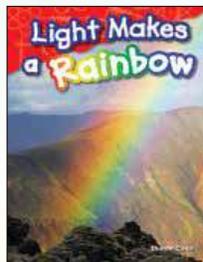
GSE: S1E1  
Lexile®: BR  
GR: D  
Item: 84643  
\$29.99



GSE: S1E1  
Lexile®: 320L  
GR: F  
Item: 84644  
\$43.99

## Physical Science 6-Packs with lesson plans

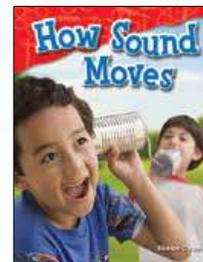
What Do Living Things Need?



GSE: S1P1  
Lexile®: 380L  
GR: H  
Item: 84645  
\$43.99



GSE: S1P1  
Lexile®: 210L  
GR: D  
Item: 84646  
\$43.99



GSE: S1P1  
Lexile®: 560L  
GR: M  
Item: 84647  
\$43.99

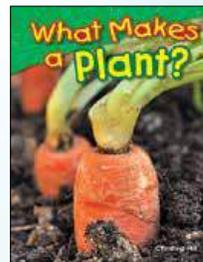


GSE: S1P1  
Lexile®: 470L  
GR: K  
Item: 84648  
\$43.99

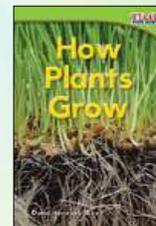
## Life Science 6-Packs with lesson plans



GSE: S1L1  
Lexile®: 400L  
GR: H  
Item: 84649  
\$43.99



GSE: S1L1  
Lexile®: 490L  
GR: K  
Item: 84650  
\$43.99



GSE: S1L1  
Lexile®: 110L  
GR: E  
Item: 84651  
\$29.99



GSE: S1L1  
Lexile®: 40L  
GR: B  
Item: 84652  
\$43.99

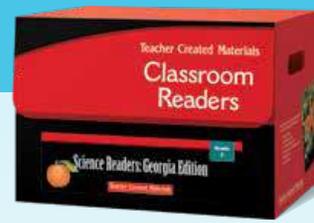
## Science Readers: Georgia Edition Grade 1

See page 18 for additional resources.

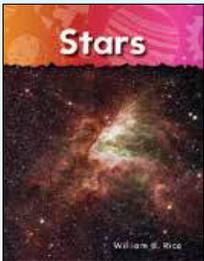
Title	Item#	Price
Complete Kit (6-Packs of the 12 titles shown, plus lesson plans and digital resources)	84942	\$619.99
Add-On Pack (Single copy of each reader; 12 titles total)	84951	\$76.99

# 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

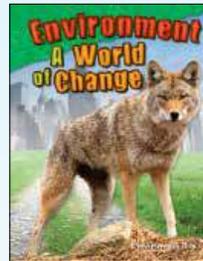


GSE: S2E1  
Lexile®: 450L  
GR: J  
Item: 84653  
\$43.99

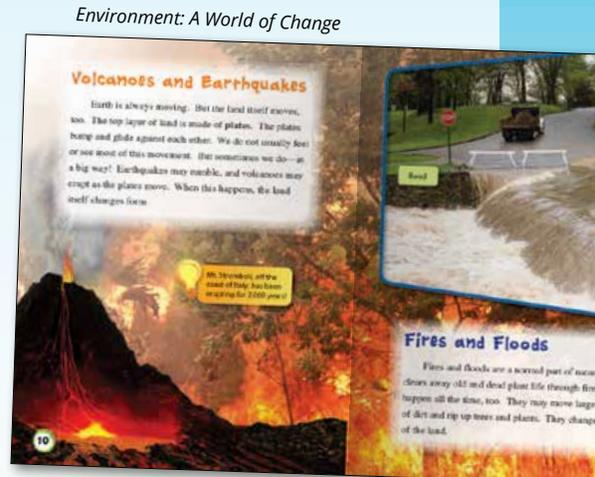


GSE: S2E2  
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GR: K  
Item: 84654  
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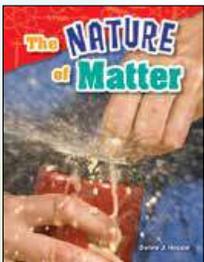
## Earth & Life Science 6-Pack with lesson plan



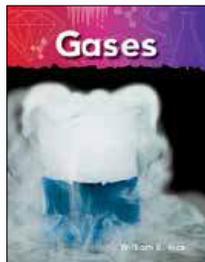
GSE: S2E3, S2L1  
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GR: M  
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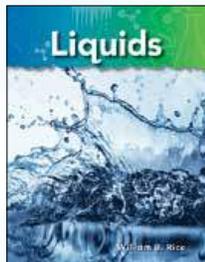
## Physical Science 6-Packs with lesson plans



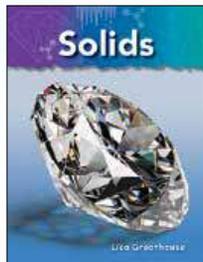
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Lexile®: 530L  
GR: M  
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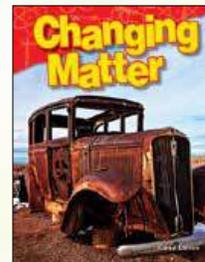
GSE: S2P1  
Lexile®: 420L  
GR: I  
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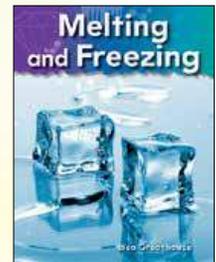
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Lexile®: 470L  
GR: K  
Item: 84658  
\$43.99



GSE: S2P1  
Lexile®: 480L  
GR: K  
Item: 84659  
\$43.99



GSE: S2P1  
Lexile®: 630L  
GR: O  
Item: 84660  
\$48.99

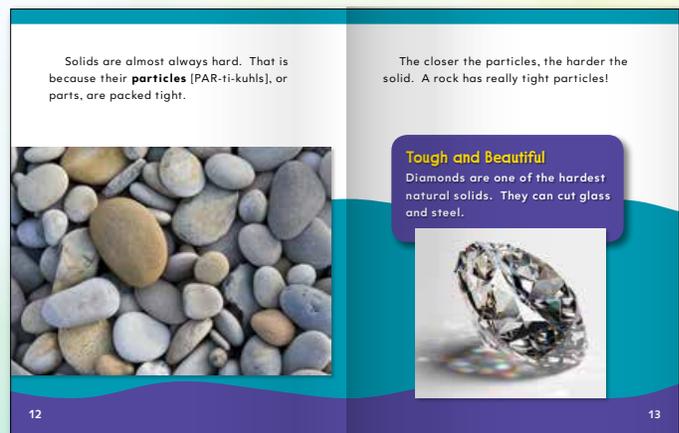


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GR: K  
Item: 84661  
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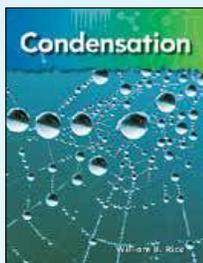
Earth and Moon



Solids



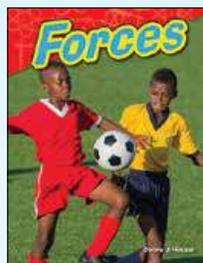
## Physical Science 6-Packs with lesson plans (cont.)



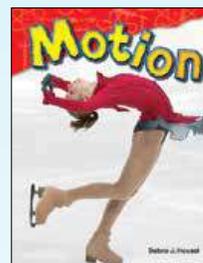
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\$43.99



GSE: S2P1  
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GR: G  
Item: 84663  
\$43.99

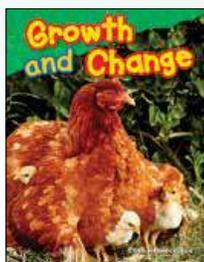


GSE: S2P2  
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GR: M  
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GSE: S2P2  
Lexile®: 570L  
GR: M  
Item: 84665  
\$48.99

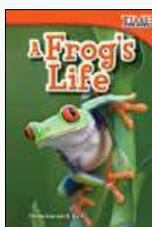
## Life Science 6-Packs with lesson plans



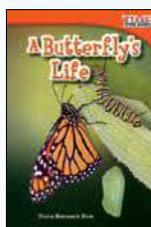
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GR: F  
Item: 84666  
\$43.99



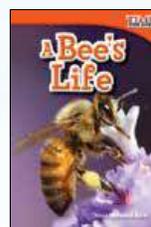
GSE: S2L1  
Lexile®: 630L  
GR: O  
Item: 84667  
\$48.99



GSE: S2L1  
Lexile®: 180L  
GR: E  
Item: 84668  
\$29.99



GSE: S2L1  
Lexile®: 190L  
GR: E  
Item: 84669  
\$29.99



GSE: S2L1  
Lexile®: 260L  
GR: F  
Item: 84670  
\$29.99



GSE: S2L1  
Lexile®: 450L  
GR: J  
Item: 84671  
\$48.99



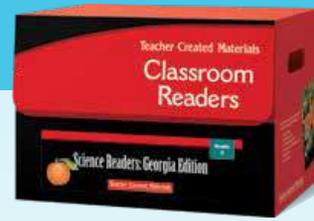
## Science Readers: Georgia Edition Grade 2

See page 18 for additional resources.

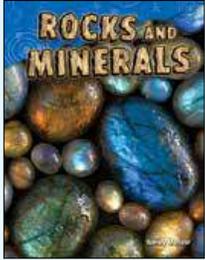
Title	Item#	Price
Complete Kit (6-Packs of the 19 titles shown, plus lesson plans and digital resources)	84943	\$1,027.99
Add-On Pack (Single copy of each reader; 19 titles total)	84952	\$130.99

# Grade 3

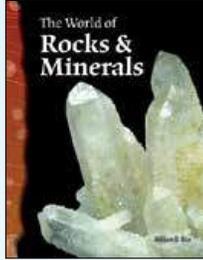
Encourage scientific thinking and support the new standards with these research-based readers. The engaging, leveled readers explore scientific concepts and themes.



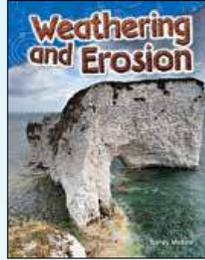
## Earth Science 6-Packs with lesson plans



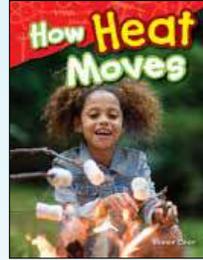
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GR: L  
Item: 84672  
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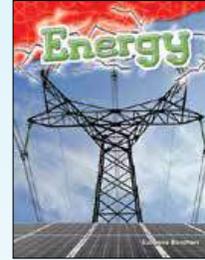
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GR: R  
Item: 84673  
\$48.99



GSE: S3E1  
Lexile®: 460L  
GR: J  
Item: 84674  
\$48.99



GSE: S3P1  
Lexile®: 330L  
GR: G  
Item: 84675  
\$43.99



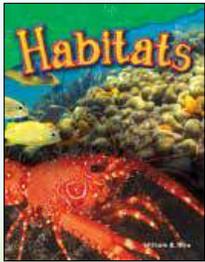
GSE: S3P1  
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GR: J  
Item: 84676  
\$48.99

## Physical Science 6-Packs with lesson plans

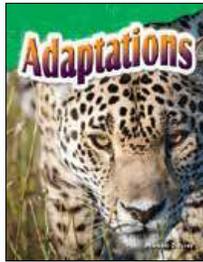
### Energy



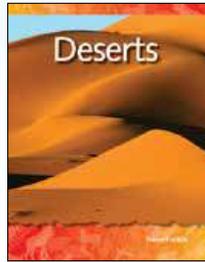
## Life Science 6-Packs with lesson plans



GSE: S3L1  
Lexile®: 460L  
GR: J  
Item: 84677  
\$48.99



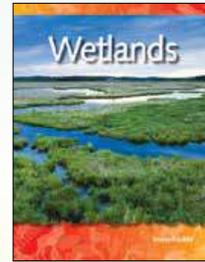
GSE: S3L1  
Lexile®: 770L  
GR: S  
Item: 84678  
\$48.99



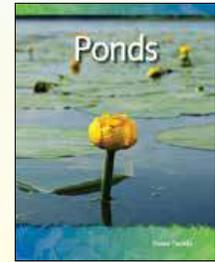
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Lexile®: 620L  
GR: O  
Item: 84679  
\$43.99



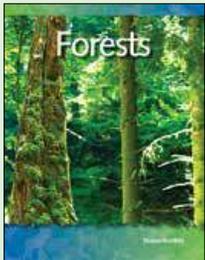
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GR: M  
Item: 84680  
\$43.99



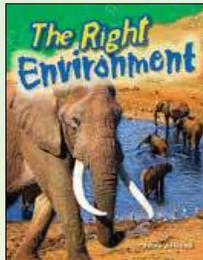
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GR: N  
Item: 84681  
\$43.99



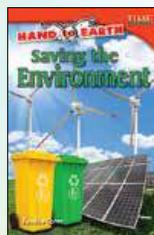
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Lexile®: 590L  
GR: N  
Item: 84682  
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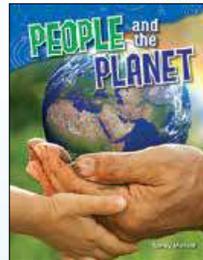
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Lexile®: 680L  
GR: P  
Item: 84683  
\$43.99



GSE: S3L2  
Lexile®: 670L  
GR: P  
Item: 84684  
\$48.99



GSE: S3L2  
Lexile®: 680L  
GR: S  
Item: 84685  
\$55.99



GSE: S3L2  
Lexile®: 640L  
GR: O  
Item: 84686  
\$48.99



GSE: S3L2  
Lexile®: 480L  
GR: K  
Item: 84687  
\$43.99

### We Recycle



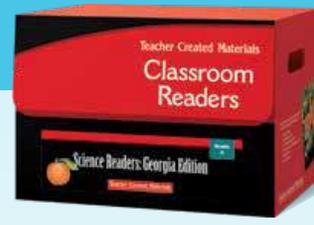
## Science Readers: Georgia Edition Grade 3

Title	Item#	Price
Complete Kit (6-Packs of the 16 titles shown, plus lesson plans and digital resources)	84944	\$877.99
Add-On Pack (Single copy of each reader; 16 titles total)	84953	\$117.99

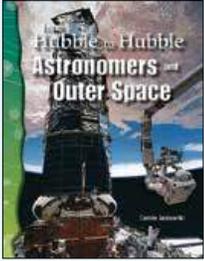
See page 18 for additional resources.

# 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



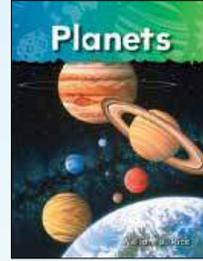
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Lexile®: 710L  
GR: Q  
Item: 84688  
\$48.99



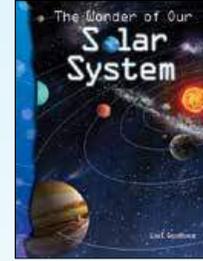
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GR: P  
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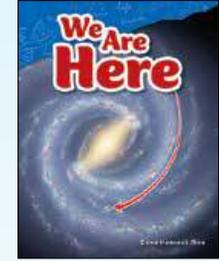
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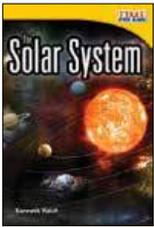
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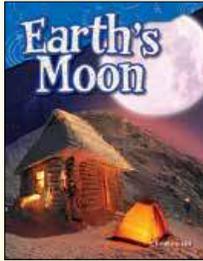
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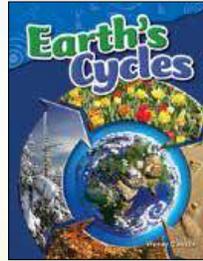
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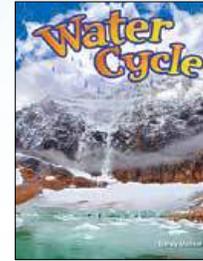
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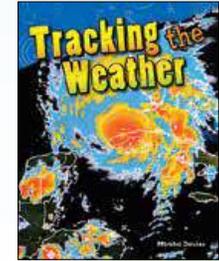
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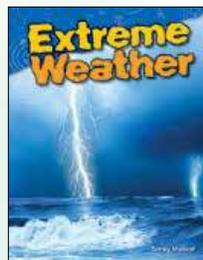
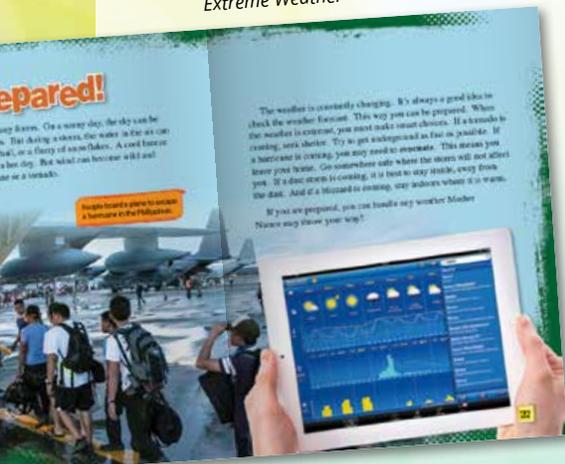


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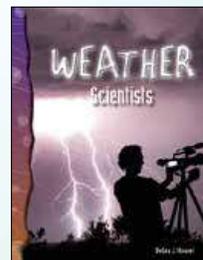


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## Extreme Weather



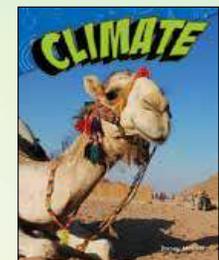
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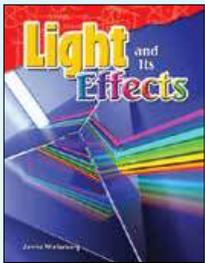


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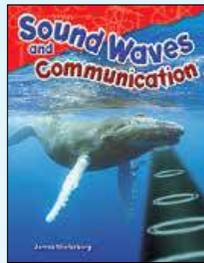


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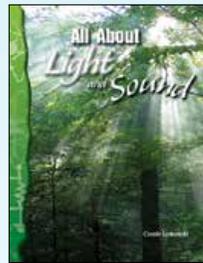
## Physical Science 6-Packs with lesson plans



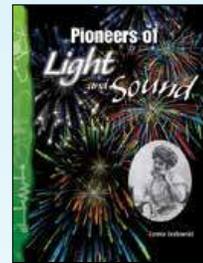
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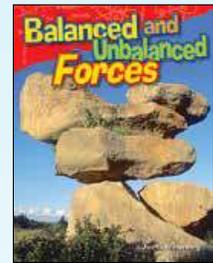
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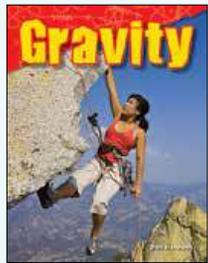
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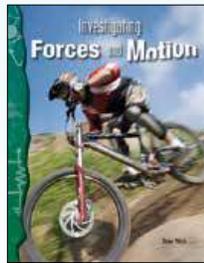
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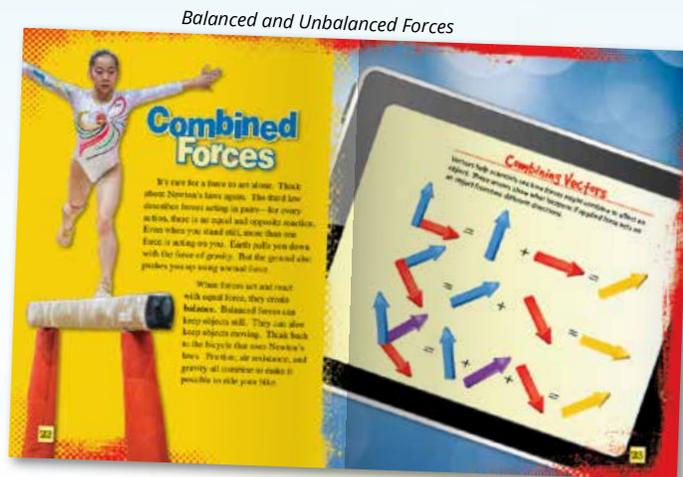
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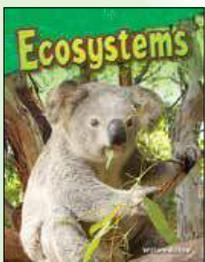
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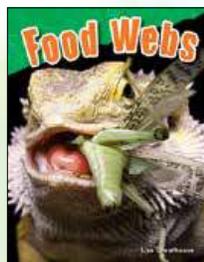
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## Life Science 6-Packs with lesson plans



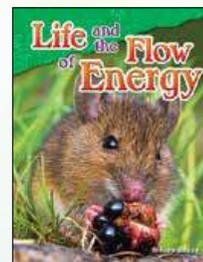
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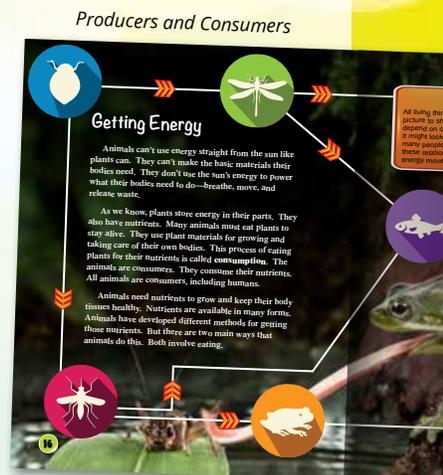
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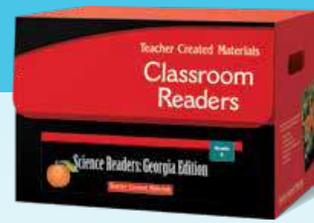
## Science Readers: Georgia Edition Grade 4

Title	Item3	Price
Complete Kit (6-Packs of the 27 titles shown, plus lesson plans and digital resources)	84945	\$1,514.99
Add-On Pack (Single copy of each reader; 27 titles total)	84954	\$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.

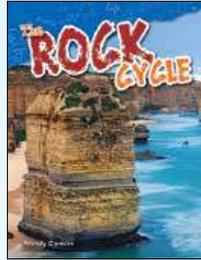
Pressure and heat in the mantle begin an eruption. They push magma into a chamber. Magma is lighter than the crust. So it tries to push above it. And pressure from gases pushes the magma through the crust. When pressure builds, ash, rock, gas, and steam escape. They push through a hole or crack in the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



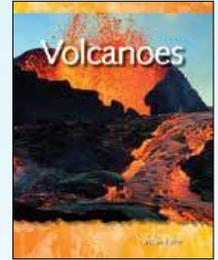
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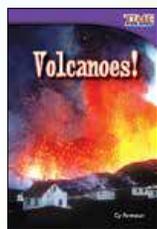
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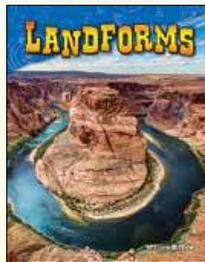
GSE: S5E1  
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GR: J  
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GR: O  
Item: 84718  
\$43.99



GSE: S5E1  
Lexile®: 660L  
GR: J  
Item: 84719  
\$39.99



GSE: S5E1  
Lexile®: 690L  
GR: P  
Item: 84720  
\$48.99



GSE: S5E1  
Lexile®: 800L  
GR: T  
Item: 84721  
\$48.99

**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 ran 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.

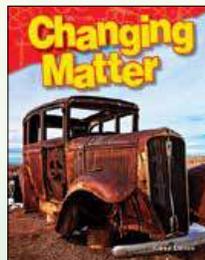
Wegener did not live long enough to find the reason for continental movement. He died in 1930.

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 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!

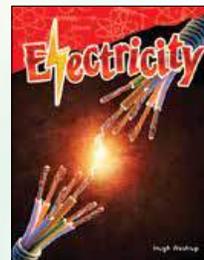
## Physical Science 6-Packs with lesson plans



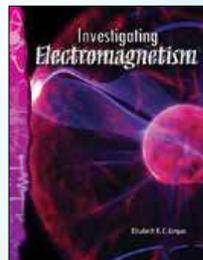
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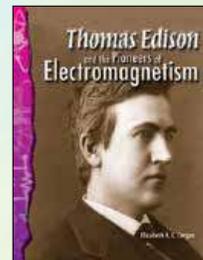
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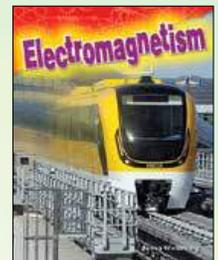
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GSE: S5P3  
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GR: P  
Item: 84726  
\$48.99



GSE: S5P3  
Lexile®: 620L  
GR: O  
Item: 84727  
\$48.99

## The World of 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-sis) to make their food.



Plant grow in this environment 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.



### Engelies

Many people were inspired by Mendel's findings. They thought it would be easy to change people's beliefs. 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-uhk). 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.

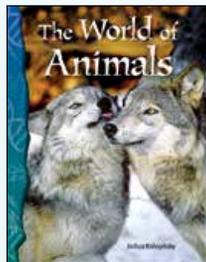


### Interesting To See

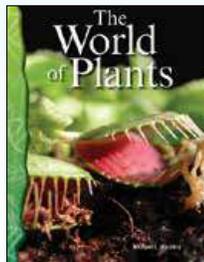
An illustration from the album *Henry* (1976-1981) shows some of the characteristics of pea plants that Mendel tested.



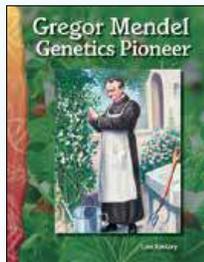
## Life Science 6-Packs with lesson plans



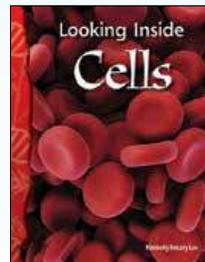
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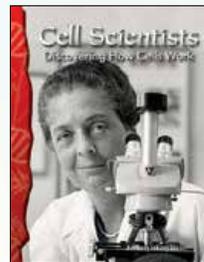
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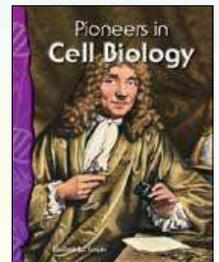
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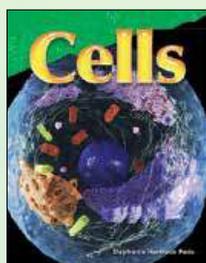
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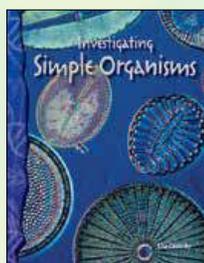
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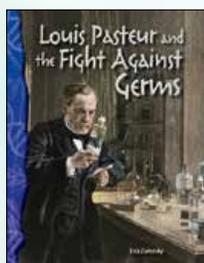
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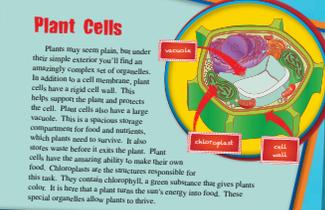


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### Cells

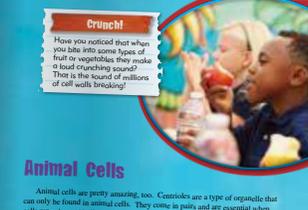
#### Plant Cells

Plants they seem plants, 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 seed that can use chlorophyll, too. After eating algae, it keeps the original chloroplasts and uses them in its own body.



#### Animal Cells

Animal cells are pretty amazing, too. Ctenophores are a type of organism 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 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 longer. Both of these assist movement throughout cells. No matter if they're plant or animal cells, they contain inner structures that compartment their work.



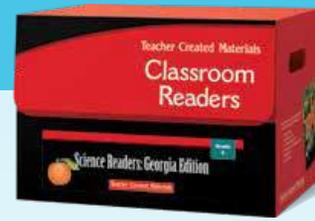
## Science Readers: Georgia Edition Grade 5

Title	Item#	Price
Complete Kit (6-Packs of the 22 titles shown, plus lesson plans and digital resources)	84946	\$1,219.99
Add-On Pack (Single copy of each reader; 22 titles total)	84955	\$159.99

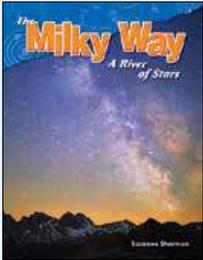
See pages 18-19 for additional resources.

# 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.



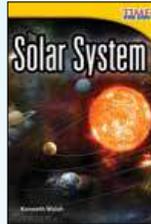
## Earth Science 6-Packs with lesson plans



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Item: 84737  
\$48.99



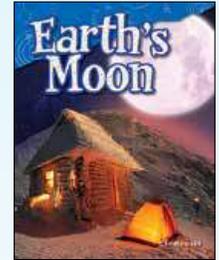
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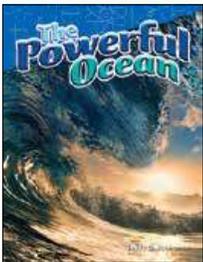
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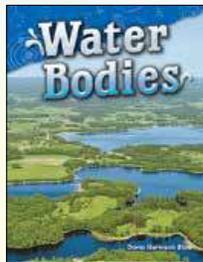
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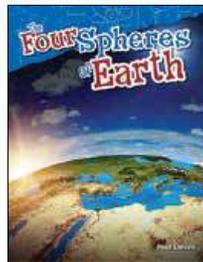
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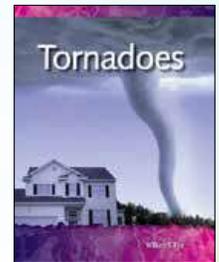
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\$39.99



GSE: S6E5  
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Item: 84751  
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## Earthquakes

California also has many earthquakes. There are thousands there each year. Two plates slide past each other in California. One is the North American plate. The other is the Pacific plate. They meet at a transform boundary.

The two plates move past each other at about five centimeters (two inches) per year. That is about how fast your fingernails grow each year.

Mountains and valleys have formed at this boundary. But they are nowhere near as big as the ones formed at convergent boundaries. The plate movement at the boundary also affects bodies of water. Some rivers flow across the boundary. They change their course as the plates move during an earthquake.

Rivers that cross the San Andreas Fault may change their course during and after an earthquake.

**San Andreas Fault**

The San Andreas Fault in California is a famous transform boundary. It is actually not a single fault line. It is really made of many segments. It is about 1,300 kilometers (800 miles) long.

**A Short Trip**

Because of plate movement, scientists think that the cities of Los Angeles and San Francisco will be right next to each other in about 15 million years!

**This image of the San Andreas fault was taken from space.**

**This image of the San Andreas fault was taken from an airplane.**

## The Story of Fossil Fuels

**One Fine Day**

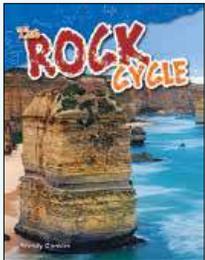
Picture where you look, the land is hot, and green. Mosses and ferns grow and sway in the breeze. Giant insects buzz and sparkle across the sky. Days stretch through the energy of hours overhead.

There is a river, a great tangled stream of water. It winds across a wide, flat plain. It is the size of a modern airport. It flows through the trees. As it glides, it carries a giant cockroach on its back. The cockroach is a giant prehistoric insect. It is a flying insect.

But the insect lives on its feet. It has lived long in this world, and now it looks for a place to rest. Its life is coming to an end. It is tired to collapse. Slowly it falls to the ground below the steady flow of a flowing river.

**The dragonfly-like creature of 250 million years ago is shown as a dragonfly.**

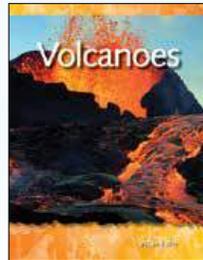
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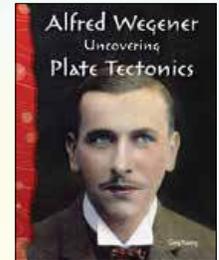
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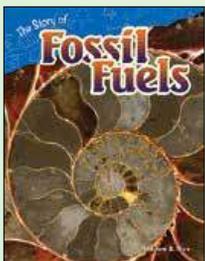
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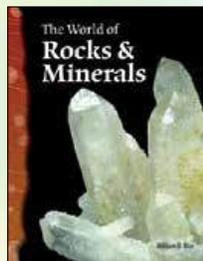
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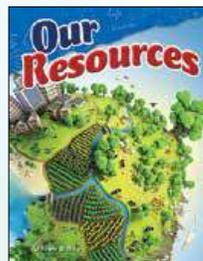
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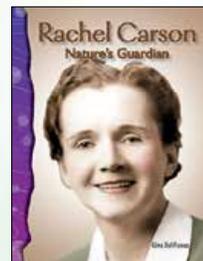
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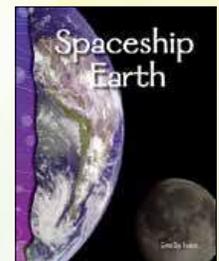
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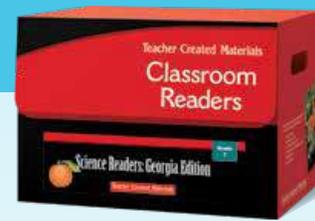
## Science Readers: Georgia Edition Grade 6

Title	Item#	Price
Complete Kit (6-Packs of the 25 titles shown, plus lesson plans and digital resources)	84947	\$1,374.99
Add-On Pack (Single copy of each reader; 25 titles total)	84956	\$180.99

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. Place it between the first 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 in an Ecosystem

**Earth, Our Home**

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

Whether you live in a big city, a small rural community, or somewhere in between, you can see that there is a lot of life on Earth. Take a look at the trees and flowers. Notice the insects and birds. Look at the clouds and water. Notice the interesting shapes and colors of the rocks and soil. Notice the different kinds of plants and animals. Notice the different kinds of life that live in the air after it rains. Notice the unique sounds of crickets and cicadas and the magical sound of a rippling brook. Notice, too, the changing seasons throughout the year.

**Life Out There**

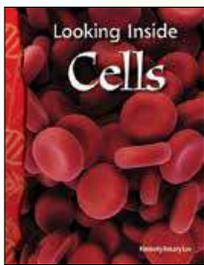
Many scientists believe that it is not just here on Earth that there is life. They think there are other planets in the solar system, and in the galaxy, that have the right size and distance from the sun. However, we don't know for sure, so we have to find the evidence that life exists elsewhere like Jupiter's moon.

**Searching for More**

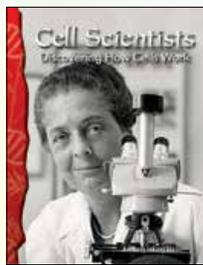
In 2012, NASA sent two robotic rovers to Mars. Their mission was to look around and send data back to Earth. Beginning in January 2014, the rovers began looking for any evidence of life on Mars.

Each of these things is remarkable. But the importance of them is not in their beauty or usefulness. The value comes from their uniqueness. What makes Earth remarkable is the simple fact that on this planet, we have both life and non-life. And in all the vast universe, Earth is the only place we know for sure has this combination. How fast is remarkable.

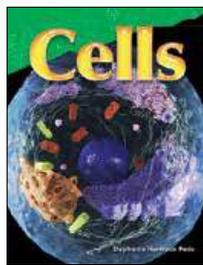
## Life Science 6-Packs with lesson plans



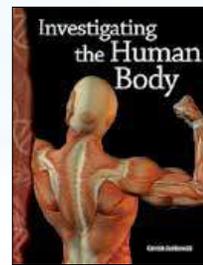
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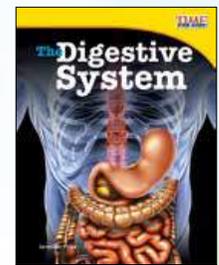
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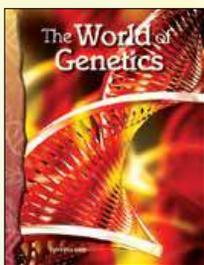
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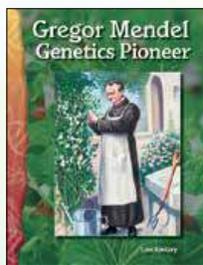
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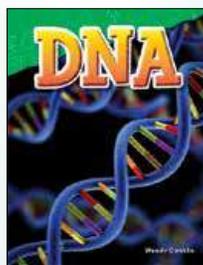
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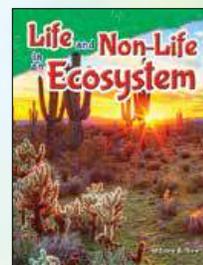
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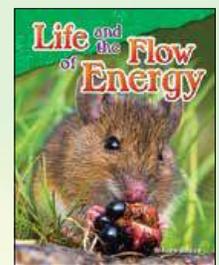
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GSE: S7L4  
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## Cells

### Cell by Cell

Have you ever built something with plastic building blocks? You can make houses, people or airplanes just by using blocks in the right shapes. The more types of blocks you have, the more types of things you can build. If you have blocks with wheels attached, you can make a toy car that rolls. If you have blocks 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 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, are animals on Earth?

## Traits for 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 Fuzzy!**  
Does an anteater sound fuzzy? Not the fuzzy! The anteater uses its fangs to fight other mammals for a mate. If one anteater knocks down the other, its fangs will finish the job.

A puffer fish.  
A frilled lizard.  
A cobra.

## 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. There are more cells in one bear than there are in a human.

**Black Bear**  
Some black bears live in the taiga. They eat salmon, fruits, and rodents. They also eat berries, leaves, and even meat! Because it's so cold in the taiga, bears have to eat anything they can to keep warm. Food adds a layer of fat that helps them to keep warm. Black bears are also big and strong. They are to 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.

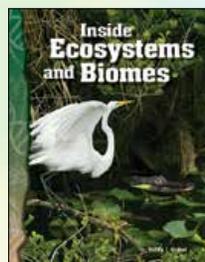
The second law is the Endangered Species Act of 1973. It protects plants, animals, and their ecosystems from becoming extinct.

**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.

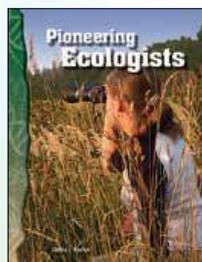
When crops were sprayed with DDT, many people on the phone. It is found inside the fat in one place. When the fat was used, it made people sick.

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

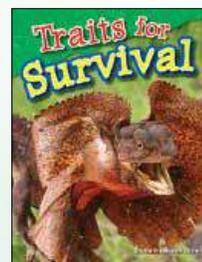
## Life Science 6-Packs with lesson plans (cont.)



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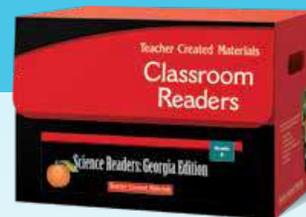
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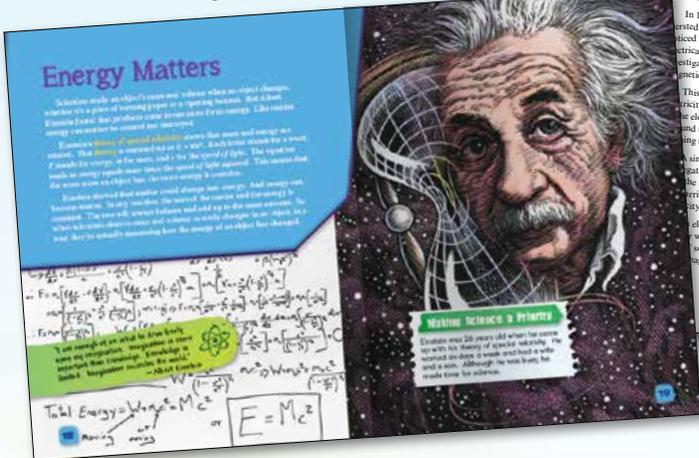
See page 19 for additional resources.

# Grade 8

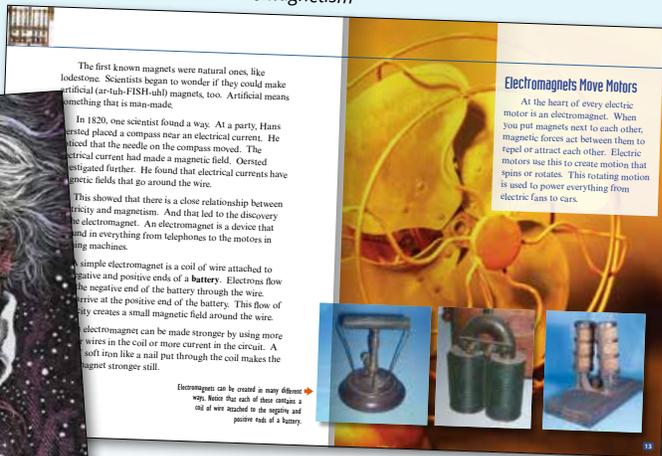
Align to new Georgia science standards, teach STEM themes, and develop students' critical thinking with these engaging readers. Hands-on science experiments and in-depth lesson plans are included to help students grasp critical science concepts.



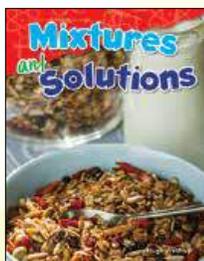
## Conservation of Mass



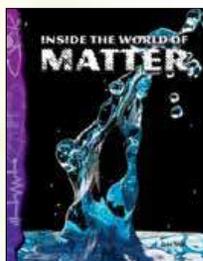
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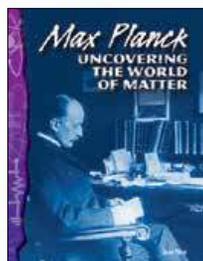
## Physical Science 6-Packs with lesson plans



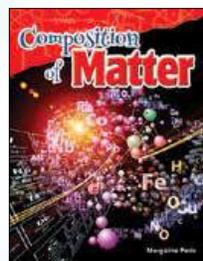
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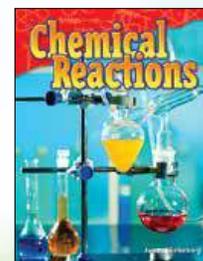
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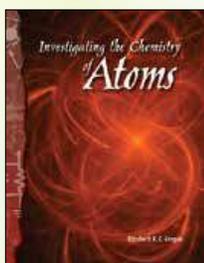
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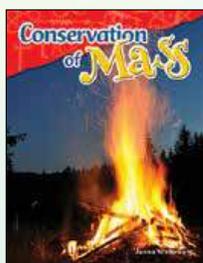
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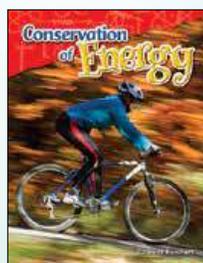
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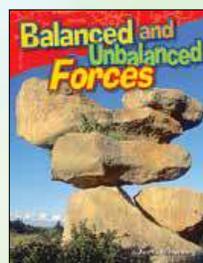
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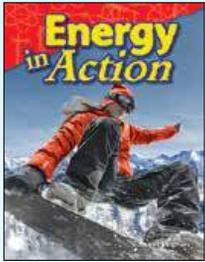


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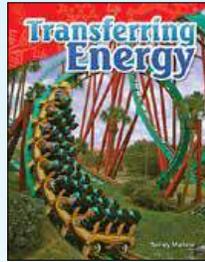


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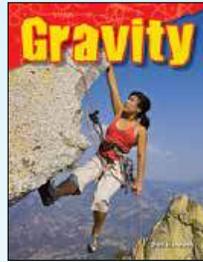
## Physical Science 6-Packs with lesson plans (cont.)



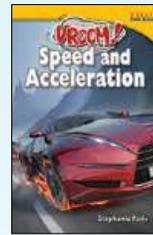
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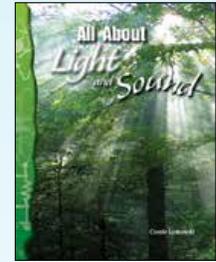
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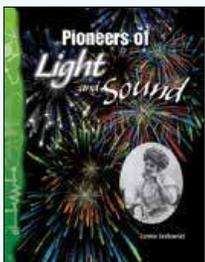
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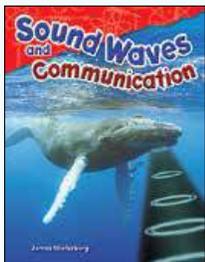
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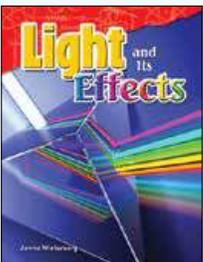
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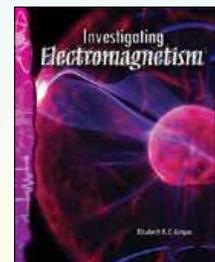
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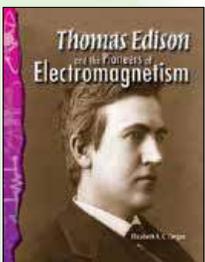
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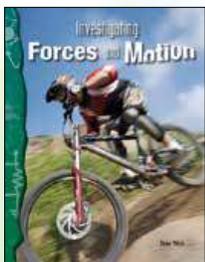
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GR: S  
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GSE: S8P4, S8P5  
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GR: P  
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GSE: S8P5  
Lexile®: 810L  
GR: T  
Item: 84797  
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*Investigating 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		

## Science Readers: Georgia Edition Grade 8

Title	Item#	Price
Complete Kit (6-Packs of the 22 titles shown, plus lesson plans and digital resources)	84949	\$1,329.99
Add-On Pack (Single copy of each reader; 22 titles total)	84958	\$164.99

See page 19 for additional resources.

# Additional Resources

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



## Smithsonian STEAM Readers

**Each kit includes:**

- **Books**—15 titles, 6 copies each with a STEAM challenge in each reader
- **Lessons** that strengthen content-area literacy skills and provide activities that support hands-on, minds-on learning
- **Management Guide**
- A **Culminating Activity** that challenges students to apply what they've learned about the engineering design process
- **Digital Resources** including Interactiv-eBooks, professional audio recordings, and student reproducibles

## 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	23508	\$399.99
Teaching through Text Sets: Space	23509	\$399.99
Teaching through Text Sets: Animals	23507	\$399.99
<b>Grade 2</b>		
Teaching through Text Sets: Basics of Matter	23511	\$399.99
<b>Grade 3</b>		
Smithsonian STEAM Readers: Grade 3 <b>NEW</b>	28843	\$799.99
Teaching through Text Sets: Movement of Energy	23283	\$399.99
Teaching through Text Sets: How Plants and Animals Survive	23282	\$399.99
Teaching through Text Sets: Adaptation	23279	\$399.99
Teaching through Text Sets: Sustainability	23287	\$399.99
Discovering Science through Inquiry: Ecology and the Environment	12370	\$249.99
Discovering Science through Inquiry: Energy	13651	\$249.99
Discovering Science through Inquiry: Rocks and Minerals	12369	\$249.99
<b>Grade 4</b>		
Smithsonian STEAM Readers: Grade 4 <b>NEW</b>	28844	\$799.99
Teaching through Text Sets: Plants	23510	\$399.99

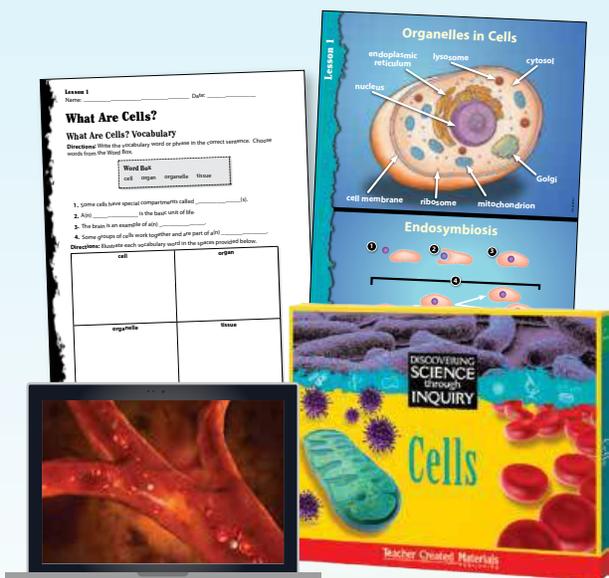
Title	Item	Price
<b>Grade 4 (cont.)</b>		
Teaching through Text Sets: Energy of Ecosystems	23285	\$399.99
Teaching through Text Sets: Climate and Weather	23281	\$399.99
Teaching through Text Sets: Forces and Motion	23280	\$399.99
Discovering Science through Inquiry: Biomes and Ecosystems	10478	\$249.99
Discovering Science through Inquiry: Living Organisms	10800	\$249.99
Discovering Science through Inquiry: Forces and Motion	10477	\$249.99
Discovering Science through Inquiry: Light and Sound	12368	\$249.99
Discovering Science through Inquiry: Earth Systems and Cycles	10798	\$249.99
Discovering Science through Inquiry: The Solar System	12366	\$249.99
<b>Grade 5</b>		
Smithsonian STEAM Readers: Grade 5 <b>NEW</b>	28845	\$799.99
Teaching through Text Sets: The Changing Shape of Land	23512	\$399.99
Teaching through Text Sets: Weathering and Erosion	23284	\$399.99
Teaching through Text Sets: Changing Matter	23286	\$399.99
Discovering Science through Inquiry: Cells	12367	\$249.99
Discovering Science through Inquiry: Living Organisms	10800	\$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 (cont.)</b>		
Discovering Science through Inquiry: Electricity and Magnetism	12365	\$249.99
Discovering Science through Inquiry: Matter	10799	\$249.99
Discovering Science through Inquiry: Forces in Nature	10476	\$249.99
<b>Grade 6</b>		
Teaching through Text Sets: The Changing Shape of Land	23512	\$399.99
Teaching through Text Sets: Weathering and Erosion	23284	\$399.99
Teaching through Text Sets: Climate and Weather	23281	\$399.99
Discovering Science through Inquiry: Earth Systems and Cycles	10798	\$249.99
Discovering Science through Inquiry: Forces in Nature	10476	\$249.99
Discovering Science through Inquiry: The Solar System	12366	\$249.99
Discovering Science through Inquiry: Rocks and Minerals	12369	\$249.99
<b>Grade 7</b>		
Teaching through Text Sets: Plants	23510	\$399.99
Teaching through Text Sets: Energy of Ecosystems	23285	\$399.99
Teaching through Text Sets: Adaptation	23279	\$399.99

Title	Item	Price
<b>Grade 7 (cont.)</b>		
Teaching through Text Sets: Sustainability	23287	\$399.99
Discovering Science through Inquiry: Biomes and Ecosystems	10478	\$249.99
Discovering Science through Inquiry: Cells	12367	\$249.99
Discovering Science through Inquiry: Ecology and the Environment	12370	\$249.99
Discovering Science through Inquiry: Living Organisms	10800	\$249.99
<b>Grade 8</b>		
Teaching through Text Sets: Movement of Energy	23283	\$399.99
Teaching through Text Sets: Changing Matter	23286	\$399.99
Teaching through Text Sets: Forces and Motion	23280	\$399.99
Discovering Science through Inquiry: Electricity and Magnetism	12365	\$249.99
Discovering Science through Inquiry: Energy	13651	\$249.99
Discovering Science through Inquiry: Forces and Motion	10477	\$249.99
Discovering Science through Inquiry: Light and Sound	12368	\$249.99
Discovering Science through Inquiry: Matter	10799	\$249.99

