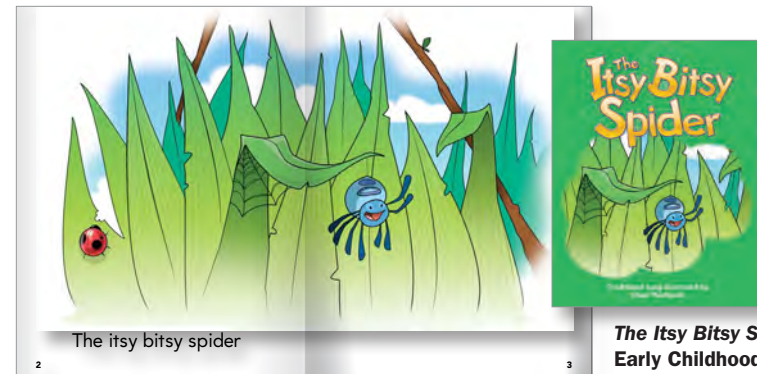


FOSS Correlations

Grades K-2



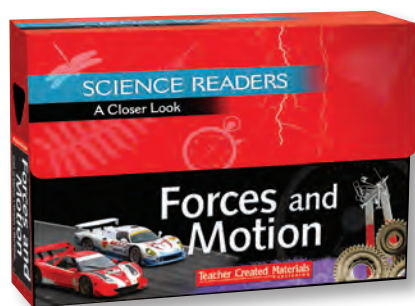
Land, Nonfiction Readers:
Emergent Kit



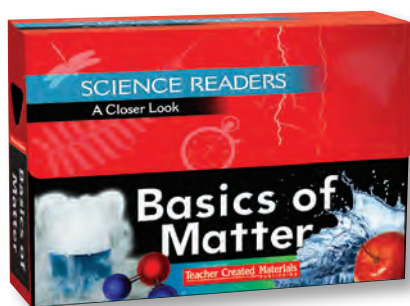
The Itsy Bitsy Spider,
Early Childhood Themes:
Weather

Grades K-2	FOSS Courses/Modules	Science Concepts	Science Readers: A Closer Look (Interest Level Grades 2-6)	Nonfiction Readers (Interest Level Grades K-6)	Early Childhood Themes (Interest Level Grades Pre-K-3)	
EARTH AND SPACE SCIENCE						
Kindergarten	Wood and Paper Module, Fabric Module	Materials, Structures, Change		Emergent Kit (1.0-1.4) <i>Land</i>	Early Fluent Plus Kit (2.5-2.9) <i>Our Earth</i>	
Grades 1-2	Pebbles, Sand, and Silt Module	Earth, Material, Rock, Mixture, Particles, Soil		Emergent Kit (1.0-1.4) <i>Places to Go</i> <i>Land</i> <i>Water</i>	Early Fluent Kit (2.0-2.4) <i>Mexico</i> <i>The Caribbean</i> <i>Earthquakes</i> <i>Tornadoes and Hurricanes</i> <i>Volcanoes</i> <i>All About Hand-Blown Glass</i>	
				Upper Emergent Kit (1.5-1.9) <i>A Frog's Life</i> <i>Sea Life</i> <i>Homes Around the World</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Desert</i> <i>In the Rainforest</i> <i>Our Earth</i> <i>Outer Space</i> <i>The Solar System</i>	
Grades 1-2	Air and Weather Module	Earth, Material, Rock, Mixture, Particles, Soil		Emergent Kit (1.0-1.4) <i>Places to Go</i> <i>Weather</i> <i>Water</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Forest</i> <i>In the Desert</i> <i>In the Rainforest</i> <i>Our Earth</i> <i>Outer Space</i>	
				Upper Emergent Kit (1.5-1.9) <i>A Frog's Life</i> <i>Keeping Fit with Sports</i>	Fluent Plus Kit (3.5-3.9) <i>Earth's Seasons and Cycles</i>	Weather Kit (Pre-K-2) (Available English & Spanish)
				Early Fluent Kit (2.0-2.4) <i>A Visit to a Farm</i> <i>Mexico</i> <i>Canada</i> <i>The Caribbean</i> <i>Tornadoes and Hurricanes</i>		

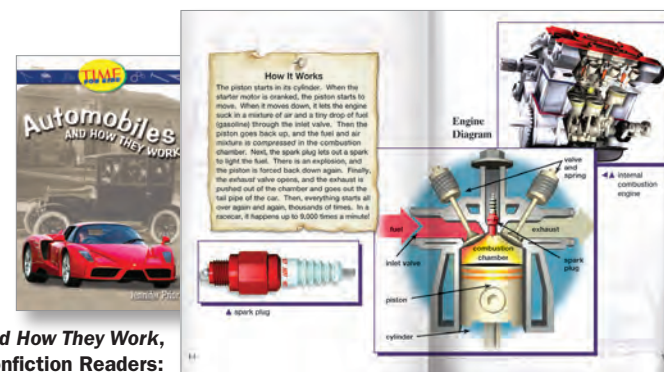
Grades K-2	FOSS Courses/Modules	Science Concepts	Science Readers: A Closer Look (Interest Level Grades 2-6)	Nonfiction Readers (Interest Level Grades K-6)	Early Childhood Themes (Interest Level Grades Pre-K-3)
PHYSICAL SCIENCE					
Kindergarten	Paper, Wood, and Fiber Module	Float, Sink, Wood, Change, Cut, Mixture, Sculpture, Corrugated, Same, Different, Material, Paper, Source, Tear, Fold, Absorb, Cloth, Fiber, Pulp, Recycle, Fabric, Sew, Thread, Yarn, Dry, Graph, Permanent		Upper Emergent Kit (1.5-1.9) <i>Things to Make</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Rainforest</i> <i>Our Earth</i>
Grades 1-2	Balance and Motion Module	Balance, Balance point, Mobile, Stability, Motion, Rotate, Disk, Wheel motion, Roll, Slope, Spin, Axle, Sphere,	Forces and Motion (2.5-3.5) <i>Climbing and Diving</i> <i>The Quest for Personal Best/Individual Sports</i> <i>How Toys Work</i> <i>Bikes and Boards</i> <i>The Quest for Speed</i> <i>Vehicles</i> <i>How Amusement Parks Work</i>	Emergent Kit (1.0-1.4) <i>On the Go</i> Upper Emergent Kit (1.5-1.9) <i>Keeping Fit with Sports</i>	Early Fluent Plus Kit (2.5-2.9) <i>The Skeleton and Muscles</i> <i>Travel in the U.S.A. Then and Now</i> Fluent Kit (3.0-3.4) <i>A Day in the Life of a Ballet Dancer</i> <i>Planes and How They Work</i> <i>Trains and How They Work</i> <i>Automobiles and How They Work</i>
Grades 1-2	Solids and Liquids Module	Change, Crystal, Dissolve, Solution, Property, Solid, Foam, Liquid, Evaporation, Layer, Mixture, Viscous, Transparent, Opaque	Basics of Matter (1.1-2.2) <i>Gases</i> <i>Evaporation</i> <i>Solids</i> <i>Melting and Freezing</i> <i>Liquids</i> <i>Condensation</i>	Emergent Kit (1.0-1.4) <i>Water</i> Early Fluent Kit (2.0-2.4) <i>All About Hand-Blown Glass</i> <i>All About Chocolate</i>	Fluent Plus Kit (3.5-3.9) <i>Earth's Seasons and Cycles</i>



Science Readers: A Closer Look
Forces and Motion

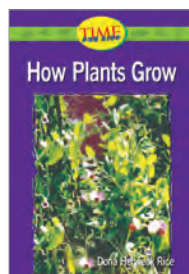


Science Readers: A Closer Look
Basics of Matter



Automobiles and How They Work,
Nonfiction Readers:
Fluent Kit

Grades K–2	FOSS Courses/Modules	Science Concepts	Science Readers: A Closer Look (Interest Level Grades 2–6)	Nonfiction Readers (Interest Level Grades K–6)	Early Childhood Themes (Interest Level Grades Pre-K–3)	
LIFE SCIENCE						
Kindergarten	Trees Module	Tree, Living, Shape, Branch, Leaf, Roots, Trunk		Emergent Kit (1.0-1.4) <i>How Plants Grow</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Forest</i> <i>In the Desert</i> <i>In the Rainforest</i>	Plants Kit (Pre-K–3)
Kindergarten	Animals Two By Two Module	Animal, Behavior, Fish, Living, Preference, Habitat, Aquarium, Terrarium, Structure, Hatch, Incubate		Emergent Kit (1.0-1.4) <i>Animal Mothers and Babies</i>	Upper Emergent Kit (1.5-1.9) <i>Animals</i> <i>Sea Life</i>	Animals Kit (Pre-K–2)
Grades 1–2	Insects Module	Adult, Change, Insect, Larva, Pupa, Stage, Habitat, Nymph, Egg, Growth, Caterpillar, Metamorphosis, Chrysalis, Butterfly		Upper Emergent Kit (1.5-1.9) <i>A Butterfly's Life</i> <i>A Bee's Life</i> <i>Insects and Spiders</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Forest</i> <i>In the Desert</i> <i>In the Rainforest</i>	Weather (Pre-K–2): <i>The Itsy Bitsy Spider</i>
Grades 1–2	New Plants Module	Life, Cycle, Germination, Grow Living, Plant structures, Node, Stem, Bulb, Root, Seed		Emergent Kit (1.0-1.4) <i>Land</i> <i>Water</i> <i>How Plants Grow</i>	Early Fluent Kit (2.0-2.4) <i>A Visit to a Farm</i> <i>All About Chocolate</i>	Plants Kit (Pre-K–2)
				Upper Emergent Kit (1.5-1.9) <i>A Bee's Life</i>	Early Fluent Plus Kit (2.5-2.9) <i>In the Forest</i> <i>In the Desert</i> <i>In the Rainforest</i>	



How Plants Grow,
Nonfiction Readers:
Emergent Kit



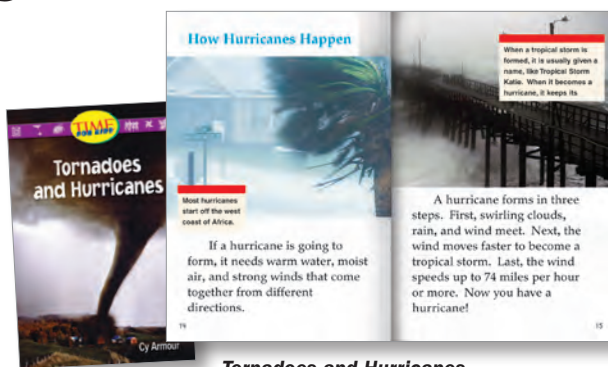
In the Forest,
Nonfiction Readers: Upper Emergent Kit



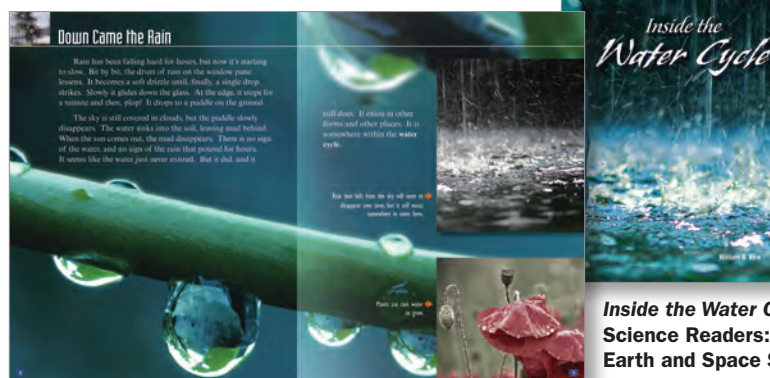
Early Childhood Themes: Plants

FOSS Correlations

Grades 3–8



**Tornadoes and Hurricanes,
Nonfiction Readers: Early Fluent Kit**



**Inside the Water Cycle,
Science Readers:
Earth and Space Science**

Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
EARTH AND SPACE SCIENCE						
Grades 3–4	Earth Materials Module	Earth material, Crystal, Geology, Mineral, Rock, Property,	Earth and Space Science Readers (3.8–4.9) Unit 2: <i>The World of Rocks and Minerals</i> and <i>The First Geologists</i> Unit 5: <i>Investigating Plate Tectonics</i> and <i>Alfred Wegener: Uncovering Plate Tectonics</i>	Forces in Nature (2.4–3.4) <i>Earthquakes</i> <i>Volcanoes</i>	Forces in Nature Lesson 10: Physical Weathering Lesson 11: Chemical Weathering	Emergent Kit (1.0–1.4) <i>Land</i> Early Fluent Kit (2.0–2.4) <i>Earthquakes</i> Early Fluent Plus Kit (2.5–2.9) <i>Our Earth</i>
Grades 3–4	Water Module	Change, Cycle, Condensation, Earth material, Evaporation, Liquid, Solid, Property, Surface tension	Earth and Space Science Readers (3.8–4.5) Unit 3: <i>Inside the Water Cycle</i> and <i>Water Scientists</i> Earth and Space Science Futures Channel DVD <i>Searching for Water on Mars</i>	Forces in Nature (3.5) <i>Floods and Blizzards</i> Biomes and Ecosystems (2.4–2.5) <i>Wetlands</i> <i>Oceans</i> <i>Ponds</i>	Forces in Nature Lesson 1: Floods Lesson 6: Snowstorms	Emergent Kit (1.0–1.4) <i>Weather</i> <i>Water</i> Early Fluent Kit (2.0–2.4) <i>Tornadoes and Hurricanes</i>
Grades 5–6	Landforms Module	Contour, Erosion, Deposition, Elevation, Landform, Map, Model, Point of view, Slope, Topography	Earth and Space Science Readers (3.8–4.9) Unit 4: <i>Investigating Landforms</i> and <i>Pioneers of Earth Science</i> Unit 5: <i>Investigating Plate Tectonics</i> and <i>Alfred Wegener: Uncovering Plate Tectonics</i> Unit 8: <i>Spaceship Earth</i> and <i>Rachel Carson: Nature's Guardian</i>	Forces in Nature (2.4–3.4): <i>Volcanoes</i> <i>Earthquakes</i>	Forces in Nature Lesson 5: Volcanoes Lesson 7: Wildfires Lesson 8: Landslides Lesson 12: Erosion Lesson 13: Wind Erosion Lesson 14: Water Erosion Lesson 15: Glacial Erosion Lesson 16: Roots Growth	Fluent Plus Kit (3.5–3.9) <i>African Grasslands</i> <i>Chesapeake Bay Wetlands</i> <i>Death Valley Desert</i>
Grades 5–6	Solar Energy Module	Absorb, Change, Energy transfer, Heat sink, Insulation, Orientation, Reflect, Shadow, Solar, Energy, Surface, Area	Earth and Space Science Readers (3.8–4.5) Unit 1: <i>Investigating Storms</i> and <i>Weather Scientists</i> Unit 3: <i>Inside the Water Cycle</i> and <i>Water Scientists</i> Earth and Space Science Futures Channel DVD <i>Space Weather</i>		Forces in Nature Lesson 15: Glacial Erosion	Fluent Plus Kit (3.5–3.9) <i>Death Valley Desert</i> <i>Earth's Seasons and Cycles</i>

	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
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EARTH AND SPACE SCIENCE (cont.)

Grades 6–8	Planetary Science Course	Solar system, Planet, Satellite, Crater, Atmosphere, Scale, Orbit, Revolution, Rotation, Day and night, Interaction, Change	<p>Earth and Space Science Readers (3.9–4.9) Unit 6: <i>The Wonders of Our Solar System and Astronomers Through Time</i> Unit 7: <i>The Wonder of Outer Space and From Hubble to Hubble: Astronomers and Outer Space</i></p> <p>Earth and Space Science Futures Channel DVD Communications Satellites Eyes on the Universe: Looking Into Time Eyes on the Universe: Planetary Systems Eyes on the Universe: What's Next Searching for Water on Mars</p>	Forces in Nature (2.4) Volcanoes (Page 27 Mars)		
Grades 6–8	Earth History Course	Erosion, Deposition, Sedimentation, Lithification, Index fossil, Rock formation, Landform, Prehistoric environment, Evidence	<p>Earth and Space Science Readers (3.8–4.9) Unit 2: <i>The World of Rocks and Minerals and The First Geologists</i> Unit 4: <i>Investigating Landforms and Pioneers of Earth Science</i> Unit 5: <i>Investigating Plate Tectonics and Alfred Wegener; Uncovering Plate Tectonics</i></p>		<p>Forces in Nature Lesson 3: Earthquakes Lesson 5: Volcanoes Lesson 10: Physical Weathering Lesson 11: Chemical Weathering Lesson 12: Erosion Lesson 13: Wind Erosion Lesson 14: Water Erosion Lesson 15: Glacial Erosion Lesson 16: Roots Growth</p>	
Grades 6–8	Weather and Water Course	Heat, Radiation, Conduction, Convection, Density, Pressure, Condensation, Water cycle, Drainage basin, Climate	<p>Earth and Space Science Readers (3.8–4.7) Unit 1: <i>Investigating Storms and Weather Scientists</i> Unit 3: <i>Inside the Water Cycle and Water Scientists</i> Unit 4: <i>Investigating Landforms and Pioneers of Earth Science</i></p> <p>Earth and Space Science Futures Channel DVD Space Weather Tornado Chase Voyage of the Ventana</p>	<p>Forces in Nature (2.5–3.5) Tornadoes Hurricanes Floods and Blizzards</p>	<p>Forces in Nature Lesson 1: Floods Lesson 2: Tornadoes Lesson 4: Hurricanes Lesson 6: Snowstorms Lesson 7: Wildfires Lesson 8: Landslides</p>	



Science Readers: Earth and Space Science

From Hubble to Hubble Astronomers and Outer Space, Science Readers: Earth and Space Science

Later in China around A.D. 1000, scientists studied how land was formed. They figured that land must change over time. They began to understand erosion. Erosion wears away mountains, rocks, and other landforms.

In Europe about 500 years later, scientists added to this knowledge. They believed that particles carried by rivers to the sea would turn into rock over time. They also thought the rock would be split to form mountains. They figured that the deposits left in rivers must be thousands of years old. This made them realize that Earth must be many times older.

A short time later, scientists learned something more. It had to do with layers in the earth. The layers are called strata. A scientist from Denmark named Nicholas Steno developed several basic rules about them. These were the most important.

The first rule is that the lowest strata is the oldest because they are laid down first. Strata get younger the higher up they go. The second rule states that when strata are laid down, they spread out from side to side like a blanket on a bed. Finally, the third law states that underground strata will keep going side to side until they are blocked. These rules may seem simple, but they remain important today. Geologists still use them when they study Earth.

Modern Geology
The study of the earth moved forward, but slowly. That all started to change in the late 1700s. That is when Earth science became its own area of study, and the word "geology" was first used.

This diagram shows how moving water erodes layers of strata, one level at a time. This is how the Grand Canyon was formed.

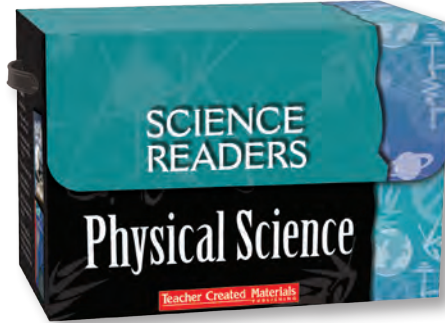
Oldest Rock
The oldest known rock from Earth is 4 billion years old.



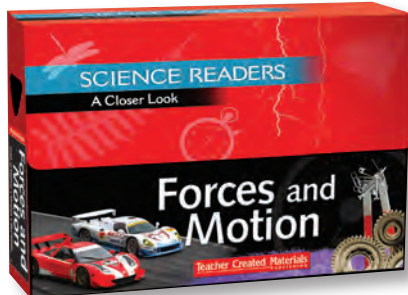
Discovering Science through Inquiry: Forces in Nature Grades 3–8

Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
PHYSICAL SCIENCE						
Grades 3–4	Magnetism and Electricity Module	Attract, Force, Magnet, Repel, Closed circuit, Open circuit, Switch, Conductor, Electric circuit, Insulator, Electromagnet, Technology, Telegraph, Code	Physical Science Readers (3.9–4.9) Unit 5: <i>Investigating Electromagnetism and Thomas Edison and the Pioneers of Electromagnetism</i> Unit 7: <i>All About Light and Sound and Pioneers of Light and Sound</i>		Forces and Motion Lesson 14: Magnetism Lesson 15: Earth’s Magnetic Field Lesson 16: Electricity	Early Fluent Plus Kit (2.5-2.9) <i>Communications in the U.S.A. Then & Now</i>
			Physical Science Futures Channel DVD Making Sparks 1		Electricity and Magnetism (1.0-2.2) Lesson 1: What is Electricity? Lesson 2: Uses of Electricity Lesson 3: Static Electricity Lesson 4: Conductors and Insulators Lesson 5: Electric Circuits Lesson 6: Types of Circuits Lesson 7: Electricity and Heat Lesson 8: Electricity and Light Lesson 9: Electricity and Sound Lesson 10: Saving Electricity Lesson 11: What Is a Magnet? Lesson 12: Magnetic Poles Lesson 13: Magnetic Fields Lesson 14: Magnetic Strength Lesson 15: Electromagnets Lesson 16: Electromagnetism and Electric Motors	Fluent Kit (3.0-3.4) <i>Inventions in Communication</i>
Grades 3–4	Physics of Sound Module	Sound discrimination, Code, Sound receiver, Sound source, Vibration, Sound, Travel, Pitch	Physical Science Readers (3.9–4.9) Unit 7: <i>All About Light and Sound and Pioneers of Light and Sound</i>	The Human Body (1.0-2.2) <i>The Senses</i>		Early Fluent Plus Kit (2.5-2.9) <i>Communications in the U.S.A. Then & Now</i>
			Physical Science Futures Channel DVD Concert Acoustics			Fluent Kit (3.0-3.4) <i>Inventions in Communication</i> Fluent Plus Kit (3.5-3.9) <i>The Five Senses</i>

Grades 3-8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3-12)	Science Readers: A Closer Look (Interest Level Grades 2-6)	Discovering Science Through Inquiry (Interest Level Grades 3-8)	Nonfiction Readers (Interest Level Grades K-6)
PHYSICAL SCIENCE (cont.)						
Grades 5-6	Mixtures and Solutions Module	Crystal, Dissolve, Mixture, Evaporation, Property, Solution, Saturation, Volume, Solubility, Concentration, Volume, Gas, Chemical reaction, Precipitate	Physical Science Readers (3.8-4.9) Unit 1: <i>Inside the World of Matter and Max Planck: Uncovering the World of Matter</i> Unit 8: <i>The World of Elements and Their Properties and Antoine Lavoisier: Founder of Modern Chemistry</i>	Basics of Matter (1.1-2.2) Gases Evaporation Solids Melting and Freezing Liquids Condensation	Matter Lesson 1: What Is an Atom? Lesson 2: What Are Molecules? Lesson 3: Solids Lesson 4: Liquids Lesson 5: Gases Lesson 6: Melting and Freezing Lesson 7: Evaporating and Condensing Lesson 8: Mass and Weight Lesson 9: Conservation of Matter Lesson 10: Changes in State Lesson 11: Physical Properties Lesson 12: Chemical Properties Lesson 13: Solubility Lesson 14: Density Lesson 15: Boiling and Melting Lesson 16: Separating Substances	
Grades 5-6	Levers and Pulleys Module	Advantage, Effort, Fulcrum, Lever, Load, Diagram, Class-1 lever, Class-2 lever, Class-3 lever, Fixed pulley, Movable pulley, Simple machine	Physical Science Readers (3.9-4.9) Unit 4: <i>Investigating Forces and Motion and Isaac Newton and the Laws of the Universe</i> Unit 6: <i>All About Mechanical Engineering and Making It Go: The Life and Work of Robert Fulton</i>	Forces and Motion (2.5) <i>How Amusement Parks Work</i> <i>How Toys Work</i>		



Science Readers: Physical Science



Science Readers: A Closer Look Forces and Motion

Rank	Roller Coaster	Speed	Location
1.	Ring Racer	217 kph/135 mph	Nürburgring, Rhineland-Palatinate, Germany
2.	Kings Ka	206 kph/128 mph	Six Flags Great Escape, New Jersey, U.S.A.
3.	Top Thrill Dragster	193 kph/120 mph	Cedar Point, Ohio, U.S.A.
4.	Dodopar	172 kph/107 mph	Fuji-Q Highland, Yamanashi, Japan
5. (tie)	Superman The Escape	161 kph/100 mph	Six Flags Magic Mountain, California, U.S.A.
5. (tie)	Tower of Terror	161 kph/100 mph	Dreamworld, Queensland, Australia

According to Roller Coaster Database

Velocity and Acceleration

Another way to measure motion is called **velocity** (vuh-LEHS-uh-see). This is how an object's position changes over time. Velocity is a change in speed and direction. Think about jogging in place. You might be moving your legs very fast. But in the end your place has not changed. So, that would be zero velocity.

Another measurement is **acceleration** (ak-uh-uh-RAI-uh-shun). Many people think acceleration means moving fast. But a person can be moving fast and still not accelerate. An object accelerates if it changes speed. If a ride begins to move forward, that is acceleration. When it slows down, it is negative acceleration. That is called **deceleration** (dee-suh-AY-uh-shun).

Kingda Ka at Six Flags is 139 meters (456 feet) high!

How Amusement Parks Work, Science Readers: A Closer Look Forces and Motion

Grades 3-8

FOSS Courses/
Modules

Science Concepts

Science Readers
(Interest Level Grades 3-12)

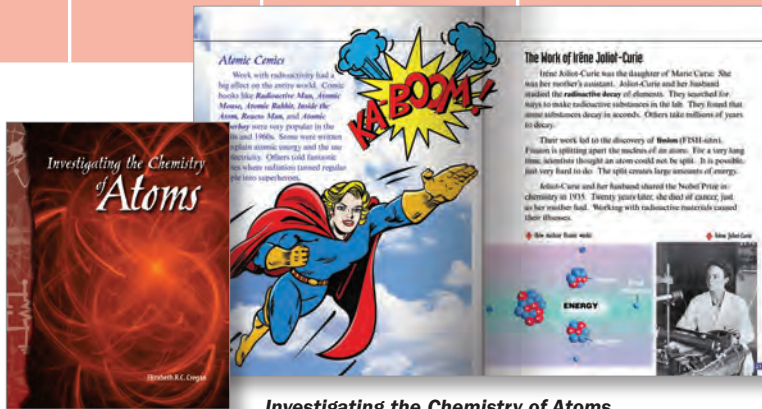
Science Readers:
A Closer Look
(Interest Level Grades 2-6)

Discovering Science
Through Inquiry
(Interest Level Grades 3-8)

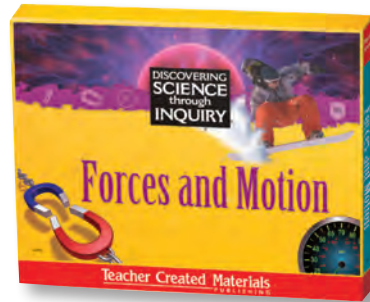
Nonfiction Readers
(Interest Level Grades K-6)

PHYSICAL SCIENCE (cont.)

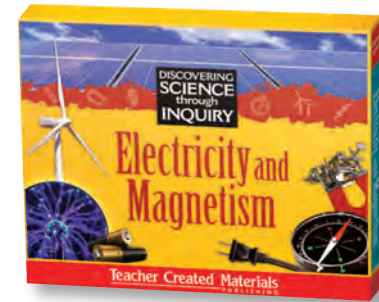
Grades 6-8	Electronics Course	Circuit, Ohm's Law, Component, Meter, Digital, Potential, Current, Resistance	<p>Physical Science Readers (3.9-4.9) Unit 3: <i>All About Energy and Albert Einstein: Gentle Genius</i> Unit 5: <i>Investigating Electromagnetism and Thomas Edison and the Pioneers of Electromagnetism</i></p> <p>Physical Science Futures Channel DVD Making Sparks 1 Making Sparks 2 Solar PoweredCars</p>		<p>Forces and Motion Lesson 14: Magnetism Lesson 15: Earth's Magnetic Field Lesson 16: Electricity</p> <p>Electricity and Magnetism Lesson 1: What is Electricity? Lesson 2: Uses of Electricity Lesson 3: Static Electricity Lesson 4: Conductors and Insulators Lesson 5: Electric Circuits Lesson 6: Types of Circuits Lesson 7: Electricity and Heat Lesson 8: Electricity and Light Lesson 9: Electricity and Sound Lesson 10: Saving Electricity Lesson 11: What Is a Magnet? Lesson 12: Magnetic Poles Lesson 13: Magnetic Fields Lesson 14: Magnetic Strength Lesson 15: Electromagnets Lesson 16: Electromagnetism and Electric Motors</p>
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**Investigating the Chemistry of Atoms,
Science Readers: Physical Science**

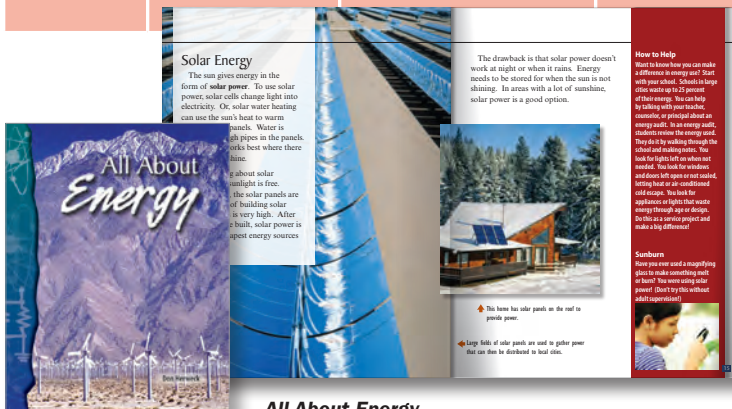


**Discovering Science through Inquiry:
Forces and Motion
Grades 3-8**

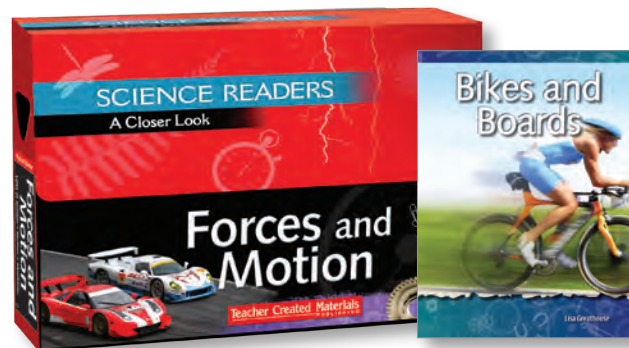


**Discovering Science through Inquiry:
Electricity and Magnetism
Grades 3-8**

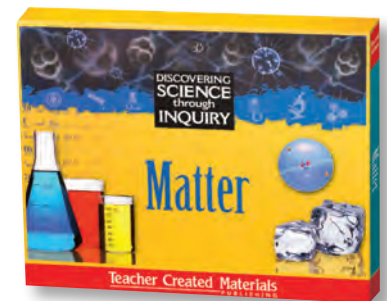
Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
Grades 6–8	Chemical Interactions Course	Atom, Molecule, Reaction, Oxidation, Element, Solution, Concentration	Physical Science Readers (3.8–4.9) Unit 1: <i>Inside the World of Matter</i> and <i>Max Planck: Uncovering the World of Matter</i> Unit 2: <i>Investigating the Chemistry of Atoms</i> and <i>Marie Curie: Pioneering Physicist</i> Unit 8: <i>The World of Elements and Their Properties</i> and <i>Antoine Lavoisier: Founder of Modern Chemistry</i>	Basics of Matter (1.1–1.2) Gases <i>Evaporation Solids Melting and Freezing Liquids Condensation</i>	Matter Lesson 1: What Is an Atom? Lesson 2: What Are Molecules? Lesson 3: Solids Lesson 4: Liquids Lesson 5: Gases Lesson 6: Melting and Freezing Lesson 7: Evaporating and Condensing Lesson 8: Mass and Weight Lesson 9: Conservation of Matter Lesson 10: Changes in State Lesson 11: Physical Properties Lesson 12: Chemical Properties Lesson 13: Solubility Lesson 14: Density Lesson 15: Boiling and Melting Lesson 16: Separating Substances	
Grades 6–8	Force and Motion Course	Force, Motion, Acceleration, Velocity, Change, Gravity, Mass, Linear, Rotation, Cycle, Technology	Physical Science Readers (3.9–4.9) Unit 3: <i>All About Energy</i> and <i>Albert Einstein: Gentle Genius</i> Unit 4: <i>Investigating Forces and Motion</i> and <i>Isaac Newton and the Laws of the Universe</i> Unit 6: <i>All About Mechanical Engineering</i> and <i>Making It Go: The Life and Work of Robert Fulton</i>	Forces and Motion (2.5–3.5) <i>Bikes and Boards Climbing and Diving How Toys Work How Amusement Parks Work Vehicles—The Quest for Speed Individual Sports—The Quest for Personal Best</i>	Forces and Motion Lessons 1–13	Fluent Kit (3.0–3.4) <i>Planes and How They Work Trains and How They Work Airplanes and How They Work</i>



All About Energy, Science Readers: Physical Science



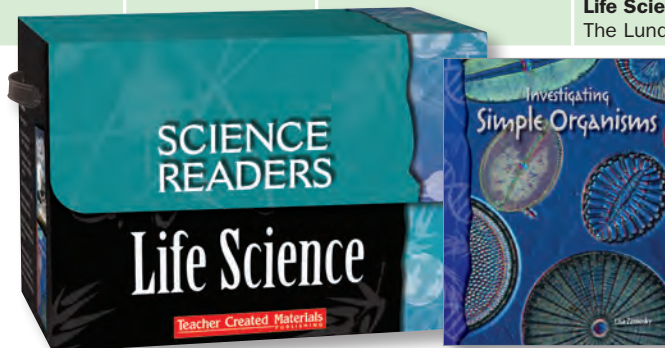
All About Energy, Science Readers: Physical Science



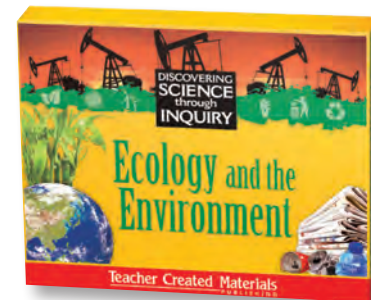
Discovering Science through Inquiry: Forces and Motion Grades 3–8

Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
LIFE SCIENCE						
Grades 3–4	Structures of Life Module	Fruit, Seed, Change, Property, Growth, Organism, Crayfish, Structure, Behavior, Habitat, Territory	<p>Life Science Readers (3.8–4.9) Unit 4: <i>The World of Plants and George Washington Carver: Agriculture Pioneer</i> Unit 5: <i>Inside Ecosystems and Biomes and Pioneering Ecologists</i> Unit 6: <i>The World of Animals and Jane Goodall: Animal Scientist and Friend</i></p> <p>Life Science Futures Channel DVD Forest Rangers</p>	<p>Biomes and Ecosystems (2.4–3.5) <i>Rainforests</i> <i>Forests</i> <i>Ponds</i> <i>Wetlands</i> <i>Oceans</i> <i>Deserts</i></p>	<p>Biomes and Ecosystems Lesson 5: Habitats Lesson 6: Living Things Lesson 7: Plants Lesson 8: Animals</p> <p>Living Organisms Lesson 1: Heredity Lesson 2: Adaptations Lesson 3: The Senses Lesson 4: Camouflage Lesson 5: Hibernation Lesson 6: Seed to Tree Lesson 7: Carnivores Lesson 8: Herbivores Lesson 9: Omnivores Lesson 10: Development Lesson 11: Living Organisms Across the Seasons Lesson 12: Grouping Plants Lesson 13: Animal Movement Lesson 14: Regeneration Lesson 15: Grouping Animals Lesson 16: Decomposition</p> <p>Earth Systems and Cycles Lesson 10: Animal Life Lesson 11: Plant Life Cycles</p>	<p>Fluent Kit (3.0-3.4) <i>Invertebrates</i></p> <p>Fluent Plus Kit (3.5-3.9) <i>The Five Senses</i> <i>The Human Life Cycle</i> <i>Jane Goodall</i></p>
Grades 3–4	Human Body Module	Human skeleton, Joint, Bone, Contraction, Articulation, Movement, Muscle structure/function, Coordination, Reaction time, Stimulus, Response	<p>Life Science Readers (3.8–4.9) Unit 6: <i>The World of Animals and Jane Goodall: Animal Scientist and Friend</i> Unit 7: <i>Investigating the Human Body and Hippocrates: Making the Way for Medicine</i></p> <p>Life Science Futures Channel DVD Testing the Robotic Arms</p>	<p>Forces and Motion (2.5–3.4) <i>Bikes and Boards</i> <i>Climbing and Diving</i> <i>The Quest for Personal Best/Individual Sports</i></p> <p>The Human Body (1.0–2.0) <i>Heart</i> <i>Lungs</i> <i>Brain</i> <i>Senses</i> <i>Bones</i> <i>Muscles</i></p>	<p>Living Organisms Lesson 1: Heredity Lesson 3: The Senses</p>	<p>Early Fluent Plus Kit (2.5-2.9) <i>The Brain</i> <i>The Skeleton and Muscles</i> <i>The Heart and Lungs</i></p> <p>Fluent Plus Kit (2.5-3.9) <i>The Senses</i> <i>The Digestive System</i> <i>The Human Life Cycle</i></p>

Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
Grades 5–6	Environment Module	Environment, Organism, Optimum, Environmental factor, Tolerance, Preferred environment, Range	Life Science Readers (3.8–4.7) Unit 3: <i>Investigating Simple Organisms</i> and <i>Louis Pasteur and the Fight Against Germs</i> Unit 4: <i>The World of Plants</i> and <i>George Washington Carver: Agriculture Pioneer</i> Unit 5: <i>Inside Ecosystems and Biomes</i> and <i>Pioneering Ecologists</i>		Biomes and Ecosystems Lesson 1: Biomes Lesson 2: Aquatic Biomes Lesson 3: Terrestrial Biomes Lesson 4: Ecosystems Lesson 5: Habitats Ecology and the Environment Lesson 1: What is an Environment? Lesson 6: Natural Resources Lesson 7: Renewable Resources Lesson 8: Non Renewable Resources Lesson 9: What Are the 3 R's? Lesson 10: Water Pollution Lesson 11: Water Pollution Lesson 12: Global Warming Lesson 13: Acid Rain Lesson 14: Industry and the Environment Lesson 15: Preservation Lesson 16: Conservation Earth Systems and Cycles Lesson 12: Nitrogen Cycle Lesson 13: Carbon Cycle	Fluent Plus Kit (3.5-3.9) <i>African Grasslands</i> <i>Chesapeake Bay Wetlands</i> <i>Death Valley Desert</i>
			Earth and Space Science Readers (3.8–4.9) <i>Spaceship Earth</i> <i>Rachel Carson: Nature's Guardian</i>			
Grades 5–6	Food and Nutrition Module	Acid, Nutrient, Nutrition, Carbohydrate, Indicator, Fat, Calorie, Metabolism, Chemical reaction	Life Science Readers (3.8–4.9) Unit 1: <i>Looking Inside Cells</i> and <i>Early Cell Scientists: Identifying Cells</i> Unit 3: <i>Investigating Simple Organisms</i> and <i>Louis Pasteur and the Fight Against Germs</i> Unit 7: <i>Investigating the Human Body</i> and <i>Hippocrates: Making the Way for Medicine</i>			Fluent Kit (3.0-3.4) <i>Breakfast Around the World</i> <i>Inventions in the Food Industry</i>
			Life Science Futures Channel DVD Forest Rangers Growing Bugs Life Under the Ocean			Fluent Plus Kit (3.5-3.9) <i>The Digestive System</i> <i>The Human Life Cycle</i>
			Life Science Futures Channel DVD The Lundberg Farms			

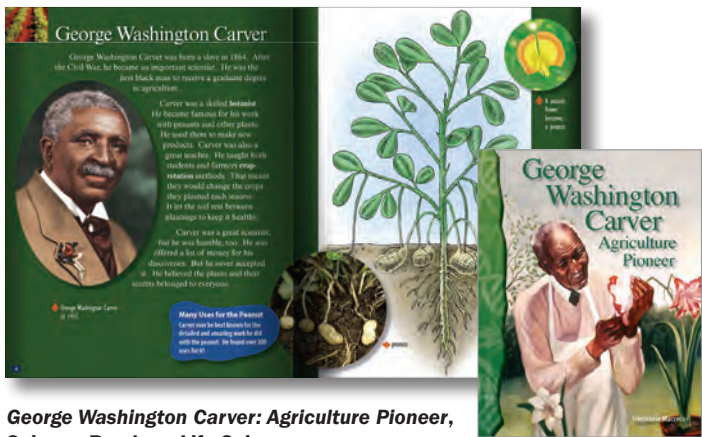


Investigating Simple Organisms,
Science Readers: Life Science

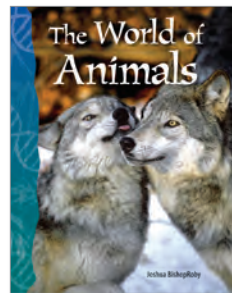


Discovering Science
through Inquiry:
Ecology and the
Environment
Grades 5–6

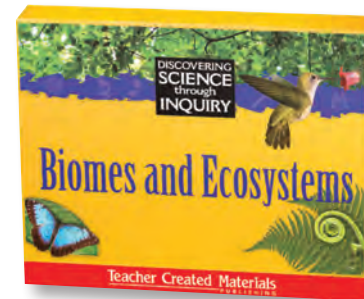
Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
LIFE SCIENCE (cont.)						
Grades 6–8	Diversity of Life Course	Cell, Tissue, Organism, Structure, Function, Behavior, Adaptation, System, Interaction	Life Science Readers (3.8–4.9) Unit 1: <i>Looking Inside Cells and Early Cell Scientists: Identifying Cells</i> Unit 2: <i>All About Mitosis and Meiosis and Pioneers in Cell Biology</i> Unit 4: <i>The World of Plants and George Washington Carver: Agriculture Pioneer</i> Unit 6: <i>The World of Animals and Jane Goodall: Animal Scientist and Friend</i>		Biomes and Ecosystems Lesson 6: Living Things Lesson 7: Plants Lesson 8: Animals Lesson 13: Adaptation Lesson 14: Symbiosis Lesson 15: Parasites Lesson 16: Destruction Living Organisms Lesson 1: Heredity Lesson 2: Adaptations Lesson 3: The Senses Lesson 4: Camouflage Lesson 5: Hibernation Lesson 6: Seed to Tree Lesson 7: Carnivores Lesson 8: Herbivores Lesson 9: Omnivores Lesson 10: Development Lesson 11: Living Organisms Across the Seasons Lesson 12: Grouping Plants Lesson 13: Animal Movement Lesson 14: Regeneration Lesson 15: Grouping Animals Lesson 16: Decomposition	



George Washington Carver: Agriculture Pioneer, Science Readers: Life Science

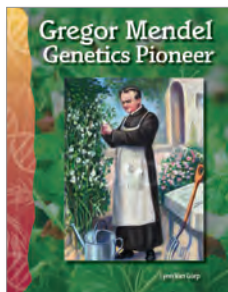


The World of Animals, Science Readers: Life Science

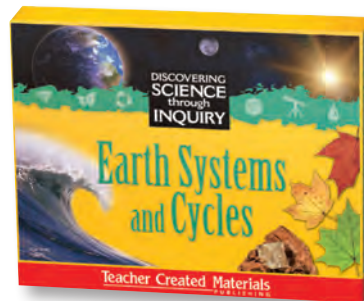


Discovering Science through Inquiry: Biomes and Ecosystems Grades 6–8

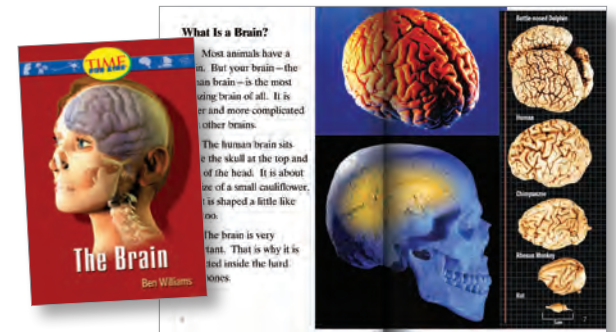
Grades 3–8	FOSS Courses/ Modules	Science Concepts	Science Readers (Interest Level Grades 3–12)	Science Readers: A Closer Look (Interest Level Grades 2–6)	Discovering Science Through Inquiry (Interest Level Grades 3–8)	Nonfiction Readers (Interest Level Grades K–6)
Grades 6–8	Populations and Ecosystems Course	Species, Population, Ecosystem, Food chain, Genetics, Trait, Natural selection	<p>Life Science Readers (3.8–4.9) Unit 3: <i>Investigating Simple Organisms</i> and <i>Louis Pasteur and the Fight Against Germs</i> Unit 4: <i>The World of Plants</i> and <i>George Washington Carver: Agriculture Pioneer</i> Unit 5: <i>Inside Ecosystems and Biomes</i> and <i>Pioneering Ecologists</i> Unit 6: <i>The World of Animals</i> and <i>Jane Goodall: Animal Scientist and Friend</i> Unit 8: <i>The World of Genetics</i> and <i>Gregor Mendel: Genetics Pioneer</i></p> <p>Life Science Futures Channel DVD Bats Growing Bugs Healing Injured Wild Animals</p>	<p>Biomes and Ecosystems (2.4–3.5) Rainforests Oceans Deserts Wetlands Forests Ponds</p>	<p>Biomes and Ecosystems Lesson 4: Ecosystems Lesson 6: Living Things Lesson 7: Plants Lesson 8: Animals Lesson 9: Predator and Prey Lesson 10: Food Chain Lesson 11: Food Web Lesson 12: Energy Pyramid Living Organisms Lesson 1: Heredity Lesson 2: Adaptations Ecology and the Environment Lesson 2: What is Ecology? Lesson 3: Endangered Species Lesson 4: Overpopulation Lesson 5: Extinction Earth Systems and Cycles Lesson 12: Nitrogen Cycle Lesson 13: Carbon Cycle Lesson 15: Energy Cycle</p>	
Grades 6–8	Human Brain and Senses Course	Structure/Function, Perception, Stimulus/Response, Receptor, Neuron Learning	<p>Life Science Readers (3.8–4.9) Unit 5: <i>Inside Ecosystems and Biomes</i> and <i>Pioneering Ecologists</i> Unit 6: <i>The World of Animals</i> and <i>Jane Goodall: Animal Scientist and Friend</i></p> <p>Earth and Space Science Readers (3.8–4.9) Unit 5: /</p>		<p>Living Organisms Lesson 3: The Senses</p>	<p>Early Fluent Plus Kit (2.5-2.9) <i>The Brain</i> Fluent Plus Kit (3.5-3.9) <i>The Five Senses</i></p>



Gregor Mendel,
Science Readers: Life Science



Discovering Science
through Inquiry:
Earth Systems and Cycles
Grades 6–8



The Brain,
Nonfiction Readers: Early Fluent Plus Kit