## FOSS Correlations
### Grades K–2

**EARTH AND SPACE SCIENCE**

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<th>Grades K–2</th>
<th>FOSS Courses/Modules</th>
<th>Science Concepts</th>
<th>Science Readers: A Closer Look (Interest Level Grades 2–6)</th>
<th>Nonfiction Readers (Interest Level Grades K–6)</th>
<th>Early Childhood Themes (Interest Level Grades Pre·K–3)</th>
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</thead>
<tbody>
<tr>
<td>Kindergarten</td>
<td>Wood and Paper Module, Fabric Module</td>
<td>Materials, Structures, Change</td>
<td><strong>Emergent Kit (1.0–1.4)</strong> Land</td>
<td><strong>Early Fluent Plus Kit (2.5–2.9)</strong> Our Earth</td>
<td><strong>Early Fluent Kit (2.0–2.4)</strong> Mexico, The Caribbean, Earthquakes, Tornadoes and Hurricanes, Volcanoes, All About Hand-Blown Glass</td>
</tr>
<tr>
<td>Grades 1–2</td>
<td>Pebbles, Sand, and Silt Module</td>
<td>Earth, Material, Rock, Mixture, Particles, Soil</td>
<td><strong>Emergent Kit (1.0–1.4)</strong> Places to Go Land Water</td>
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<td><strong>Early Fluent Plus Kit (2.5–2.9)</strong> In the Desert, In the Rainforest, Our Earth, Outer Space, The Solar System</td>
</tr>
<tr>
<td>Grades 1–2</td>
<td>Air and Weather Module</td>
<td>Earth, Material, Rock, Mixture, Particles, Soil</td>
<td><strong>Emergent Kit (1.0–1.4)</strong> Places to Go Weather Water</td>
<td><strong>Early Fluent Plus Kit (2.5–2.9)</strong> In the Forest, In the Desert, In the Rainforest, Our Earth, Outer Space</td>
<td><strong>Weather Kit (Pre-K–2) (Available English &amp; Spanish)</strong></td>
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**Science Readers:** *The Itsy Bitsy Spider, Early Childhood Themes: Weather*
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<td><strong>PHYSICAL SCIENCE</strong></td>
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| 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)** Things to Make | Early Fluent Plus Kit (2.5-2.9) In the Rainforest Our Earth |

| Grades 1–2 | Balance and Motion Module | Balance, Balance point, Mobile, Stability, Motion, Rotate, Disk, Wheel motion, Roll, Slope, Spin, Axle, Sphere | **Upper Emergent Kit (1.5-1.9)** Keeping Fit with Sports | Early Fluent Plus Kit (2.5-2.9) The Skeleton and Muscles Travel in the U.S.A. Then and Now |

| 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)** | **Emergent Kit (1.0-1.4)** Water | **Fluent Plus Kit (3.5-3.9)** Earth’s Seasons and Cycles |

**Science Readers: A Closer Look**
- Forces and Motion
- Basics of Matter

**Nonfiction Readers:**
- For Reading Level Comparison Charts: http://www.teachercreatedmaterials.com/readinglevels

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

**Books and Kits:**
- *How Plants Grow*, Nonfiction Readers: Emergent Kit
- *In the Forest*, Nonfiction Readers: Upper Emergent Kit
- *Sea Life*, Early Childhood Themes: Plants

For Reading Level Comparison Charts: [http://www.teachercreatedmaterials.com/readinglevels](http://www.teachercreatedmaterials.com/readinglevels)
# FOSS Correlations

**Grades 3–8**

## EARTH AND SPACE SCIENCE

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<tr>
<td><strong>Grades 3–4</strong></td>
<td>Earth Materials Module</td>
<td>Earth material, Crystal, Geology, Mineral, Rock, Property,</td>
<td>Earth and Space Science Readers (3.8–4.9) Unit 2: The World of Rocks and Minerals and The First Geologists</td>
<td>Forces in Nature (2.4–3.4) Earthquakes Volcanoes</td>
<td>Emergent Kit (1.0–1.4) Land</td>
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<td>Unit 5: Investigating Plate Tectonics and Alfred Wegener: Uncovering Plate Tectonics</td>
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<td>Early Fluent Kit (2.0–2.4) Earthquakes</td>
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<td>Early Fluent Plus Kit (2.5–2.9) Our Earth</td>
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<tr>
<td><strong>Grades 3–4</strong></td>
<td>Water Module</td>
<td>Change, Cycle, Condensation, Earth material, Evaporation, Liquid, Solid, Property, Surface tension</td>
<td>Earth and Space Science Readers (3.8–4.5) Unit 3: Inside the Water Cycle and Water Scientists</td>
<td>Forces in Nature (3.5) Floods and Blizzards Biomes and Ecosystems (2.4–2.5) Wetlands Oceans Ponds</td>
<td>Forces in Nature Lesson 1: Floods Lesson 6: Snowstorms</td>
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<td>Emergent Kit (1.0–1.4) Weather Water</td>
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<td>Early Fluent Kit (2.0–2.4) Tornadoes and Hurricanes</td>
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<td>Unit 5: Investigating Plate Tectonics and Alfred Wegener: Uncovering Plate Tectonics</td>
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<td>Fluent Plus Kit (3.5–3.9) African Grasslands Chesapeake Bay Wetlands Death Valley Desert</td>
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<td>Unit 8: Spaceship Earth and Rachel Carson: Nature’s Guardian</td>
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<td>Unit 3: Inside the Water Cycle and Water Scientists</td>
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## For Reading Level Comparison Charts:
http://www.teachercreatedmaterials.com/readinglevels
## EARTH AND SPACE SCIENCE (cont.)

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<td>Unit 7: The Wonder of Outer Space and From Hubble to Hubble: Astronomers and Outer Space</td>
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<td>Earth and Space Science Futures Channel DVD Communications Satellites Eyes on the Universe: Looking Into Time</td>
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<td>Eyes on the Universe: Planetary Systems Eyes on the Universe: What’s Next Searching for Water on Mars</td>
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<td>Earth and Space Science Readers (3.8–4.9) Unit 2: The World of Rocks and Minerals and The First Geologists Unit 4: Investigating Landforms and Pioneers of Earth Science Unit 5: Investigating Plate Tectonics and Alfred Wegener; Uncovering Plate Tectonics</td>
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<td>Earth and Space Science Readers (3.8–4.7) Unit 1: Investigating Storms and Weather Scientists Unit 3: Inside the Water Cycle and Water Scientists Unit 4: Investigating Landforms and Pioneers of Earth Science</td>
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<td>Earth and Space Science Readers (2.4) Volcanoes (Page 27 Mars)</td>
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### From Hubble to Hubble: Astronomers and Outer Space

- **The Wonders of Outer Space**
- **From Hubble to Hubble: Astronomers and Outer Space**

### Discovering Science through Inquiry: Forces in Nature

- **Forces in Nature**
  - Lesson 1: Floods
  - Lesson 2: Tornadoes
  - Lesson 4: Hurricanes
  - Lesson 6: Snowstorms
  - Lesson 7: Wildfires
  - Lesson 8: Landslides

### For Reading Level Comparison Charts: http://www.teachercreatedmaterials.com/readinglevels
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<td>Physical Science Futures Channel DVD Making Sparks 1</td>
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<td>Grades 3–4</td>
<td>Physics of Sound Module</td>
<td>Sound discrimination, Code, Sound receiver, Sound source, Vibration, Sound, Travel, Pitch</td>
<td>Physical Science Readers (3.9–4.9) Unit 7: All About Light and Sound and Pioneers of Light and Sound</td>
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<td>Physical Science Futures Channel DVD Concert Acoustics</td>
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For Reading Level Comparison Charts: http://www.teachercreatedmaterials.com/readinglevels
### PHYSICAL SCIENCE (cont.)

|------------|-----------------------|------------------|---------------------------------------------|--------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|

#### PHYSICAL SCIENCE

**Grades 5–6**

- **Mixtures and Solutions Module**

#### Forces and Motion (2.5)

- **How Amusement Parks Work**
- **How Toys Work**

**Physical Science Readers** (3.9–4.9)

- **Unit 4: Investigating Forces and Motion and Isaac Newton and the Laws of the Universe**
- **Unit 6: All About Mechanical Engineering and Making It Go: The Life and Work of Robert Fulton**

**Forces and Motion**

- **How Amusement Parks Work**
- **How Toys Work**

---

**Velocity and Acceleration**

- Another way to measure motion is called velocity (vuh-LOS-uh-tee). 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-sel-uh-RAY-shuhn). 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-sel-uh-REY-shuhn).

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**Fastest Roller Coasters**

- **1. Ring Racer** 217 kph/135 mph Nürburgring, Rhineland-Palatinate, Germany
- **2. Kingda Ka** 206 kph/128 mph Six Flags Great Adventure, New Jersey, U.S.A.
- **3. Top Thrill Dragster** 193 kph/120 mph Cedar Point, Ohio, U.S.A.
- **4. Dodonpa** 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

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

**Physical Science Futures Channel DVD**
- Making Sparks 1
- Making Sparks 2
- Solar Powered Cars

**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

For Reading Level Comparison Charts: http://www.teachercreatedmaterials.com/readinglevels
### FOSS Correlations Grades 3–8

#### FOSS Courses/Modules

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<td>FOSS Courses/Modules</td>
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#### Science Readers (Interest Level Grades 3–12)

**Physical Science Readers** (3.8–4.9)
- Unit 1: Inside the World of Matter and Max Planck: Uncovering the World of Matter
- Unit 2: Investigating the Chemistry of Atoms and Marie Curie: Pioneering Physicist
- Unit 8: The World of Elements and Their Properties and Antoine Lavoisier: Founder of Modern Chemistry

#### 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: Inside the World of Matter and Max Planck: Uncovering the World of Matter
- Unit 2: Investigating the Chemistry of Atoms and Marie Curie: Pioneering Physicist
- Unit 8: The World of Elements and Their Properties and Antoine Lavoisier: Founder of Modern Chemistry

**Basics of Matter** (1.1–1.2)
- Gases
  - Evaporation
  - Melting and Freezing
- Liquids
  - Condensation

#### 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: All About Energy and Albert Einstein: Gentle Genius
- Unit 4: Investigating Forces and Motion and Isaac Newton and the Laws of the Universe
- Unit 6: All About Mechanical Engineering and Making It Go: The Life and Work of Robert Fulton

**Forces and Motion (2.5–3.5)**
- 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

**Fluent Kit (3.0–3.4)**
- Planes and How They Work
- Trains and How They Work
- Airplanes and How They Work

### Solar Energy

The sun gives energy in the form of solar power. To use solar power, solar cells change light into electricity. Or, solar water heating can use the sun's heat to warm water in glass panels. Water is pumped through pipes in the panels. Solar power works best where there is a lot of sunshine. A good thing about solar energy is that sunlight is free. Unfortunately, the solar panels are not. The cost of building solar power stations is very high. After the stations are built, solar power is one of the cheapest energy sources available.

#### How to Help

Want to know how you can make a difference in energy use? Start with your school. Schools in large cities waste up to 25 percent of their energy. You can help by talking with your teacher, counselor, or principal about an energy audit. In an energy audit, students review the energy used. They do it by walking through the school and making notes. You look for lights left on when not needed. You look for windows and doors left open or not sealed, letting heat or air-conditioned cold escape. You look for appliances or lights that waste energy through age or design. Do this as a service project and make a big difference!

#### Sunburn

Have you ever used a magnifying glass to make something melt or burn? You were using solar power! (Don't try this without adult supervision!)

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For Reading Level Comparison Charts: http://www.teachercreatedmaterials.com/readinglevels

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</table>
| Grades 3–4 | Structures of Life Module | Fruit, Seed, Change, Property, Growth, Organism, Crayfish, Structure, Behavior, Habitat, Territory | **Life Science Readers** (3.8–4.9)  
Unit 4: The World of Plants and George Washington Carver: Agriculture Pioneer  
Unit 5: Inside Ecosystems and Biomes and Pioneering Ecologists  
Unit 6: The World of Animals and Jane Goodall: Animal Scientist and Friend | **Biomes and Ecosystems** (2.4–3.5)  
Rainforests  
Forests  
Ponds  
Wetlands  
Oceans  
Deserts | **Biomes and Ecosystems**  
Lesson 5: Habitats  
Lesson 6: Living Things  
Lesson 7: Plants  
Lesson 8: Animals | **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 | **Fluent Kit** (3.0-3.4)  
Invertebrates |
|           |                      |                  |                                              |                                                  |                                                  |                                               |
| Grades 3–4 | Human Body Module    | Human skeleton, Joint, Bone, Contraction, Articulation, Movement, Muscle structure/function, Coordination, Reaction time, Stimulus, Response | **Life Science Futures Channel DVD**  
Forest Rangers | **Forces and Motion** (2.5–3.4)  
Bikes and Boards  
Climbing and Diving  
The Quest for Personal Best/Individual Sports  
The Human Body (1.0–2.0)  
Heart  
Lungs  
Brain  
Senses  
Bones  
Muscles | **Living Organisms**  
Lesson 1: Heredity  
Lesson 3: The Senses | **Early Fluent Plus Kit** (2.5-2.9)  
The Brain  
The Skeleton and Muscles  
The Heart and Lungs  
**Fluent Plus Kit** (2.5-3.9)  
The Senses  
The Digestive System  
The Human Life Cycle |
|------------|-----------------------|------------------|---------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------|
| **Grades 5–6** | Environment Module | Environment, Organism, Optimum, Environmental factor, Tolerance, Preferred environment, Range | **Life Science Readers** (3.8–4.7)  
Unit 3: Investigating Simple Organisms and Louis Pasteur and the Fight Against Germs  
Unit 4: The World of Plants and George Washington Carver: Agriculture Pioneer  
Unit 5: Inside Ecosystems and Biomes and Pioneering Ecologists | **Earth and Space Science Readers** (3.8–4.9)  
Spaceship Earth  
Rachel Carson: Nature’s Guardian | **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)  
African Grasslands  
Chesapeake Bay Wetlands  
Death Valley Desert |
| **Grades 5–6** | Food and Nutrition Module | Acid, Nutrient, Nutrition, Carbohydrate, Indicator, Fat, Calorie, Metabolism, Chemical reaction | **Life Science Futures Channel DVD**  
Forest Rangers  
Growing Bugs  
Life Under the Ocean | **Life Science Readers** (3.8–4.9)  
Unit 1: Looking Inside Cells and Early Cell Scientists: Identifying Cells  
Unit 3: Investigating Simple Organisms and Louis Pasteur and the Fight Against Germs  
Unit 7: Investigating the Human Body and Hippocrates: Making the Way for Medicine | **Fluent Kit** (3.0–3.4)  
Breakfast Around the World  
Inventions in the Food Industry | **Fluent Plus Kit** (3.5–3.9)  
The Digestive System  
The Human Life Cycle |
| **Grades 5–6** | Forest Rangers | | **Life Science Futures Channel DVD**  
The Lundberg Farms | | **Fluent Kit** (3.0–3.4)  
Breakfast Around the World  
Inventions in the Food Industry | |
### Grades 3–8

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<th><strong>FOSS Courses/Modules</strong></th>
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**The World of Animals, Science Readers: Life Science**

**Discovering Science through Inquiry: Biomes and Ecosystems Grades 6–8**
### Grades 3–8

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| **Grades 6–8**  
Populations and Ecosystems Course | Species, Population, Ecosystem, Food chain, Genetics, Trait, Natural selection | Life Science Readers (3.8–4.9)  
Unit 3: Investigating Simple Organisms and Louis Pasteur and the Fight Against Germs  
Unit 4: The World of Plants and George Washington Carver: Agriculture Pioneer  
Unit 5: Inside Ecosystems and Biomes and Pioneering Ecologists  
Unit 6: The World of Animals and Jane Goodall: Animal Scientist and Friend  
Unit 8: The World of Genetics and Gregor Mendel: Genetics Pioneer | Biomes and Ecosystems  
(2.4–3.5)  
Rainforests  
Oceans  
Deserts  
Wetlands  
Forests  
Ponds | 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 |
| **Grades 6–8**  
Human Brain and Senses Course | Structure/Function, Perception, Stimulus/Response, Receptor, Neuron Learning | Life Science Readers (3.8–4.9)  
Unit 5: Inside Ecosystems and Biomes and Pioneering Ecologists  
Unit 6: The World of Animals and Jane Goodall: Animal Scientist and Friend | Earth Science Futures Channel DVD  
Bats  
Growing Bugs  
Healing Injured Wild Animals | Living Organisms  
Lesson 3: The Senses | Early Fluent Plus Kit (2.5-2.9)  
The Brain  
Fluent Plus Kit (3.5-3.9)  
The Five Senses |