

**New York State Science Standards**  
 Correlated to  
**Reading Essentials in Science**  
**Grades K-4**

<b>Science Standards</b>	<b>Reading Essentials in Science Titles</b>
<b>Physical Setting</b>	
<b>Standard 1</b> The Earth and celestial phenomena can be described by principles of relative motion and perspective.	
	The Moon; (Item: 23220); LEX 760, GRL Q/R, RL 4.6 The Solar System; (Item: 23221); LEX 800, GRL R, RL 4.6  The Earth; (Item: 23219); LEX 820, GRL Q, RL 5.3  The Sun; (Item: 23223); LEX 780, GRL R, RL 5.7
<b>Standard 2</b> Many of the phenomena that we observe on Earth involve interactions among components of air, water, and land.	
	Erosion; (Item: 62030); LEX 860, GRL S/T, RL 5.9  Forecasting; (Item: 62031); LEX 900, GRL S, RL 6  Tornadoes; (Item: 23202); LEX 910, GRL T, RL 6.3  Earth Movements; (Item: 23204); LEX 820, GRL R, RL 5.6  Soil Science; (Item: 23207); LEX 820, GRL Q/R, RL 5.5  Water, Water, Everywhere; (Item: 23205); LEX 850, GRL Q, RL 5.5  What’s Up with the Weather? A Look at Climate; (Item: 23208); LEX 870, GRL Q/R, RL 5.5  Air and Wind; (Item: 23206); LEX 770, GRL R, RL 5.1  Changing Shorelines; (Item: 24766); LEX 1050, GRL U, RL 7  Divides and Watersheds; (Item: 24765); LEX 1110, GRL U, RL 7  The Earth’s Atmosphere; (Item: 24764); LEX 970,

<p><b>Standard 2, continued</b>  Many of the phenomena that we observe on Earth involve interactions among components of air, water, and land.</p>	<p>GRL U, RL 7.2  Oceanography; (Item: 24763); LEX 970, GRL U, RL 7.6</p> <p>A Home by the River; (Item: 23225); LEX 840, GRL M/N, RL 5.9</p> <p>Tropical Rain Forests; (Item: 62060); LEX 930, GRL Q, RL 6.3</p> <p>Oceans; (Item: 62058); LEX 810, GRL Q/R, RL 6.1</p> <p>Rivers; (Item: 62059); LEX 920, GRL Q, RL 6.7</p> <p>Wild Weather; (Item: 24203); LEX 580, GRL J/K</p> <p>Ice Maker, Ice Breaker; (Item: 24191); LEX 740, GRL N/O</p> <p>Dirt Under Your Feet (and Fingernails); (Item: 24170); LEX 510, GRL I/J</p> <p>Can You See the Wind?; (Item: 24169); LEX 380, GRL G/H</p> <p>Technology and Natural Disasters; (Item: 24853); LEX 680, GRL I/J</p> <p>Motion in Space; (Item: 24602); LEX 590, GRL J/K</p> <p>Water All Around; (Item: 24201); LEX 520, GRL N/O</p> <p>Caves; (Item: 24843); LEX 490, GRL G/H</p> <p>Environmental Disasters; (Item: 24211); LEX 700, GRL L/M</p> <p>Hurricane Fury; (Item: 24844); LEX 600, GRL I/J</p> <p>Water; (Item: 24157); LEX 260, GRL C/D</p>
<p><b>Standard 3</b>  Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity</p>	
	<p>Mysteries in Space: Cosmic Puzzles; (Item: 62038); LEX 950, GRL X, RL 7.7</p> <p>Classifying/Grouping Materials; (Item: 23239); LEX 810, GRL R, RL 5.4</p> <p>States of Matter; (Item: 23243); LEX 860, GRL R, RL 5.5</p>

<p><b>Standard 3, continued</b> Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.</p>	<p>Measuring Matter; (Item: 23242); LEX 800, GRL R, RL 5.1</p> <p>Newton’s Laws of Motion; (Item: 24770); LEX 950, GRL Y, RL 6.7</p> <p>Physical and Chemical Properties and Changes; (Item: 24768); LEX 940, GRL Y, RL 7</p> <p>The Periodic Table of Elements; (Item: 24767); LEX 1000, GRL Y, RL 7.8</p> <p>Heat; (Item: 62042); LEX 770, GRL T, RL 5.5</p> <p>Chemical Reactions; (Item: 23217); LEX 980, GRL Z, RL 7.2</p> <p>Chemical Energy; (Item: 23214); LEX 930, GRL Z, RL 6.8</p> <p>Matter Matters; (Item: 24193); LEX 520, GRL J/K</p> <p>Describe It; (Item: 24604); LEX 510, GRL L/M</p> <p>What Is Missing?; (Item: 24850); LEX 480, GRL I/J</p>
<p><b>Standard 4</b> Energy exists in many forms, and when these forms change energy is conserved.</p>	
	<p>Measuring Matter; (Item: 23242); LEX 800, GRL R, RL 5.1</p> <p>Electrical Circuits; (Item: 23245); LEX 880, GRL Q, RL 6.9</p> <p>Atomic Energy; (Item: 24771); LEX 950, GRL Y/Z, RL 7.3</p> <p>Heat; (Item: 62042); LEX 770, GRL T, RL 5.5</p> <p>Electricity and Magnetism; (Item: 62041); LEX 810, GRL U, RL 5.2</p> <p>Light; (Item: 62043); LEX 830, GRL T/U, RL 5.8</p> <p>Motion; (Item: 62044); LEX 770, GRL T, RL 5.1</p> <p>Sound; (Item: 62045); LEX 720, GRL U, RL 4.8</p> <p>Chemical Energy; (Item: 23214); LEX 930, GRL Z, RL 6.8</p> <p>Cell Processes; (Item: 24752); LEX 1000, GRL X, RL 7.6</p>

<p><b>Standard 4, continued</b> Energy exists in many forms, and when these forms change energy is conserved.</p>	<p>Turn That Down!; (Item: 24603); LEX 610, GRL J/K</p> <p>Reflection; (Item: 24845); LEX 560, GRL F/G</p> <p>Electricity; (Item: 24847); LEX 630, GRL I/J</p> <p>Scream Machines; (Item: 24610); LEX 740, GRL N/O</p> <p>Energy; (Item: 24171); LEX 410, GRL I/J</p>
<p><b>Standard 5</b> Energy and matter interact through forces that result in changes in motion.</p>	
	<p>Inside a Star; (Item: 62036); LEX 850, GRL Y, RL 6</p> <p>Force and Motion; (Item: 23240); LEX 840, GRL R, RL 4.9</p> <p>Newton’s Laws of Motion; (Item: 24770); LEX 950, GRL Y, RL 6.7</p> <p>Forces in Fluids; (Item: 24769); LEX 1030, GRL Y/Z, RL 6.8</p> <p>Electricity and Magnetism; (Item: 62041); LEX 810, GRL U, RL 5.2</p> <p>Motion; (Item: 62044); LEX 770, GRL T, RL 5.1</p> <p>Scream Machines; (Item: 24610); LEX 740, GRL N/O</p> <p>Energy; (Item: 24171); LEX 410, GRL I/J</p> <p>Push and Pull; (Item: 24195); LEX 470, GRL L/M</p>
<p><b>The Living Environment</b></p>	
<p><b>Standard 1</b> Living things are both similar to and different from each other and nonliving things.</p>	
	<p>Fast as a Cheetah, Slow as a Sloth; (Item: 24395); LEX 560, GRL G/H</p> <p>Symmetry in Nature; (Item: 24200); LEX 450, GRL J/K</p> <p>Is It Living?; (Item: 24819); LEX BR, GRL A/B</p>

<p><b>Standard 1, continued</b> Living things are both similar to and different from each other and nonliving things.</p>	<p>Shapes in Nature; (Item: 24835); LEX 270, GRL C/D</p> <p>Needs in Nature; (Item: 24839); LEX 750, GRL F/G</p> <p>Who Lives Here?; (Item: 24840); LEX 440, GRL G/H</p>
<p><b>Standard 2</b> Organisms inherit genetic information in a variety of ways that result in continuity of structure and function between parents and offspring.</p>	
	<p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p> <p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Under a Microscope: Small Life; (Item: 23238); LEX 900, GRL V, RL 6.6</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>Disease Prevention; (Item: 62554); LEX 960, GRL R/S, RL 5.8</p> <p>Cell Processes; (Item: 24752); LEX 1000, GRL X, RL 7.6</p> <p>Heredity; (Item: 24754); LEX 990, GRL W, RL 7.5</p>
<p><b>Standard 3</b> Individual organisms and species change over time.</p>	
	<p>Adaptation and Survival; (Item: 62547); LEX 980, GRL X, RL 6.5</p> <p>Staying Alive: Regulation and Behavior; (Item: 62558); LEX 920, GRL X, RL 6.3</p> <p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p>

<p><b>Standard 3, continued</b> Individual organisms and species change over time.</p>	<p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>Animals and Their Babies; (Item: 24820); LEX 370, GRL C/D</p> <p>How Does It Grow?; (Item: 24849); LEX 510, GRL G/H</p> <p>A Butterfly's Life; (Item: 24192); LEX 700, GRL J/K</p> <p>Scaly and Scary; (Item: 24179); LEX 680, GRL I/J</p>
<p><b>Standard 4</b> The continuity of life is sustained through reproduction and development.</p>	
	<p>Energy Sources; (Item: 62061); LEX 970, GRL X/Y, RL 7</p> <p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p> <p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>Classifying Plants and Animals; (Item: 23234); LEX 840, GRL W, RL 6.3</p> <p>Human Reproduction, Growth, and Development; (Item: 24756); LEX 960, GRL W, RL 7.6</p> <p>Animals and Their Babies; (Item: 24820); LEX 370, GRL C/D</p> <p>Freaky Fish; (Item: 24188); LEX 670, GRL L/M</p>

<p><b>Standard 5</b> Organisms maintain a dynamic equilibrium that sustains life.</p>	
	<p>Energy Sources; (Item: 62061); LEX 970, GRL X/Y, RL 7</p> <p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p> <p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>How Plants Grow; (Item: 23236); LEX 810, GRL U/V, RL 4.9</p> <p>A Butterfly's Life; (Item: 24192); LEX 700, GRL J/K</p> <p>Who Lives Here?; (Item: 24840); LEX 440, GRL G/H</p>
<p><b>Standard 6</b> Plants and animals depend on each other and their physical environment.</p>	
	<p>Habitat Destruction; (Item: 62063); LEX 980, GRL X, RL 7</p> <p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p> <p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>How Plants Grow; (Item: 23236); LEX 810, GRL U/V, RL 4.9</p> <p>Food Chains and Webs; (Item: 23235); LEX 890, GRL V, RL 6.1</p>

<p><b>Standard 6, continued</b> Plants and animals depend on each other and their physical environment.</p>	<p>Classifying Plants and Animals; (Item: 23234); LEX 840, GRL W, RL 6.3</p> <p>Oceanography; (Item: 24763); LEX 970, GRL U, RL 7.6</p> <p>At Home in the Tropical Rain Forest; (Item: 23227); LEX 870, GRL M/N, RL 5.4</p> <p>At Home in the Ocean; (Item: 23224); LEX 910, GRL M/N, RL 5.8</p> <p>A Hot Desert Home; (Item: 23226); LEX 850, GRL M/N, RL 5.5</p> <p>A Mountain Home; (Item: 23228); LEX 880, GRL M/N, RL 5.2</p> <p>Tropical Rain Forests; (Item: 62060); LEX 930, GRL Q, RL 6.3</p> <p>Deserts; (Item: 62056); LEX 870, GRL Q, RL 6.2</p> <p>Mountains; (Item: 62057); LEX 930, GRL Q, RL 6.6</p> <p>Oceans; (Item: 62058); LEX 810, GRL Q/R, RL 6.1</p> <p>Mollusks; (Item: 24761); LEX 990, GRL Y, RL 6.9</p> <p>Cnidarians and Worms; (Item: 24760); LEX 970, GRL Y, RL 7.4</p> <p>Arthropods; (Item: 24757); LEX 1000, GRL Y, RL 7</p> <p>Rivers; (Item: 62059); LEX 920, GRL Q, RL 6.7</p> <p>Dinosaurs; (Item: 24209); LEX 490, GRL J/K</p> <p>Things That Sting; (Item: 24210); LEX 720, GRL L/M</p> <p>Night Animals; (Item: 24176); LEX 540, GRL G/H</p> <p>Forming Hypotheses; (Item: 24608); LEX 670, GRL N/O</p> <p>Which One Doesn't Belong?; (Item: 24167); LEX 50, GRL D/E</p> <p>Growing a Pumpkin; (Item: 24841); LEX 640, GRL I/J</p> <p>Rivers; (Item: 24824); LEX 20, GRL D/E</p> <p>Dirt Under Your Feet (and Fingernails); (Item: 24170); LEX 510, GRL I/J</p>
---	---

<p><b>Standard 6, continued</b> Plants and animals depend on each other and their physical environment.</p>	<p>Collecting/Sorting Insects; (Item: 24187); LEX 610, GRL L/M</p> <p>One Plant, Many Parts; (Item: 24821); LEX 280, GRL D/E</p> <p>Our Sun; (Item: 24842); LEX 490, GRL F/G</p> <p>How Does It Grow?; (Item: 24849); LEX 510, GRL G/H</p> <p>Water All Around; (Item: 24201); LEX 520, GRL N/O</p> <p>What Is Missing?; (Item: 24850); LEX 480, GRL I/J</p> <p>A Butterfly's Life; (Item: 24192); LEX 700, GRL J/K</p> <p>Needs in Nature; (Item: 24839); LEX 750, GRL F/G</p> <p>Energy; (Item: 24171); LEX 410, GRL I/J</p> <p>Who Lives Here?; (Item: 24840); LEX 440, GRL G/H</p> <p>Scaly and Scary; (Item: 24179); LEX 680, GRL I/J</p>
<p><b>Standard 7</b> Human decisions and activities have had a profound impact on the physical and living environment.</p>	
	<p>Habitat Destruction; (Item: 62063); LEX 980, GRL X, RL 7</p> <p>Respiratory System; (Item: 62054); LEX 860, GRL U, RL 5.8</p> <p>Erosion; (Item: 62030); LEX 860, GRL S/T, RL 5.9</p> <p>Mammals; (Item: 23213); LEX 820, GRL M, RL 4.5</p> <p>Insects; (Item: 23212); LEX 780, GRL M, RL 4.7</p> <p>Fish; (Item: 23211); LEX 810, GRL M, RL 4.9</p> <p>Birds; (Item: 23210); LEX 780, GRL M, RL 4.1</p> <p>Amphibians and Reptiles; (Item: 23209); LEX 810, GRL N, RL 4.6</p> <p>Floods; (Item: 23200); LEX 890, GRL T, RL 6.1</p> <p>Soil Science; (Item: 23207); LEX 820, GRL Q/R, RL 5.5</p>

<p><b>Standard 7, continued</b> Human decisions and activities have had a profound impact on the physical and living environment.</p>	<p>Water, Water, Everywhere; (Item: 23205); LEX 850, GRL Q, RL 5.5</p> <p>What's Up with the Weather? A Look at Climate; (Item: 23208); LEX 870, GRL Q/R, RL 5.5</p> <p>Life Cycles of Plants and Animals; (Item: 23237); LEX 870, GRL U/V, RL 5.5</p> <p>How Plants Grow; (Item: 23236); LEX 810, GRL U/V, RL 4.9</p> <p>Food Chains and Webs; (Item: 23235); LEX 890, GRL V, RL 6.1</p> <p>Changing Shorelines; (Item: 24766); LEX 1050, GRL U, RL 7</p> <p>Divides and Watersheds; (Item: 24765); LEX 1110, GRL U, RL 7</p> <p>The Earth's Atmosphere; (Item: 24764); LEX 970, GRL U, RL 7.2</p> <p>Paper: From Books to Boxes; (Item: 62048); LEX 780, GRL O, RL 5</p> <p>Textiles: Smooth As Silk or Bumpy As Burlap; (Item: 62050); LEX 750, GRL O, RL 4.1</p> <p>Atomic Energy; (Item: 24771); LEX 950, GRL Y/Z, RL 7.3</p> <p>At Home in the Tropical Rain Forest; (Item: 23227); LEX 870, GRL M/N, RL 5.4</p> <p>A Home by the River; (Item: 23225); LEX 840, GRL M/N, RL 5.9</p> <p>A Hot Desert Home; (Item: 23226); LEX 850, GRL M/N, RL 5.5</p> <p>A Mountain Home; (Item: 23228); LEX 880, GRL M/N, RL 5.2</p> <p>Tropical Rain Forests; (Item: 62060); LEX 930, GRL Q, RL 6.3</p> <p>Deserts; (Item: 62056); LEX 870, GRL Q, RL 6.2</p> <p>Mountains; (Item: 62057); LEX 930, GRL Q, RL 6.6</p> <p>Oceans; (Item: 62058); LEX 810, GRL Q/R, RL 6.1</p> <p>Rivers; (Item: 62059); LEX 920, GRL Q, RL 6.7 LEX 680, GRL I/J</p>
---	---

<p><b>Standard 7, continued</b> Human decisions and activities have had a profound impact on the physical and living environment.</p>	<p>Technology and Natural Disasters; (Item: 24853); Water All Around; (Item: 24201); LEX 520, GRL N/O</p> <p>Environmental Disasters; (Item: 24211); LEX 700, GRL L/M</p>
---	---