



Correlation

Standards of Learning for Virginia

Science

Grade Three

**For more information about this correlation,
a quote or to place an order, please contact:**

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April 2016

**Standards of Learning for Virginia
Science
Grade Three**

The third-grade Standards place increasing emphasis on conducting investigations. Students are expected to be able to develop questions, formulate simple hypotheses, make predictions, gather data, and use the metric system with greater precision. Using information to make inferences and draw conclusions becomes more important. In the area of physical science, the standards focus on simple and compound machines, energy, and a basic understanding of matter. Behavioral and physical adaptations are examined in relation to the life needs of animals. The notion of living systems is further explored in aquatic and terrestrial food chains and diversity in ecosystems. Patterns in the natural world are demonstrated in terms of the phases of the moon, tides, seasonal changes, the water cycle, and animal and plant life cycles. Geological concepts are introduced through the investigation of the components of soil.

Scientific Investigation, Reasoning and Logic

3.1 The student will demonstrate an understanding of scientific reasoning, logic and the nature of science by planning and conducting investigations.

Answer! Analyze Your Data	M/870	978-1-4777-3088-1	42.00	Rosen Classroom
Brady Makes a Weather Graph (Infomax CC Readers)	L/620	978-1-4777-2461-3	42.00	Rosen Classroom
Does This Make Sense? Constructing Explanations	O/740	978-1-4042-4064-3	42.00	Rosen Classroom
Guess! Research and Form a Hypothesis	Q/1030	978-1-4777-3085-0	42.00	Rosen Classroom
Look! Make Observations and Ask Questions	M/870	978-1-4777-3084-3	42.00	Rosen Classroom
Predict! Plan an Experiment	N/900	978-1-4777-3086-7	42.00	Rosen Classroom
Share! Present Your Findings	P/980	978-1-4777-3089-8	42.00	Rosen Classroom
Sorting It Out: Evaluating Data	O/740	978-1-4042-4065-0	42.00	Rosen Classroom
Test! Collect and Document Data	O/960	978-1-4777-3087-4	42.00	Rosen Classroom
What Did You Find Out? Reporting Conclusions	N/690	978-1-4042-4068-1	42.00	Rosen Classroom
What's the Big Idea? Forming Hypotheses	M/570	978-1-4042-4066-7	42.00	Rosen Classroom

Force, Motion and Energy

3.2 The student will investigate and understand simple machines and their uses.

Experiments with Forces and Motion (Cool Science)	M/700	978-1-4339-3461-2	53.70	Gareth Stevens Classroom
From Axes to Zippers: Simple Machines	N	A04135	49.00	Benchmark Education
<i>I Use Simple Machines (My Science Library)</i>	<i>D/310</i>	<i>978-1-61741-930-0</i>	<i>8.95</i>	<i>Rourke Ed Media</i>
Simple Machines	L	978-0-8239-8622-4	33.00	Rosen Classroom
Simple Machines	K/500	A7202	46.00	Benchmark Education

<i>Title</i>	<i>GR / Lexile</i>	<i>ISBN/Code No.</i>	<i>Six-pack Price</i>	<i>Publisher</i>
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Titles in italics are single copy; order six to make a six-pack.

Matter

3.3 The student will investigate and understand that objects are made of materials that can be described by their physical properties.

<i>Matter Comes in All Shapes (My Science Library)</i>	J/320	978-1-61741-941-6	8.95	<i>Rourke Ed Media</i>
Matter Is Everywhere: Solids, Liquids and Gases	L	A46105	52.00	Benchmark Education
Matter: See it, Touch it, Taste it, Smell It	N/420	978-1-4048-1434-9	48.70	Capstone Classroom
Measuring Matter (About the tools used to measure matter.)	O/620	A50706	49.00	Benchmark Education
<i>Melting Matter (My Science Library)</i>	N/560	978-1-61741-954-6	8.95	<i>Rourke Ed Media</i>
Science Lab Tools	K/560	978-1-5081-1322-5	48.00	Rosen Classroom
Solids (Bridges)	J/390	A76881	50.00	Benchmark Education
Solids (Navigators)	N/510	A34794	49.00	Benchmark Education
What Is Matter?	J/380	A7083	46.00	Benchmark Education

Life Processes

3.4 The student will investigate and understand that adaptations allow animals to respond to life needs and respond to the environment.

Adaptation (Organisms Past and Present)	N/480	A46288	56.00	Benchmark Education
An Ocean of Animals (Habitats Around the World) *	J/530	978-1-4296-7155-2	42.70	Capstone Classroom
<i>Animal Adaptations (My Science Library)</i>	F/630	978-1-61471-935-5	8.95	<i>Rourke Ed Media</i>
Animals of the Desert Adapting to Survive	L	978-1-4358-0126-4	42.00	Rosen Classroom
Camouflage: Survival in the Wild *	N	978-1-4358-0154-7	51.00	Rosen Classroom
<i>Hidden in Plain Sight: Animal Camouflage</i>	I/510	978-1-6271-7757-3	8.95	<i>Rourke Educ. Media</i>
Hiding in Deserts (Creature Camouflage)	L/600	978-1-4329-4039-3	48.94	Capstone Classroom
Hiding in Grasslands (Creature Camouflage)	L/670	978-1-4329-4042-3	48.94	Capstone Classroom
Hiding in Mountains (Creature Camouflage)	L/650	978-1-4329-4041-6	48.94	Capstone Classroom
Hiding in Oceans (Creature Camouflage) *	L/600	978-1-4329-4038-6	48.94	Capstone Classroom
Hiding in Rain Forests (Creature Camouflage)	L/640	978-1-4329-4044-7	48.94	Capstone Classroom
Hiding in Wetlands (Creature Camouflage)	L/690	978-1-4329-4043-0	48.94	Capstone Classroom
Life in an Aquarium (Infomax CC Readers)	I/520	978-1-4777-2411-8	42.00	Rosen Classroom
Oceans (Habitat Survival)	O/830	978-1-4109-4616-4	48.94	Capstone Classroom
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
<i>What Do Critters Do in the Winter? (My Science Library)</i>	L/790	978-1-61741-948-5	8.95	<i>Rourke Ed Media</i>
Wings, Shells and Fur: Surviving in the Wild	L/600	978-1-4777-2520-7	42.00	Rosen Classroom

Living Systems

3.5 The student will investigate and understand relationships among organisms in aquatic and terrestrial food chains.

Compost Basics (Science Builders)	K/450	978-1-4296-7112-5	42.70	Capstone Classroom
Hiding in Oceans (Creature Camouflage) *	L/600	978-1-4329-4038-6	48.94	Capstone Classroom
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
The Class Terrarium(Infomax CC Readers)	M/660	978-1-4777-2585-6	42.00	Rosen Classroom
There's a Food Chain in Your Garden! (Infomax CC Readers)	J/530	978-1-4777-2362-3	42.00	Rosen Classroom

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Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
<i>What's On the Food Chain Menu?</i>	<i>K/590</i>	<i>978-1-61741-947-8</i>	<i>8.95</i>	<i>Rourke Ed Media</i>

3.6 The student will investigate and understand that ecosystems support a diversity of plants and animals that share limited resources.

A Tree's Life (Infomax CC Readers)	L/630	978-1-4777-2629-7	42.00	Rosen Classroom
An Ocean of Animals (Habitats Around the World)	J/530	978-1-4296-7155-2	42.70	Capstone Classroom
Exploring the Great Basin	N/670	978-1-4777-2492-7	42.00	Rosen Classroom
Freshwater or Salt Water? (Infomax CC Readers)	K/520	978-1-4777-2373-9	42.00	Rosen Classroom
How Bugs and Plants Live Together	L/560	978-1-5081-1325-6	48.00	Rosen Classroom
Life in a Pond (Nature in Focus)	M	978-1-4339-3413-1	53.70	Gareth Stevens Cl
Life in a Swamp: A Wetlands Habitat	N	978-1-4358-0142-4	42.00	Rosen Classroom
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
There's a Food Chain in Your Garden! (Infomax CC Readers)*	J/530	978-1-4777-2362-3	42.00	Rosen Classroom
Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
What Eats What in a Forest Food Chain	M/540	978-1-4048-7693-4	48.70	Capstone Classroom
What if There Were No Bees?: A Book About the Grassland Ecosystem	N/890	978-1-4048-6428-3	54.70	Capstone Classroom
Who Lives in a Marsh?	M/650	978-1-4777-2580-1	42.00	Rosen Classroom
What Lives in Your Backyard?	O/730	978-1-4777-2609-9	42.00	Rosen Classroom

Interrelationships in Earth/Space Systems

3.7 The student will investigate and understand the major components of soil, its origin and importance to plants and animals including humans

A Close Look at Soil	L/580	978-1-5081-1323-2	48.00	Rosen Classroom
Dirt: The Scoop on Soil	M/710	978-1-4048-1429-5	48.70	Capstone Classroom
Inside Earth: Rocks and Minerals (Infomax CC Readers)	G/400	978-1-4488-9044-6	42.00	Rosen Classroom
Rocks and Soil (Earth and Space)	530L	Y09809	38.00	Benchmark Education
Rocks and Soil (Earth and Space)(big book)	530L	Y09833	38.00	Benchmark Education
The Science of Soil	I	978-1-4358-0034-2	36.00	Rosen Classroom

Earth Patterns, Cycles, and Change

3.8 The student will investigate and understand basic patterns and cycles occurring in nature.

Earth's Water (Earth and Space)	490L	Y09793	38.00	Benchmark Education
Earth's Water (Earth and Space)(big book)	490L	Y09817	38.00	Benchmark Education
Grow a Plant Inch by Inch	E	978-1-4042-5445-9	30.00	Rosen Classroom
<i>How Do Plants Grow? (My Science Library)</i>	<i>C/450</i>	<i>978-1-61741-923-2</i>	<i>8.95</i>	<i>Rourke Ed Media</i>
Plant Experiments: What Affects Plant Growth?	M	978-1-4358-0132-5	42.00	Rosen Classroom
<i>Plant Life Cycles (My Science Library)</i>	<i>I/490</i>	<i>978-1-61741-936-2</i>	<i>8.95</i>	<i>Rourke Ed Media</i>
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
<i>Seeds, Bees and Pollen (My Science Library)</i>	<i>L/740</i>	<i>978-1-61741-950-8</i>	<i>8.95</i>	<i>Rourke Ed Media</i>
The Lunar Cycle: Phases of the Moon	M	978-1-4358-0004-5	42.00	Rosen Classroom

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Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
What I See in the Sky (Infomax CC Readers)	H/400	978-1-4488-9062-0	42.00	Rosen Classroom

3.9 The student will investigate and understand the water cycle and its relationship to life on Earth.

Freshwater or Salt Water? (Infomax CC Readers)	K/520	978-1-4777-2373-9	42.00	Rosen Classroom
Learning About the Water Cycle with Graphic Organizers	Z	978-1-4042-5047-5	42.00	Rosen Classroom
Water on Earth (Infomax CC Readers)	G/360	978-1-4488-9035-4	42.00	Rosen Classroom
Water: Up, Down and All Around	M/630	978-1-4048-1439-4	48.70	Capstone Classroom

Earth Resources

3.10 The student will investigate and understand that natural events and human influences can affect the survival of species.

Erosion: Changing Earth's Surface	N/780	978-1-4048-3172-8	48.70	Capstone Classroom
Living Green: Saving Our Earth	M	978-1-4358-0122-6	42.00	Rosen Classroom
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
Recycling Paper (Infomax CC Readers)	I/500	978-1-4777-2275-6	42.00	Rosen Classroom
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
Visiting the Chesapeake Bay	L	978-1-4339-9790-7	53.70	Gareth Stevens Cl

3.11 The student will investigate and understand different sources of energy.

Energy for Earth (Infomax CC Readers)	K/560	978-1-4777-2435-4	42.00	Rosen Classroom
Ethanol and Other New Fuels (Energy for Today)	N	978-1-4339-0429-5	35.70	Gareth Stevens Cl
Forms of Energy	O	978-1-4358-0124-0	42.00	Rosen Classroom
Mysteries of the Sun	N/700	978-1-4777-2595-5	42.00	Rosen Classroom
Nuclear Power (Energy for Today)	N	978-1-4339-0431-8	35.70	Gareth Stevens Cl
Oil, Gas and Coal (Energy for Today)	N	978-1-4339-0430-1	35.70	Gareth Stevens Cl
Our Natural Resources (Infomax CC Readers)	J/540	978-1-4777-2357-9	42.00	Rosen Classroom
Solar Power (Energy for Today)	N	978-1-4339-0432-5	35.70	Gareth Stevens Cl
Sources of Energy (Infomax CC Readers)	N/750	978-1-4777-2644-0	42.00	Rosen Classroom
Water Power (Energy for Today)	N	978-1-4339-0433-2	35.70	Gareth Stevens Cl
Wind Power (Energy for Today)	N	978-1-4339-0434-9	35.70	Gareth Stevens Cl

*Title in multiple strands

Price and availability subject to change without notice.

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