



**Correlated to 4th Grade Science Curriculum Framework
January 2010**

The fourth-grade Standards stress the importance of using information, analyzing data, and validating experimental results. Defining variables in experimentation is emphasized, and making simple predictions from picture, bar, and basic line graphs is underscored.

Force Motion and Energy

4.2 The student will investigate and understand characteristics and interactions of moving objects.

Friction and Gravity: Snowboarding Science	978-1-4358-0186-8	51.00	S	Rosen
Forces: The Ups and Downs (Science In Your Life)	978-1-4109-2067-6	47.94	O	Heinemann-Raintree
Extreme Zone: Forces and Motion (Physical Science)	978-1-4109-1981-6	47.94	L	Heinemann-Raintree
A Crash Course in Forces and Motion with MaxAxiom, Super Scientist	978-0-7368-9963-5	47.70	P	Heinemann-Raintree
Roller Coaster! (Motion and Acceleration)	978-1-4109-2643-2	47.94	M	Heinemann-Raintree
<i>Gravity! Do You Feel It? (My Science Library)</i>	<i>978-1-61741-956-0</i>	<i>7.95</i>	<i>N</i>	<i>Rourke</i>

4.3 The student will investigate and understand the characteristics of electricity.

Blackout: (Electricity and Circuits)	978-1-4109-1978-6	47.94	L	Heinemann-Raintree
Electricity: Turn It On! (Science In Your Life)	978-1-4109-2066-9	47.94	O	Heinemann-Raintree
Conductors and Insulators (My World of Science)	978-1-4329-1487-5	47.94	L	Heinemann-Raintree
Using Electricity (My World of Science)	978-1-4329-1484-4	47.94	N	Heinemann-Raintree
Search and Rescue (Heat and Energy Transfer)	978-1-4109-2883-2	47.94	L	Heinemann-Raintree
Electrical Circuits and Currents	978-1-4109-3278-5	53.94	Q	Heinemann-Raintree
The Shocking World of Electricity with Max Axiom Super Scientist	978-0-7368-9961-1	47.70	S	Heinemann-Raintree
Electricity: Bulbs, Batteries, and Sparks	978-1-4048-1430-1	47.70	N	Heinemann-Raintree
<i>ZAP! It's Electricity (My Science Library)</i>	<i>978-1-61741-955-3</i>	<i>7.95</i>	<i>L</i>	<i>Rourke</i>

Life Processes

4.4 The student will investigate and understand basic plant anatomy and life processes.

What Makes a Plant a Plant? (Bridges)	A98623	49.00	L	Benchmark
What Makes a Plant a Plant? (Navigators)	A62297	48.00	Q	Benchmark
The Life Cycle of Plants	A62242	44.00	O	Benchmark

Title	ISBN/Code No.	Price	Rdg Level	Publisher
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Plant Secrets (Plant Life Processes)	978-1-4109-1996-0	47.94	L	Heinemann-Raintree
Respiration and Photosynthesis	978-1-4109-3271-6	53.94	R	Heinemann-Raintree
Plant Reproduction (Life Science)	978-1-4109-3272-3	53.97	Q	Heinemann-Raintree
Understanding Photosynthesis with Max Axiom Super Scientist	978-0-7368-9966-6	47.70	T	Heinemann-Raintree
<i>Grasslands (Biomes)</i>	<i>978-1-59036-352-2</i>	<i>9.95</i>	--	<i>Weigl</i>
<i>Deserts (Biomes)</i>	<i>978-1-59036-350-8</i>	<i>9.95</i>	--	<i>Weigl</i>
<i>Deciduous Forests (Biomes)</i>	<i>978-1-59036-441-3</i>	<i>9.95</i>	--	<i>Weigl</i>
<i>How Do Plants Grow? (My Science Library)</i>	<i>978-1-61741-923-2</i>	<i>7.95</i>	<i>C</i>	<i>Rourke</i>
<i>Seeds, Bees and Pollen (My Science Library)</i>	<i>978-1-61741-950-8</i>	<i>7.95</i>	<i>L</i>	<i>Rourke</i>
<i>Plants Make Their Own Food (My Sci Library)</i>	<i>978-1-61741-949-2</i>	<i>7.95</i>	<i>L</i>	<i>Rourke</i>
<i>Plant Adaptation (My Science Library)</i>	<i>978-1-61741-937-9</i>	<i>7.95</i>	<i>G</i>	<i>Rourke</i>

Living Systems

4.5 The student will investigate and understand how plants and animals in an ecosystem interact with one another and with the nonliving components in the ecosystem.

What Makes an Animal an Animal? (Bridges)	A98630	49.00	M	Benchmark
What Makes an Animal an Animal? (Navigators)	A62303	48.00	Q	Benchmark
Food Chains (Nature's Patterns)	978-1-4034-5890-2	47.94	N	Heinemann-Raintree
Earth's Ecosystems (Plant Earth)	978-1-4339-1295-5	53.70	Q	Gareth Stevens
An Arctic Ecosystem	978-1-4358-0150-9	51.00	P	Rosen
<i>Grasslands (Biomes) *</i>	<i>978-1-59036-352-2</i>	<i>9.95</i>	--	<i>Weigl</i>
<i>Deserts (Biomes)*</i>	<i>978-1-59036-350-8</i>	<i>9.95</i>	--	<i>Weigl</i>
<i>Deciduous Forests (Biomes) *</i>	<i>978-1-59036-441-3</i>	<i>9.95</i>	--	<i>Weigl</i>
The World of Food Chains with Max Axiom, Super Scientist	978-0-7368-9964-2	47.70	S	Heinemann-Raintree
The Journey into Adaptation with Max Axiom, Super Scientist	978-0-7368-9965-9	47.70	T	Heinemann-Raintree
Life in a Rain Forest Ecosystem	978-1-4358-0190-5	51.00	R	Rosen
Shark Snacks: Food Chains and Webs	978-1-4109-2004-1	47.94	L	Heinemann-Raintree
War in Your Backyard: Life in an Ecosystem	978-1-4109-2001-0	47.94	L	Heinemann-Raintree
Would You Survive?: Plant and Animal Adaptation	978-1-4109-2000-3	47.94	L	Heinemann-Raintree
Is it Living or Nonliving? (lap book)	978-1-4329-2279-5	8.95	I	Heinemann-Raintree

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Interrelationships in Earth/Space Systems

4.6 The student will investigate and understand how weather conditions and phenomena occur and can be predicted.

Storm Tracker: Measuring and Forecasting Weather	978-1-4109-2634-0	47.94	L	Heinemann-Raintree
Catastrophic Storms	A5082X	48.00	T	Benchmark
Learning About Weather with Graphic Organizers	978-1-4042-5037-6	42.00	Z	Rosen
<i>Studying Weather and Climates (My Sci Library)</i>	978-1-61741-951-5	7.95	M	Rourke

Earth Patterns, Cycles and Change

4.7 The student will investigate and understand the organization of the solar system.

4.8 The student will investigate and understand the relations among Earth, the moon and the sun.

Learning about the Movement of the Sun and Other Stars with Graphic Organizers	978-1-4042-5041-3	42.00	V	Rosen
<i>The Moon (Science Matters)</i>	978-1-59036-517-5	8.95	--	Weigl
<i>The Sun (Science Matters)</i>	978-1-59036-518-2	8.95	--	Weigl
Our Solar System: The Moon	A62211	44.00	O	Benchmark
The Lunar Cycle: Phases of the Moon	978-1-4358-0004-5	42.00	M	Rosen
Solar Eclipses	978-1-4358-0192-9	51.00	T	Rosen
Moons of Our Solar System	978-1-4358-0182-0	51.00	S	Rosen
Sun (SkyWatch)	978-1-60472-959-7	47.70	--	Rourke
Learning About Earth's Cycles with Graphic Organizers	978-1-4042-5045-1	42.00	Y	Rosen
The Solar System (The Galaxy)	978-0-7368-3577-0	41.70	Q	Heinemann-Raintree
The Planets (Out in Space, Revised)	978-1-4296-2839-6	35.70	I	Heinemann-Raintree
Our Solar System: The Sun (Bridges)	A98470	45.00	K	Benchmark
Our Solar System: The Sun (Navigators)	A62204	44.00	N	Benchmark
Our Solar System: Earth (Bridges)	A98494	45.00	K	Benchmark
Our Solar System: Earth (Navigators)	A62228	45.00	P	Benchmark
Our Solar System: The Moon (Bridges)	A98487	45.00	K	Benchmark
Our Solar System: The Moon (Navigators)	A62211	44.00	O	Benchmark
<i>Earth Is Tilting! (My Science Library)</i>	978-1-61741-952-2	7.95	M	Rourke

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Earth Resources

4.9 The student will investigate and understand important Virginia natural resources.

All Around Virginia: Regions and Resources	978-1-4034-2790-8	53.94	S	Heinemann-Raintree
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