



Correlation

Standards of Learning for Virginia

Science

Grade Four

**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 Four**

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. Questioning and hypothesizing become more detailed at this level. Students are introduced to basic principles of electricity and to the concept of motion. Students explore basic information about our solar system and investigate the interactions among Earth, the moon, and the sun. Students explore basic plant anatomy, plant adaptations, and investigate relationships among plants and animals and their environments. In examining weather phenomena and conditions, students identify various factors, make predictions based on data, and evaluate the results. The importance of natural resources in Virginia is emphasized.

Scientific Investigation, Reasoning and Logic

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

<i>Hypothesis, Theory, Law</i>	T/820	978-1-62717-868-6	10.95	Rourke Ed Media
<i>Using Tools to Understand Our World</i>	S/1030	978-1-61810-230-0	8.95	Rourke Ed Media

Force Motion and Energy

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

A Crash Course in Forces and Motion with Max Axiom, Super Scientist	V/630	978-0-7368-9963-5	48.70	Capstone Classroom
Friction and Gravity: Snowboarding Science	S	978-1-4358-0186-8	51.00	Rosen Classroom
<i>Gravity! Do You Feel It? (My Science Library)</i>	N/560	978-1-61741-956-0	8.95	Rourke Ed Media
Making Things Move: Force and Motion	L/590	978-1-4777-2336-4	42.00	Rosen Classroom
Super Cool Forces and Motion Activities with Max Axiom	V	978-1-4914-2533-6	48.70	Capstone Classroom

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

Electricity: Bulbs, Batteries, and Sparks	N/650	978-1-4048-1430-1	48.70	Capstone Classroom
Energy for Earth (Infomax CC Readers)	K/560	978-1-4777-2435-4	42.00	Rosen Classroom
<i>It's Electric! Currents</i>	T/900	978-1-6271-7872-3	10.95	Rourke Educ. Media
My Electricity Experiments	M/680	978-1-4777-2475-0	42.00	Rosen Classroom
The Science of Lighting a City: Electricity in Action	T/830	978-1-4296-5077-9	48.70	Capstone Classroom
The Shocking World of Electricity with Max Axiom, Super Scientist	V/720	978-0-7368-9961-1	48.70	Capstone Classroom
Using Electricity (My World of Science)	N	978-1-4329-1484-4	48.94	Capstone Classroom
<i>ZAP! It's Electricity (My Science Library)</i>	L/600	978-1-61741-955-3	8.95	Rourke Ed Media

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

Life Processes

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

A Tree's Life (Infomax CC Readers)	L/630	978-1-4777-2629-7	42.00	Rosen Classroom
<i>How Do Plants Grow? (My Science Library)</i>	C/450	978-1-61741-923-2	8.95	Rourke Ed Media
Know Your Leaves (Infomax CC Readers)	J/560	978-1-4777-2425-5	42.00	Rosen Classroom
<i>Plant Adaptation (My Science Library)</i>	G/590	978-1-61741-937-9	8.95	Rourke Ed Media
Plants and Animals of the Chesapeake Bay *	L	978-1-4339-9782-2	53.70	Gareth Stevens Cl
<i>Plants Make Their Own Food (My Science Library)</i>	L/730	978-1-61741-949-2	8.95	Rourke Ed Media
Saving the Chesapeake Bay *	L	978-1-4339-9786-0	53.70	Gareth Stevens Cl
<i>Seeds, Bees and Pollen (My Science Library)</i>	L/740	978-1-61741-950-8	8.95	Rourke Ed Media
The Life Cycle of Plants	O/740	A62242	49.00	Benchmark Education
The Secret Lives of Plants!	P/740	978-1-4296-8467-5	48.70	Capstone Classroom
Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
Understanding Photosynthesis with Max Axiom, Super Scientist	U/780	978-0-7368-9966-6	48.70	Capstone Classroom
What Makes a Plant a Plant? (Bridges)(below-level)	L	A98623	54.00	Benchmark Education
What Makes a Plant a Plant? (Navigators)(on-level)	Q	A62297	51.00	Benchmark Education
Wings, Shells and Fur: Surviving in the Wild	L/600	978-1-4777-2520-7	42.00	Rosen Classroom

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.

An Arctic Ecosystem	P	978-1-4358-0150-9	51.00	Rosen Classroom
Exploring the Great Basin (Infomax CC Readers)	N/670	978-1-4777-2492-7	42.00	Rosen Classroom
Life in a Rain Forest Ecosystem	R	978-1-4358-0190-5	51.00	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
The Journey into Adaptation with Max Axiom, Super Scientist	T/790	978-0-7368-9965-9	48.70	Capstone Classroom
The World of Food Chains with Max Axiom, Super Scientist	T/720	978-0-7368-9964-2	48.70	Capstone Classroom
Tributaries of the Chesapeake Bay *	L	978-1-4339-9794-5	53.70	Gareth Stevens Cl
What 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
What Makes an Animal an Animal? (Bridges)(below-level)	M/530	A98630	54.00	Benchmark Education
What Makes an Animal an Animal? (Navigators)(on-level)	Q/730	A62303	51.00	Benchmark Education

Interrelationships in Earth/Space Systems

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

Catastrophic Storms	T/760	A5082X	51.00	Benchmark Education
Learning About Weather with Graphic Organizers	Z	978-1-4042-5037-6	42.00	Rosen Classroom
<i>Studying Weather and Climates (My Science Library)</i>	M/930	978-1-61741-951-5	8.95	Rourke Ed Media
Weather (The Science Behind)	O/690	978-1-4109-4509-9	48.94	Capstone Classroom
Weather Infographics	N/740	978-1-4109-6229-4	47.94	Capstone Classroom
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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.

<i>Earth Is Tilting! (My Science Library)</i>	M/740	978-1-61741-952-2	8.95	Rourke Ed Media
Learning About Earth's Cycles with Graphic Organizers	Y	978-1-4042-5045-1	42.00	Rosen Classroom
Learning about the Movement of the Sun and Other Stars with Graphic Organizers	V	978-1-4042-5041-3	42.00	Rosen Classroom
Moons of Our Solar System	S	978-1-4358-0182-0	51.00	Rosen Classroom
Mysteries of the Sun	N/700	978-1-4777-2595-5	42.00	Rosen Classroom
Our Solar System: Earth (Bridges)(below-level)	K/470	A98494	50.00	Benchmark Education
Our Solar System: Earth (Navigators)(on-level)	P/650	A62228	49.00	Benchmark Education
Our Solar System: The Moon (Bridges)(below-level)	K/580	A98487	50.00	Benchmark Education
Our Solar System: The Moon (Navigators)(on-level)	O/730	A62211	49.00	Benchmark Education
Our Solar System: The Sun (Bridges)(below-level)	K/560	A98470	50.00	Benchmark Education
Our Solar System: The Sun (Navigators)(on-level)	N/750	A62204	49.00	Benchmark Education
Solar Eclipses	T	978-1-4358-0192-9	51.00	Rosen Classroom
Space (Smithsonian Little Explorer)	M/580	978-1-4765-3727-6	42.70	Capstone Classroom
The Lunar Cycle: Phases of the Moon	M	978-1-4358-0004-5	42.00	Rosen Classroom
The Moon (Astronaut Travel Guides)	R/1010	978-1-4109-4590-7	54.94	Capstone Classroom
The Planets (Out in Space, Revised)	K/420	978-1-4296-2839-6	36.70	Capstone Classroom
The Sun (Astronaut Travel Guides)	R/1010	978-1-4109-4592-1	54.94	Capstone Classroom
What Is a Constellation? (Let's Find Out!)	T	978-1-6227-5479-3	65.70	Rosen Classroom

Earth Resources

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

A Close Look at Soil	L/580	978-1-5081-1323-2	48.00	Rosen Classroom
All Kinds of Rocks	I/510	978-1-4777-2408-8	42.00	Rosen Classroom
Inside Earth: Rocks and Minerals	G/400	978-1-4488-9044-6	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
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

*Title in multiple strands

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