

Bound to Stay Bound Books

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Next Generation Science Standards for Grade 4

Grade 4 Physical Science

Bader, Bonnie. Who Was Alexander Graham Bell? (078854) Groff, David il. Did you know that Bell's amazing invention--the telephone--stemmed from his work on teaching the deaf? Both his mother and wife were deaf. Or, did you know that in later years he refused to have a telephone in his study? Bell's story will fascinate young readers interested in the early history of modern technology! (08-12) Grosset 2013 (AR/RC) \$12.92

Campbell, Sarah C. Mysterious Patterns: Finding Fractals In Nature. (184851) il. An introduction to the amazing and naturally repeating patterns called fractals. (07-10) Boyds Mills 2014 B,K,L+,Q+,M,CA,W+ (AR/RC) \$19.79

Christensen, Victoria G. How Batteries Work. (212241) il. What is a battery and how does it power your flashlight or tablet? Explore the exciting world of batteries, including battery parts, energy flow through a circuit, and how engineers discovered ways to store electricity. (08-11) Lerner 2017 Q (AR) \$29.38

Doeden, Matt. Finding Out About Nuclear Energy. (282359) il. An introduction to nuclear energy, including the tiny atoms that make up all matter that holds huge amounts of energy, and how it powers your television and refrigerator in your home. (08-10) Lerner 2015 Q (AR/RC) \$27.47

Enz, Tammy. Amazing Story Of Cell Phone Technology: Max Axiom STEM Adventures. (312038) Pop Art Properties il. Follow Max Axiom as he explains how cell phones work. In graphic novel format. (08-12) Capstone 2014 L,Q (AR) \$22.94

Felix, Rebecca. Cool Battery & Electricity Projects: Fun & Creative Workshop Activities. (328392) il. Presents easy-to-read, step-by-step instructions paired with photographs to teach young readers how to wire a working lamp, build a buzzing electric game, and more! (09-12) Abdo 2017 Q \$21.89

Gray, Leon. How Does GPS Work? (394345) il. An introduction to GPS, including its beginning as a military system and modern uses such as catching criminals, predicting earthquakes, creating maps, and more. (09-13) Gareth Stevens 2014 B \$17.76

Green, Dan. Energy. (204717) il. Profiles every facet of energy, from the scientists who uncovered its amazing secrets to the impact it has on every aspect of our lives. (08-12) DK Publishing 2016. \$14.91

Halvorson, Karin. Inside The Ears. (415505) il. A fun and easy introduction to how ears work. (07-10) Abdo 2013 Q (AR) \$21.19

Halvorson, Karin. Inside The Eyes. (415508) il. A fun and easy introduction to how eyes work. (07-10) Abdo 2013 L,Q (AR) \$21.19

Hunter, Nick. Energy For Everyone?: The Business Of Energy. (472364) il. An in-depth look at energy, including the use of alternative energy sources, the dangers of nuclear power, and the costs of renewable and nonrenewable energy. (11-15) Gareth Stevens 2013 L \$17.76

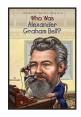
Jenkins, Steve. Eye To Eye: How Animals See The World. (490834) il. Presents a series of animals that possess unusual eyes. (06-09) Houghton 2014 B,K+,L+,M,C,W+ (AR/RC) \$20.51

Johanson, Paula. What Is Energy? (492156) il. An introduction to the basic concepts of energy and where it exists all around us. (07-11) Britannica Ed Pub 2015. \$24.34

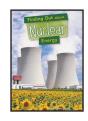
Kenney, Karen Latchana. Science Of Roller Coasters: Understanding Energy. (513959) il. An introduction to the science of roller coasters, including different forms of energy such as potential and kinetic, gravity, acceleration, velocity, g-forces, centripetal force, and more. (08-11) Abdo 2016 Q (AR) \$21.19

Kopp, Megan. Maker Projects For Kids Who Love Electronics. (529888) il. Young readers can explore this exciting and popular field by learning the basics of electronic circuits and how electronic components work, which they can then apply to an idea of their own. They will be able to create their project using everyday materials and easy-to-understand computer elements. (10-13) Crabtree 2017. \$14.70

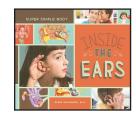
Kuskowski, Alex. Science Experiments With Light. (535596) il. Learn about the many curious properties of light with these experiments. (07-10) Abdo 2014 L,Q \$21.19

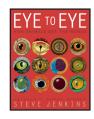




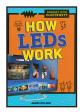








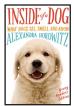


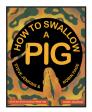












Kuskowski, Alex. Super Simple Telephone Projects: Inspiring & Educational Science Activities. (535595) il. Explores the history of the science behind the telephone with super simple projects. (06-09) Abdo 2016. \$21.19

Lasky, Kathryn. Newton's Rainbow: The Revolutionary Discoveries Of A Young Scientist. (544161) Hawkes, Kevin il. A picture-book biography of young Isaac Newton, who "discovered" gravity, developed calculus, and uncovered the secrets of light and color. (04-08) Farrar 2017 B,L,M,W \$20.51

Macaulay, David. Eye: How It Works. (592054) il. Shows how this extraordinary organ works to capture light and send signals to our brains. (06-09) Roaring Brook 2013 $L_{,}Q_{,}C$ (AR/RC) \$12.10

Roland, James. How LEDs Work. (762640) il. This book will explain how light-emitting diodes (LEDs) work and what products they are used in, as well as comparing LEDs with traditional incandescent and fluorescent light bulbs. (08-11) Lerner 2017 B,Q (AR) \$29.38

Shea, Therese. Solving Real-World Problems With Mechanical Engineering. (809204) il. An introduction to mechanical engineering, including the machines and engines that power the devices, vehicles, and appliances encountered in every day life, and more. (07-11) Britannica Ed Pub 2016 (AR) \$24.34

Silverman, Buffy. Let's Investigate Light. (818881) il. Emphasizes how important light is to our Earth. (08-11) Rourke 2013 L (AR) \$21.19

Steinberg, Lynnae D. Rainbows And Other Marvels Of Light And Water. (847200) il. Captures all of the excitement of rainbow sightings after rainy days. (06-09) Britannica Ed Pub 2017 (AR) \$24.34

Set S18372 _____ 23 Books @ \$467.27

Grade 4 Life Science

Baker, Jeannie. Circle. (083395) il. Each year, bar-tailed godwits undertake the longest migration of any bird, flying from Australia to their breeding grounds in the Arctic and back again. Follows the godwit's incredible flight. (05-08) Candlewick 2016 B,K,L,Q+,M,C,W+ (AR/RC) \$20.51

Bath, Louella. Plants That Mimic. (080958) il. Some plants practice mimicry, which is a defense mechanism that keeps them from being disturbed, or worse, eaten by enemies. Learn about plants that have evolved to practice mimicry and how it's essential to their survival. (08-11) PowerKids 2017 (AR) \$24.44

Brown, Martin. Lesser Spotted Animals: The Coolest Creatures You've Never Heard Of. (158097) il. Puts the spotlight on the awesome beasts of the world that have yet to have their day in the limelight, from the numbat to the zorilla to

the silvery gibbon. (07-10) David Fickling 2017 B+,K+,L,C,W (AR/RC) \$21.21

Cole, Tayler. Corpse Flowers Smell Nasty! (229355) il. An introduction to the corpse flower, including the purpose for the gross smell, life cycle, structure, and more. (07-10) Gareth Stevens 2017 B,L (AR) \$14.30

De la Bedoyere, Camilla. Creatures Of The Night. (265816) il. Features more than a dozen extraordinary animals that live in the dark. (08-11) Firefly Books 2014 B,K,L \$15.20

Franchino, Vicky. Animal Architects. (350852) il. Learn all about nature's most incredible architects, from what kind of structures they construct to what kinds of materials they use to build. (08-10) Children's 2016 (AR) \$13.35

Gray, Susan Heinrichs. Hornbill. (394340) il. Introduces facts about hornbills, including physical features, habitat, life cycle, food, and threats to these rainforest creatures. (08-12) Cherry Lake 2015 (AR) \$21.89

Hicks, Dwayne. Plants That Poison. (443172) il. Explores the deadly plants among us, and equips readers with the tools they need to identify them. (08-11) PowerKids 2017 (AR) \$24.44

Horowitz, Alexandra. Inside Of A Dog: What Dogs See, Smell, And Know. (464062) Do you want to know what dogs are thinking? What they're feeling? Now you finally can. The answers will surprise and delight young readers as scientist and dog-owner Alexandra Horowitz explains how dogs perceive their daily worlds, each other, and that other quirky animal, the human. (08-12) Simon 2016 B,K-,L,Q (AR/RC) \$19.81

Jackson, Ellen. Tooling Around: Crafty Creatures And The Tools They Use. (485002) Benoit, Renne il. Reveals the remarkable and often surprising ways in which animals use tools. (06-08) Charlesbridge 2014 B,K-,L,Q,W (AR) \$13.80

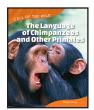
Jenkins, Steve. Eye To Eye: How Animals See The World. (490834) il. Presents a series of animals that possess unusual eyes. (06-09) Houghton 2014 B,K+,L+,M,C,W+ (AR/RC) \$20.51

Jenkins, Steve. How To Swallow A Pig: Step-By-Step Advice From The Animal Kingdom. (695344) il. A clever and whimsical book about animal behavior disguised as a How-to/Advice book. (06-09) Houghton Mifflin Harcourt 2015 B+,K,L,Q,C+ (AR/RC) \$20.51

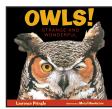
Johnson, Rebecca L. When Lunch Fights Back: Wickedly Clever Animal Defenses. (496951) il. An introduction to living things with some of the strangest defenses known to science: termites that blow themselves up to save the colony; fish that produce copious amounts of gooey, slippery slime; lizards that run on water; and more. (10-14) Millbrook 2015 B,K+,L,Q,C (AR/RC) \$28.44

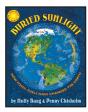
Kopp, Megan. Language Of Chimpanzees And Other Primates. (529884) il. Explains how chimpanzees, orangutans, gorillas, and howler monkeys share and receive information to survive in



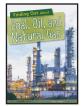


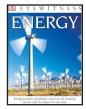












the wild, including human-primate communication, and more. (08-11) Cavendish Square 2017 (AR) \$15.33

Kopp, Megan. Language Of Dolphins And Other Sea Animals. (529883) il. Explains how and why dolphins, whales, sea lions, and sharks communicate in the wild, what these different signals mean, how humans study the language of ocean animals, and more. (08-11) Cavendish Square 2017 (AR) \$15.33

Kopp, Megan. Language Of Elephants And Other Large Mammals. (529886) il. Explains how large animals communicate, giraffes neck, elephants wag their ears, hippopotamuses bellow, how humans have decoded the language of elephants, and more. (08-11) Cavendish Square 2017 (AR) \$15.33

Lawrence, Ellen. Extreme Trees And How They Got That Way. (550810) il. Which tree weighs as much as 450 elephants and is the heaviest living thing on Earth? Young readers are introduced to some of the plant kingdom's most extreme trees. (06-08) Bearport 2015 (AR) \$20.49

Levy, Janey. Really Strange Birds. (567610) il. An introduction to the world's oddest birds, including birds of paradise, frigate birds, pelicans, vampire finches, the great grey shrike, and more. (10-13) PowerKids 2017 L (AR) \$26.30

Lindeen, Mary. Dancing Bees And Other Amazing Communicators. (574374) il. A high-interest look at how a variety of animals communicate with one another, from clicks and rumblings to dancing and plumage displays. (08-11) Lerner 2017 B (AR/RC) \$29.38

Pringle, Laurence. Owls! (733541) Henderson, Meryl il. An accessible and comprehensive introduction to owl species from all over the world. (08-11) Boyds Mills 2016 B,L,Q,W (AR) \$19.79

Probst, Jeff. Remarkable Plants. (733719) il. [Bk. 3] Challenge yourself to discover the world's most remarkable plants! From the biggest trees to the deadliest fungus and everything in between, find out all the fascinating facts about the plants that surround us. Features quizzes, trivia, facts, and incredible stories that will shock and amaze! (08-12) Puffin 2017 \$14.72

Set S18373 _____ 21 Books \$415.08

Grade 4 Earth & Space Science

Bang, Molly. Buried Sunlight: How Fossil Fuels Have Changed The Earth. (088350) il. It's time to learn about the role of carbon and fossil fuels on planet Earth! (07-10) Blue Sky Press 2014 B+,K+,L,Q+,M+,CA (AR/RC) \$21.21

Belton, Blair. How Coal Is Formed. (107160) il. An introduction to coal, including the process that transforms organic remains into coal, coal mines, the carbon cycle, and more. (08-12) Gareth Stevens 2017 (AR) \$15.27

Burleigh, Robert. Solving The Puzzle Under The Sea: Marie Tharp Maps The Ocean Floor. (173569) Colon, Raul il. The fascinating story of the first map of the ocean created by Marie Tharp. (07-09) Simon 2016 B,K+,L+,Q+,M,C,W (AR/RC) \$20.51

Chin, Jason. Grand Canyon. (211483) il. Home to an astonishing variety of plants and animals that live within its walls, Grand Canyon is much more than just a hole in the ground and a father-daughter team discover life both present and past as they explore the vast canyon. (07-12) Roaring Brook 2017 B+,L+,C+ (AR) \$21.91

Coleman, Miriam. Investigating Fault Lines. (230223) il. Examines fault lines and explains how scientists use them as clues about what's happening under the Earth's surface. (09-12) PowerKids 2016 (AR) \$24.44

Doeden, Matt. Finding Out About Coal, Oil, And Natural Gas. (282360) il. An introduction to coal, oil, and natural gas, including how workers collect these fossil fuels and what effects they have on the environment. (08-10) Lerner 2015 Q (AR/RC) \$27.47

Doeden, Matt. Finding Out About Wind Energy. (282357) il. An introduction to wind energy, how it can be turned into energy we can use, and the effect on the environment. **(08-10)** Lerner 2015 Q (AR/RC) \$27.47

Green, Dan. Energy. (204717) il. Profiles every facet of energy, from the scientists who uncovered its amazing secrets to the impact it has on every aspect of our lives. (08-12) DK Publishing 2016 \$14.91

Green, Jen. Big Fantastic Earth. (395827) il. Explore the highest peak of Mount Kilimanjaro to the deep grooves of the Grand Canyon, and discover how the incredible landscapes around the world were formed. Discover the earth's most amazing natural wonders. (08-12) DK Publishing 2016 L,Q (AR) \$11.82

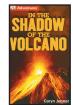
Greer, Eileen. Plate Tectonics. (400579) il. Earth's surface is broken up into numerous big pieces called plates. Believe it or not, these plates are constantly on the move. Readers will learn about how Earth's plates move and what happens when they collide. (09-13) PowerKids 2017 L (AR) \$26.30

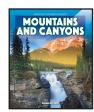
Gutman, Dan. My Weird School Fast Facts: Geography. (408652) Paillot, Jim il. Characters from the My Weird School series highlight some interesting facts on geography. (07-10) Harper 2016 L,Q \$13.22

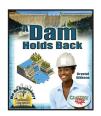
Hunter, Nick. Energy For Everyone?: The Business Of Energy. (472364) il. An in-depth look at energy, including the use of alternative energy sources, the dangers of nuclear power, and the costs of renewable and nonrenewable energy. (11-15) Gareth Stevens 2013 L \$17.76

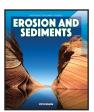




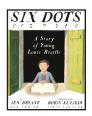












Jenner, Caryn. In The Shadow Of The Volcano. (490949) il. A modern-day adventure of an eruption of Mount Vesuvius, featuring Rosa Carelli, a volcanologist and her son. (08-11) DK Publishing 2014 (AR) \$12.62

Katirgis, Jane. Frightening Floods. (507803) il. Discusses the science behind floods and what to do to stay safe from them. (08-11) Enslow Elementary 2016 (AR) \$13.17

Katirgis, Jane. Scary Tsunamis. (507802) il. Discusses the science behind tsunamis and what to do to stay safe from them. (08-11) Enslow Elementary 2016 (AR) \$13.17

Lindeen, Mary. Investigating The Rock Cycle. (574382) il. An introduction to the rock cycle, constantly being created, destroyed, created again, being changed by the weather, erosion, heat, and pressure. **(08-11)** Lerner 2016 Q (AR) **\$28.44**

Nagelhout, Ryan. Be A Geologist. (666584) il. Focuses on the different kinds of geologists and the significant work they do. (08-12) Gareth Stevens 2015 \$15.27

Riley, Joelle. Examining Erosion. (754298) il. Explains erosion, what it is and what causes it. (08-11) Lerner 2013 L-, Q (AR/RC) \$27.47

Rudenko, Dennis. Mountains And Canyons. (770445) il. An introduction to mountains and canyons, including the earth science concepts behind their formation, the ways in which they shape the landscape, and more. **(09-13)** PowerKids 2017 L (AR) \$26.30

Salaka, Michael. Islands And Archipelagos. (774579) il. An introduction to islands and archipelagos, including how they are formed by nature, how they are made by humans, and more. **(09-13)** PowerKids 2017 L (AR) \$26.30

Sepahban, Lois. Science Of An Earthquake. (800235) il. Discusses the science behind earthquakes and their effects, including examining case studies of destructive earthquakes, explaining how earthquakes happen, and showing how scientists are working to understand earthquakes and minimize their damage. **(09-12)** Cherry Lake 2015 \$21.89

Sikkens, Crystal. Dam Holds Back. (830807) il. Learn about the engineering design process and see what materials are used in construction to make dams strong. (07-10) Crabtree 2017 \$14.20

Spilsbury, Louise. What Is The Rock Cycle? (840222) il. Explores the rock cycle through various states, including magma-formed igneous rock, metamorphic rock such as marble, layered sedimentary rocks that build up over time, and more. (07-11) Britannica Ed Pub 2014 (AR) \$24.34

Wilson, Steve. Erosion And Sediments. (953915) il. An introduction to erosion and sediments, including the processes of erosion and weathering, sedimentary rocks, rock cycle, and more. **(09-13)** PowerKids 2017 L (AR) \$26.30

Wood, Alix. Disasters On The Map. (962365) il. Learn about the locations of disasters from earthquakes to tsunamis and everything in between, all the while discovering how to understand a map's symbols, its contour or latitude and longitude lines, and more. (09-12) PowerKids 2015 \$26.30

Set S18374 _____ 25 Books @ \$512.06

Grade 4 Engineering Design

Aloian, Sam. How A Computer Is Made. (054531) il. Presents an inside look at laptops, desktops, and even tablets, as well as explains how these electronics are assembled. **(07-11)** Gareth Stevens 2016 L (AR) \$14.30

Bader, Bonnie. Who Was Alexander Graham Bell? (078854) Groff, David il. Did you know that Bell's amazing invention--the telephone--stemmed from his work on teaching the deaf? Both his mother and wife were deaf. Or, did you know that in later years he refused to have a telephone in his study? Bell's story will fascinate young readers interested in the early history of modern technology! (08-12) Grosset 2013 (AR/RC) \$12.92

Bryant, Jennifer. Six Dots: A Story Of Young Louis Braille. (164431) Kulikov, Boris il. An inspiring picture-book biography of Louis Braille--a blind boy so determined to read that he invented his own alphabet. (04-08) Knopf 2016 K,Q,M,C+,W+(AR/RC) \$20.51

Christensen, Victoria G. How Batteries Work. (212241) il. What is a battery and how does it power your flashlight or tablet? Explore the exciting world of batteries, including battery parts, energy flow through a circuit, and how engineers discovered ways to store electricity. (08-11) Lerner 2017 Q (AR) \$29.38

Davis, Kathryn Gibbs. Mr. Ferris And His Wheel. (262450) Ford, Gilbert il. It was a bizarre idea, presented by an eccentric engineer. Yes, it might be showy, but wouldn't the flimsy contraption collapse? Finally, the young inventor was told he could try--but only with his own money. His Ferris Wheel became the most iconic amusement ride of all time. **(06-08)** Houghton 2014 B+,K,L,Q,C,W (AR/RC) \$20.51

Faust, Daniel R. Civilian Drones. (326001) il. An introduction to civilian drones, including the history, how they work, how they're used, and more. (09-12) PowerKids 2016 L (AR) \$26.30

Gagne, Tammy. Women In Earth And Space Exploration. (363837) il. An introduction to the women who are making discoveries on land, under the sea, and in space, and the major differences they are making in these fields. (09-12) Abdo 2016 (AR) \$23.99



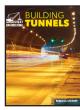














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Murphy, Maggie. High-Tech DIY Projects With Electronics, Sensors, And LEDs. (665112) il. Unlocks the mysteries of electronics, sensors, and LEDs and provides both technical information and step-by-step projects. (08-12) PowerKids 2015 \$27.17

Roby, Cynthia. Discovering STEM At The Amusement Park. (761056) il. Explains where STEM subjects come to life on a daily basis in an amusement park, and how science, technology, engineering, and math make amusement parks fun and safe, how classroom concepts are used to run each part of a park's operations, and more. (06-10) PowerKids 2016 (AR) \$24.44

Roland, James. How LEDs Work. (762640) il. This book will explain how light-emitting diodes (LEDs) work and what products they are used in, as well as comparing LEDs with traditional incandescent and fluorescent light bulbs. (08-11) Lerner 2017 B,Q (AR) \$29.38

Shea, Therese. Solving Real-World Problems With Mechanical Engineering. (809204) il. An introduction to mechanical engineering, including the machines and engines that power the devices, vehicles, and appliances encountered in every day life, and more. (07-11) Britannica Ed Pub 2016 (AR) \$24.34

Sikkens, Crystal. Dam Holds Back. (830807) il. Learn about the engineering design process and see what materials are used in construction to make dams strong. (07-10) Crabtree 2017 \$14.20

Stefoff, Rebecca. Building Tunnels. (846533) il. Discover the engineering behind tunnels. (07-10) Cavendish Square 2016 B (AR) \$14.72

Wallmark, Laurie. Grace Hopper: Queen Of Computer Code. (917454) Wu, Katy il. A picture book biography of Grace Hopper, who played a prominent role in the early days of computers. (05-09) Sterling 2017 B,K+,L \$19.79

Wooster, Patricia. YouTube Founders Steve Chen, Chad Hurley, And Jawed Karim. (965718) il. A biography of the YouTube founders and how they came together to build an international platform for video sharing. (07-11) Lerner 2014 L,Q (AR/RC) \$26.58

Set S18377 _____ 17 Books @ \$360.99

(Prices subject to change)

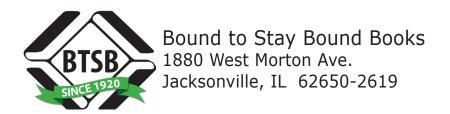
Spring 2019

Reviews and Reading Program Abbreviations

- **B** Booklist
- C Bulletin of the Center for Children's Books
- **K** Kirkus Reviews
- L School Library Journal
- M Horn Book
- Q Horn Book Guide
- W Publishers Weekly
- + Starred review
- AR Accelerated Reader® test available
- RC Reading Counts® test available







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