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Next Generation Science Standards for Grade 6

Grade 6 Physical Science

Annis, Matt. How Does Wifi Work? (063647) il. Explains how WiFi uses radio waves to send and receive data and connect smart phones, tablets, and computers to the internet. (09-13) Gareth Stevens 2014 B \$17.56

Bethea, Nikole Brooks. Power Plays: The Next 100 Years Of Energy. (117294) il. From solar-powered parking lots to algae biofuels, find out what types of power sources the people of the future may tap into. Power up with Luna Li to see what the next 100 years of energy may have in store for the human race. In graphic novel format. (08-12) Capstone 2017 (AR) \$22.31

Bow, James. Maker Projects For Kids Who Love Robotics. (139193) il. Learn about basic robot components and how they are used to build various robots for different purposes. (10-13) Crabtree 2016 L \$14.50

Brown, Jordan. Science Stunts: Fun Feats Of Physics. (158196) Owsley, Anthony il. Explore the world of physics with twenty-five entertaining and safe experiments to try at home. (08-12) Imagine 2016 K,W \$19.59

Claybourne, Anna. Electric Shocks And Other Energy Evils. (220277) il. Learn all about the most disgusting and dreadful aspects of electricity. From whizzing electrons and static shocks to frying flies and freaky frog legs, this book is full of yucky, painful and fascinating facts. (08-12) Crabtree 2013 L (AR) \$15.00

Gaddi, Rosalie. Day At Work With A Chemist. (362886) il. Presents readers with a close look at what it's like to work as a chemist, including how they use science, technology, engineering, and math every day. (08-12) PowerKids 2016 K \$24.24

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) \$20.99

Kenney, Karen Latchana. What Makes Vehicles Safer? (513957) il. Examines key

details about how manufacturers use engineering, science, and technology to design safer vehicles and transportation systems. (09-12) Lerner 2016 Q (AR) \$26.38

Krull, Kathleen. Benjamin Franklin. (533245) Kulikov, Boris il. Sheds new light on Benjamin Franklin--who considered science his true calling in life, not nation building--in this perceptive, fair-minded portrait. (10-14) Viking 2013 B,L,Q+,M,C (AR) \$18.91

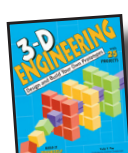
Mara, Wil. From Sharks To-- Swimsuits. (602843) il. Sports scientists studied the skin of sharks and determined that by adding tiny slits into swim suits they could reduce drag and help swimmers swim faster. This book will help students understand the concept of innovation and how the study of animals can lead to important new discoveries. (10-14) Cherry Lake 2013 L (AR) \$21.69

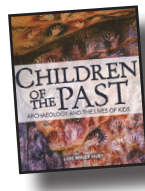
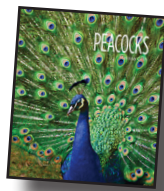
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May, Vicki V. 3-D Engineering: Design And Build Your Own Practical Prototypes With 25 Projects. (615156) Christensen, Andrew il. Young readers combine math and science skills with creativity to design, build, and evaluate their own prototypes. (09-12) Nomad 2015 \$20.29

Snedden, Robert. Materials Engineering And Exploring Properties. (831741) il. You might be surprised at the huge variety of materials we use every day, in the places we live, the vehicles we use, the clothes we wear, and in preparing the food we eat. This book explores how materials engineers research, design, and develop the materials needed to make these products a reality. Readers will also learn how to combine their understanding of materials science and the engineering design process to tackle a design challenge of their own. (09-12) Crabtree 2016 B \$15.00

Set S18336 _____ 13 Books @ \$258.15





Grade 6 Life Science

Anderson, Margaret Jean. Charles Darwin: Genius Of A Revolutionary Theory. (058966)

il. The life of Charles Darwin and his discovery of a unifying theory of biology, explaining the diversity of life. (10-14) Enslow 2015 \$27.28

Aronson, Marc. Griffin And The Dinosaur: How Adrienne Mayor Discovered A Fascinating Link Between Myth And Science. (071095)

il. Presents Mayor's discovery of a new kind of science--geomythology--where experts match myths and fossils. (10-14) National Geographic 2014 B,K,L,Q,CA,W (AR/RC) \$21.01

Biskup, Agnieszka. Medical Marvels: The Next 100 Years Of Medicine. (122472) il. From robotic nurses to designer babies, the future of medicine may take some unbelievable twists and turns. Step into the future with Luna Li to find out how medical care may change in the next 100 years. In graphic novel format. (08-12) Capstone 2017 (AR) \$22.31

Brockenbrough, Martha. Shark Week. (807607) il. An introduction to sharks, including different types, where they tend to strike, how you can survive, famous shark attacks, and everything in between. (09-12) Feiwel and Friends 2016 W \$18.21

Burillo-Kirch, Christine. Microbes: Discover An Unseen World With 25 Projects. (173452)

Casteel, Tom il. Uncover where microscopic bacteria, viruses, fungi, protists, and archaea live, how they exist in what can be extreme conditions, and how they can both help and hurt human beings. (09-12) Nomad 2015 B \$20.29

Carson, Mary Kay. Park Scientists: Gila Monsters, Geysers, And Grizzly Bears In America's Own Backyard. (194966)

Uhlman, Tom il. Meet up with scientists studying geysers, grizzlies, salamanders, cacti and fireflies in some of America's most treasured places: our national parks. (10-14) Houghton 2014 B,K,L+,Q+,M,CA (AR/RC) \$21.01

Crump, Martha L. Mystery Of Darwin's Frog. (251754)

Jenkins, Steve il. A frog packed with tadpoles! A fascinating tale of scientific discovery chronicles "how we know what we know" about the exotic Darwin's frog. (07-11) Boyds Mills 2013 B,K,L+,Q,C,W (AR/RC) \$19.59

Elton, Sarah. Meatless?: A Fresh Look At What You Eat. (307676)

McLaughlin, Julie il. An engaging, informative look at vegetarianism. (08-12) Owlkids \$19.59

Gish, Melissa. Armadillos. (380696) il. An introduction to armadillos, including their habitats, physical characteristics, behaviors, relationships with humans, threatened status of some species in the world today, and more.. (10-14) Creative Education 2017 B,L (AR) \$27.29

Gish, Melissa. Beavers. (380699) il. A scientific look at beavers, including their habitats, physical characteristics such as their gnawing teeth, behaviors, relationships with humans, and abundance of the rodents in the world today. (10-14) Creative Education 2015 L,Q (AR) \$25.19

Gish, Melissa. Brown Bears. (380698) il. A scientific look at brown bears, including their habitats, physical characteristics such as their coat, behaviors, relationships with humans, and elusiveness of the apex predators in the world today. (10-14) Creative Education 2015 L,Q (AR) \$25.19

Gish, Melissa. Geckos. (378493) il. A scientific look at geckos, including their habitats, physical characteristics such as their tuberculate skin, behaviors, relationships with humans, and variety of the vocalizing lizards in the world today. (10-14) Creative Education 2015 L (AR) \$25.19

Gish, Melissa. Hawks. (378502) il. A scientific look at hawks, including their habitats, physical characteristics such as their wings, behaviors, relationships with humans, and variety of the hunting raptors in the world today. (10-14) Creative Education 2015 L (AR) \$25.19

Gish, Melissa. Manatees. (378481) il. A look at manatees, including their habitats, physical characteristics such as their unique respiratory system, behaviors, relationships with humans, and the protected status of these intelligent creatures in the world today. (10-14) Creative Education 2017 B,L (AR) \$26.59

Gish, Melissa. Ostriches. (380695) il. A look at ostriches, including their habitats, physical characteristics such as their long and powerful legs, behaviors, relationships with humans, and their herd hierarchy in the world today. (10-14) Creative Education 2017 L (AR) \$26.59

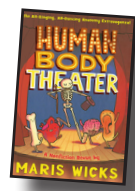
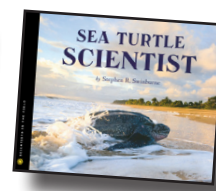
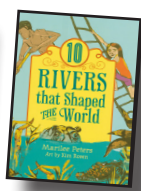
Gish, Melissa. Peacocks. (380694) il. A look at peacocks, including their habitats, physical characteristics such as the male's colorful plumage, behaviors, relationships with humans, and the protected status of Congo and green peacocks in the world today. (10-14) Creative Education 2017 B,L (AR) \$26.59

Huey, Lois Miner. Children Of The Past: Archaeology And The Lives Of Kids. (469566)

il. Footprints on cave floors. Fingerprints on clay pots. A tiny horse made from lead. Archaeologist Lois Miner Huey pieces together these clues to show readers the lives of children from long ago. (08-12) Millbrook 2017 B,K,L (AR) \$30.11

Jeffrey, Gary. Giant Sloth: Megatherium. (490610)

Poluzzi, Alessandro il. Provides a revealing look at the prehistoric Giant Sloth through a fictional graphic novel story, accompanied by nonfiction facts and fossil record information. In graphic novel format. (09-13) Smart Apple 2017 \$23.09



Markle, Sandra. Case Of The Vanishing Little Brown Bats: A Scientific Mystery. (603757) il. In this real-life science mystery, readers will follow scientific teams studying why little brown bats are disappearing. Follow along as scientists discover the mysterious killer and race against time to find a way to stop it before it kills too many bats worldwide. (10-14) Millbrook 2015 **B,K,L,Q,C** (AR/RC) \$29.18

Markle, Sandra. Great Monkey Rescue: Saving The Golden Lion Tamarins. (603831) il. A look at the plight of the golden lion tamarin for children. (10-13) Millbrook 2016 **B,K+,L,Q** (AR/RC) \$29.18

Markle, Sandra. Search For Olinguito. (603834) il. Learn about the olinguito, one of the most recently discovered mammal species, the discovery thereof, and the "cloud forests" in which they live. (6-9) Millbrook 2017 \$29.18

McCormick, Joyce. Natural Selection. (621716) il. An introduction to natural selection, including why some organisms survive and thrive while others slowly die out, and more. (09-13) PowerKids 2017 \$26.10

Montgomery, Sy. Great White Shark Scientist. (652321) Ellenbogen, Keith A. il. Follow Dr. Greg Skomal, biologist and head of the Massachusetts Shark Research Program, as he strives to better understand the habits and habitats of Great Whites in order to save this amazing, if maligned, creature of the deep. (10-12) Houghton 2016 **B+,K+,L+,Q+,M,C,W** (AR/RC) \$21.01

Newman, Patricia. Ebola: Fears And Facts. (674818) il. What's Ebola? Do we need to be afraid? This short book will take readers beyond the headlines to help them understand the 2014 outbreak. It will inform while helping to alleviate fears. (10-14) Millbrook 2016 **B+,K,L,Q,C** (AR/RC) \$30.11

Newman, Patricia. Sea Otter Heroes: The Predators That Saved An Ecosystem. (675226) il. Marine biologist Brent Hughes discovered a surprising connection between sea otters and sea grass at an estuary in northern California. Follow science in action as Hughes conducts the research that led to this major discovery. (08-12) Millbrook **B,K+,L** \$30.11

Peters, Marilee. 10 Rivers That Shaped The World. (710726) Rosen, Kim il. Dive into these ten surprising stories about the power of rivers through the ages. (09-12) Annick Press 2015 **B,K** \$18.19

Rake, Matthew. Last Days Of The Dinosaur. (738152) Minister, Peter il. About 145 million years ago, a new--and final--era began in the reign of dinosaurs. Join your friendly prehistoric fish-guide on a tour of the Cretaceous period, from the heyday of dinosaurs to their extinction. (10-14) Hungry Tomato 2016 **Q** (AR) \$26.38

Roza, Greg. Bacteria Up Close. (769482) il. An introduction to bacteria, amazing microorganisms with the ability to move, multiply, and adapt to make some of the most fascinating subjects of biology. (09-13) Gareth Stevens 2014 \$15.91

Shea, John M. DNA Up Close. (809154) il. Learn about DNA, the most remarkable discovery of the twentieth century. (09-13) Gareth Stevens 2014 \$15.91

Sheen, Barbara. Artificial Eyes. (809464) il. Describes the invention and development of artificial eyes. Explores trials and tribulations along with the technological advances seen today. (08-11) Norwood House 2017 **B** (AR) \$21.69

Silvey, Anita. Untamed: The Wild Life Of Jane Goodall. (819636) il. This biography for children will trace Goodall's life, but each chapter will also focus on two or more of the chimpanzees that she observed, with information in sidebars about these particular animals. Along with biographical details, the book will explore the ethical issues that surround Goodall's work and show what has changed in our understanding of Great Apes. (09-12) National Geographic 2015 **B,K-,L+,Q+,M,C,W+** (AR/RC) \$21.01

Sloan, Christopher. Tracking Tyrannosaurs: Meet T. Rex's Fascinating Family, From Tiny Terrors To Feathered Giants. (824678) Lida, Xing il. Explains to kids how T. rex, the most famous, ferocious dinosaur of all time, was only one of many tyrannosaurs that lived on Earth for over 100 million years. (11-14) National Geographic 2013 **B,L,Q** (AR) \$20.99

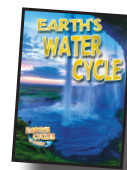
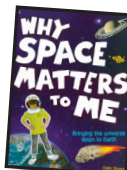
Swinburne, Stephen R. Sea Turtle Scientist. (868651) il. Explores the leatherback sea turtle's remarkable natural history and recounts the extraordinary efforts by scientists trying to save them. (10-14) Houghton 2014 **B,L+,Q+,M,C** (AR/RC) \$21.01

Taylor-Butler, Christine. Genetics. (874066) il. Learn all about the history of genetics research, from how scientists began studying genes to how their discoveries affect our lives today. (08-10) Children's 2017 **B** (AR) \$13.60

Turner, Pamela S. Dolphins Of Shark Bay. (894192) Tuason, Scott il. We go with a marine biologist to Australia to follow dolphins in the wild so we can figure out what makes dolphins intelligent. (10-14) Houghton 2013 **B,K+,L,Q+,M,C+** (AR/RC) \$21.01

Wicks, Maris. Human Body Theater. (943810) il. Welcome to the Human Body Theater, where your master of ceremonies is going to lead you through a theatrical revue of each and every biological system of the human body! In graphic novel format. (10-14) First Second 2015 **B+,C** (AR/RC) \$21.71

Set S18341 _____ 36 Books \$842.59



Grade 6 Earth & Space Science

Aldrin, Buzz. Welcome To Mars: Making A Home On The Red Planet. (049885) il. Challenges curious kids to think about Mars as not just a faraway red planet but as a possible future home for Earthlings! (08-12) National Geographic 2015 B,L,Q (AR/RC) \$21.01

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) \$15.07

Dakers, Diane. Earth's Water Cycle. (254659) il. Explains how the Earth's supply of water moves from bodies of water, to the atmosphere, and to land in a process called the water cycle. (10-13) Crabtree 2015 (AR) \$15.39

Grove, Tim. Milestones Of Flight: From Hot-Air Balloons To SpaceShipOne. (405151) il. This book, published in association with the Smithsonian National Air and Space Museum, celebrates the July 2016 40th anniversary of the museum and helps kick off a new exhibit called "Milestones of Flight" to highlight the history of flight told through approximately twenty-five historical milestones. (10-14) Abrams 2016 B,L,W \$23.09

Jenkins, Martin. Exploring Space: From Galileo To The Mars Rover And Beyond. (490821) Biesty, Stephen il. The enthralling story of how we made the great leap into space and what we've discovered there. (08-12) Candlewick K \$20.31

Letts, Amelia. Day At Work With A Geologist. (566278) il. Presents a close look inside what it's like to work as a geologist, including how they use science, technology, engineering, and math in their work every day. (08-12) PowerKids 2016 K \$24.24

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Owen, Ruth. Inventors: Designing And Creating Tomorrow's World. (694776) il. Every day, inventors are creating new products and technologies that help us learn, live, work, have fun, and take care of our planet. (08-11) Ruby Tuesday. 2017 L (AR) \$21.69

Peters, Marilee. 10 Rivers That Shaped The World. (710726) Rosen, Kim il. Dive into these ten surprising stories about the power of rivers through the ages. (09-12) Annick Press 2015 B,K \$18.19

Scott, Elaine. Our Moon: New Discoveries About Earth's Closest Companion. (793500) il. Full of captivating, kid-friendly information, Our Moon covers everything from the newest theories

on how the moon formed, to the recent, startling discovery of water on its surface and the very real possibility of future moon colonies. (09-12) Clarion 2015 B,K,L,Q+,M,W (AR/RC) \$21.01

Stuart, Colin. Why Space Matters To Me. (862178) Chaffe, Nick il. Covering topics like stardust, animal tracking with GPS, weather, seasons, tides, and more, shows the interconnectedness of life on Earth and space. (07-10) Egmont 2015 \$16.81

Yasuda, Anita. Astronomy: Cool Women In Space. (971701) Chandhok, Lena il. Discover the universe and learn about three compelling women who have made significant contributions to the field of astronomy. (09-12) Nomad 2015 B \$15.00
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Grade 6 Engineering Design

Annis, Matt. How Does WiFi Work? (063647) il. Explains how WiFi uses radio waves to send and receive data and connect smart phones, tablets, and computers to the internet. (09-13) Gareth Stevens 2014 B \$17.56

Bethea, Nikole Brooks. Power Plays: The Next 100 Years Of Energy. (117294) il. From solar-powered parking lots to algae biofuels, find out what types of power sources the people of the future may tap into. Power up with Luna Li to see what the next 100 years of energy may have in store for the human race. In graphic novel format. (08-12) Capstone 2017 (AR) \$22.31

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Duke, Shirley Smith. Skyscrapers And Towers. (294242) il. Learn all about famous skyscrapers and towers around the world and why they are considered engineering wonders! (08-12) Rourke 2016 B (AR) \$15.00

Faust, Daniel R. Building Computers: Computer Engineers. (325987) il. Learn how engineers design and construct the computer hardware people use everyday. (09-12) PowerKids 2016 L (AR) \$26.10

Faust, Daniel R. Building Robots: Robotic Engineers (325990) il. Learn about career opportunities in the field of robotic engineering. (09-12) PowerKids 2016 L (AR) \$26.10



Gray, Leon. Cybercrime. (394336) il. Explains the many insidious areas of cybercrime, including worms, viruses, fraud, hacking, and even cyberbullying. (09-13) Gareth Stevens 2014 \$17.56

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Set S18347 _____ 17 Books @ \$350.49

(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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