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Next Generation Science Standards for Grade 7

Grade 7 Physical Science

Brennan, Linda Crotta. Geothermal Power. (148452) il. An introduction to geothermal power, including how it was used in the past, how we use it today, and how we may use it in the future. (09-13) Cherry Lake 2013 L (AR) \$21.69

Burgan, Michael. Food Engineering: From Concept To Consumer. (172895) il. Learn about the history of food engineering and find out what it takes to make it in this exciting career field. (10-13) Children's 2016 (AR/RC) \$14.05

Carson, Mary Kay. Mission To Pluto: The First Visit To An Ice Dwarf And The Kuiper Belt. (194953) Uhlman, Tom il. Follow a spacecraft the size of a piano, named New Horizons, on the first ever spacecraft mission to Pluto, the space entity formerly known as a planet. (10-13) Houghton 2016 B,K+,M,C,W (AR) \$21.01

Dakers, Diane. Carbon Cycle. (254656) il. Explains how the Earth's supply of carbon moves among Earth's oceans, atmosphere, ecosystem, and geosphere in a process called the carbon cycle. (10-13) Crabtree 2015 (AR) \$15.39

Hardyman, Robyn. Nikola Tesla And Thomas Edison. (418884) il. Learn how these geniuses revolutionized electricity and society in the late 1800s, as well as the science behind many of their inventions and experiments. (10-14) Gareth Stevens 2015 \$17.56

Heos, Bridget. Blood, Bullets, And Bones: The Story Of Forensic Science From Sherlock Holmes To DNA. (439954) il. A history of modern forensic science from the first test for arsenic poisoning in the 1700s to criminal profiling, fingerprinting, blood splatter analysis, DNA evidence, and all the milestones in between. (08-12) Harper 2016 B,K,L+,M,C (AR) \$21.01

Hunter, Nick. Science vs. The Energy Crisis. (472547) il. Discusses what science is doing to help keep our planet sustainable for the future--exploring the science behind energy production and what we can do to prevent our natural resources from running out. (10-13) Gareth Stevens 2013 \$17.56

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 \$14.50

Kurlansky, Mark. Frozen In Time: Clarence Birdseye's Outrageous Idea About Frozen Food. (535074) il. Adventurer and inventor Clarence Birdseye had a fascination with food preservation that led him to develop and patent the Birdseye freezing process and start the company that still bears his name today. His limitless curiosity spurred his other inventions, including the electric sunlamp, an improved incandescent lightbulb, and a harpoon gun to tag finback whales. (10-14) Delacorte 2014 B,K,L,Q (AR) \$18.91

MacCarald, Clara. Invention Of The Atomic Bomb. (592042) il. Presents a behind-the-scenes look at the invention of the atomic bomb. (08-12) Child's World 2017 (AR) \$21.69

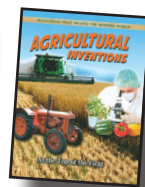
Rusch, Elizabeth. Next Wave: The Quest To Harness The Power Of The Oceans. (771841) il. The electrifying story of the surfer scientists and engineers who are working to transform ocean waves into electricity that energizes our lives. (10-14) Houghton 2014 K+,L+,Q,M,C (AR/RC) \$21.01

Sjonger, Rebecca. Biomedical Engineering And Human Body Systems. (823150) il. Biomedical engineering is the fastest growing engineering field. From designing life-saving medical devices to high-performance athletic gear, these engineers improve people's lives every day. This book explores the creative ways biomedical engineers help diagnose, treat, and prevent problems found in human body systems. Real-life examples make learning about the engineering design process interesting for readers. (09-12) Crabtree 2016 B \$15.00

Stuckey, Rachel. Energy From Living Things: Biomass Energy. (862214) il. Find out more about biomass, how it is sourced and used, and why this form of energy could help us find a more sustainable way to power our lives in the future. (09-12) Crabtree 2016 (AR) \$14.50

Set S18335 _____ 13 Books @ \$233.88





Grade 7 Life Science

Batten, Mary. Aliens From Earth: When Animals And Plants Invade Other Ecosystems. (096469)

Doyle, Beverly il. Explores how and why plants and animals enter ecosystems to which they are not native, as well as the consequences of these invasions for other animals, plants, and humans. (06-10) Peachtree 2016 (AR/RC) **\$14.05**

Burgan, Michael. Food Engineering: From Concept To Consumer. (172895)

il. Learn about the history of food engineering and find out what it takes to make it in this exciting career field. (10-13) Children's 2016 (AR/RC) **\$14.05**

Dakers, Diane. Carbon Cycle. (254656) il. Explains how the Earth's supply of carbon moves among Earth's oceans, atmosphere, ecosystem, and geosphere in a process called the carbon cycle. (10-13) Crabtree 2015 (AR) **\$15.39**

Eamer, Claire. Inside Your Insides: A Guide To The Microbes That Call You Home. (299766)

Tremblay, Marie-Eve il. Scientists estimate that for every human cell in your body, there are ten microbe cells! Introduces readers to a positive--and scientifically accurate--way of understanding microbes and our relationship with them. (08-12) Kids Can 2016 **B,K,L+ \$20.29**

Gold, Susan Dudley. Learning About The Musculoskeletal System And The Skin. (383637)

il. Find out how this system works and learn some amazing facts about muscles, bones and skin. (10-14) Enslow 2013 **Q \$24.47**

Heos, Bridget. Blood, Bullets, And Bones: The Story Of Forensic Science From Sherlock Holmes To DNA. (439954)

il. A history of modern forensic science from the first test for arsenic poisoning in the 1700s to criminal profiling, fingerprinting, blood splatter analysis, DNA evidence, and all the milestones in between. (08-12) Harper 2016 **B,K,L+,M,C (AR) \$21.01**

Jarrow, Gail. Bubonic Panic: When Plague Invaded America. (489956)

Spotlights the public health doctors who struggled to end the first plague epidemic in the United States; the political leaders who tried to keep it hidden; and the courageous scientists who, by uncovering the disease's secrets, found a way to fight it. (10-18) Calkins Creek 2016 **K+,L,Q+,M,C,W+ (AR) \$20.99**

Johnson, Rebecca L. Masters Of Disguise: Amazing Animal Tricksters. (495333)

il. Some animals rely on amazingly clever deceptions to survive. An introduction to some of nature's most bizarre and bloodthirsty con artists. (10-14) Millbrook 2016 **K+,L,Q (AR/RC) \$30.11**

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 **\$26.10**

MacLeod, Elizabeth. Bones Never Lie: How Forensics Helps Solve History's Mysteries. (595122)

il. Stories about seven historical royal figures whose demise was suspicious, and how

modern crime science techniques were used to find out the truth. (10-12) Annick Press 2013 **K+ (AR) \$18.19**

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**

Markle, Sandra. Great Leopard Rescue: Saving The Amur Leopard. (603832)

il. Amur leopards are the rarest big cats in the world. But thanks to scientists' new, innovative efforts to study them and breed a reserve population, these majestic cats have a chance to come back. (10-14) Millbrook 2017 **B,K+,L,C (AR) \$29.18**

Mason, Helen. Agricultural Inventions: At The Top Of The Field. (046285)

il. The advent of milestone machines such as Eli Whitney's cotton gin are chronologically explored. (10-13) Crabtree 2014 (AR) **\$15.39**

Montgomery, Sy. Amazon Adventure: How Tiny Fish Are Saving The World's Largest Rainforest. (652293)

il. Explores how tiny fish, called piabas, can help preserve not only the rainforest and it's often misunderstood inhabitants, but the fate of our entire environment. (10-12) Houghton 2017 **\$21.01**

Montgomery, Sy. Octopus Scientists: Exploring The Mind Of A Mollusk. (652334)

Ellenbogen, Keith A. il. Explores the mind of the mollusk to uncover the secrets of its advanced intelligence and learn what these thinking, feeling creatures have to teach us about the oceans, its animals, and ourselves. (10-14) Houghton 2015 **B+,K+,L+,Q+,M,C (AR/RC) \$21.01**

Montgomery, Sy. Tapir Scientist. (652358)

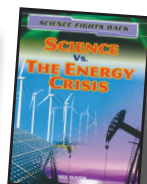
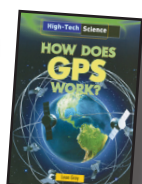
Bishop, Nic il. Introduces young readers to one of the weirdest and most fascinating animals on the planet and recounts the extraordinary work of the dedicated scientists trying to save them. (10-14) Houghton 2013 **B+,K+,L+,Q+,M,C,W+ (AR/RC) \$21.01**

Rake, Matthew. Dawn Of Planet Earth. (738153)

Minister, Peter il. More than three billion years ago, life began on Earth. Join your friendly prehistoric fish-guide on an adventure through the Precambrian, Devonian, Carboniferous, and Permian chapter's of the incredible story of evolution. (10-14) Hungry Tomato 2016 **K,Q (AR) \$26.38**

Rooney, Anne. Agricultural Engineering And Feeding The Future. (763067)

il. Agricultural engineers are on the front line in the challenge to provide a secure food supply for our world. This timely book explores how engineers design methods, as well as machinery for growing and harvesting crops, to make farming more efficient. Real-life examples help students understand key concepts related to this important profession. With an overview of the engineering design process, readers are encouraged to apply the same steps



into their own agricultural engineering challenge. (09-12) Crabtree 2016 B (AR) \$15.00

Rose, Simon. Agricultural Drones. (763844) il. Discover how drones help farmers maximize efficiencies and bring abundant harvests, and more. (08-11) Capstone 2017 (AR) \$21.43

Sjonger, Rebecca. Biomedical Engineering And Human Body Systems. (823150) il. Biomedical engineering is the fastest growing engineering field. From designing life-saving medical devices to high-performance athletic gear, these engineers improve people's lives every day. This book explores the creative ways biomedical engineers help diagnose, treat, and prevent problems found in human body systems. Real-life examples make learning about the engineering design process interesting for readers. (09-12) Crabtree 2016 (AR) B \$15.00

Stuckey, Rachel. Energy From Living Things: Biomass Energy. (862214) il. Find out more about biomass, how it is sourced and used, and why this form of energy could help us find a more sustainable way to power our lives in the future. (09-12) Crabtree 2016 (AR) \$14.50

Wadsworth, Ginger. Poop Detectives: Working Dogs In The Field. (913149) il. Explains how dogs that sniff for excrement help protect animals from extinction. (08-12) Charlesbridge 2016 B,K,L,M,C (AR) \$20.29

Set S18338 _____ Set of 22 books @ \$446.54

Grade 7 Earth & Space Science

Aguilar, David A. Seven Wonders Of The Solar System. (046625) Explores seven extraordinary celestial orbs, from our close neighbor Mars to mysterious Planet 9. (10-14) Viking 2017 \$21.01

Brennan, Linda Crotta. Geothermal Power. (148452) il. An introduction to geothermal power, including how it was used in the past, how we use it today, and how we may use it in the future. (09-13) Cherry Lake 2013 L (AR) \$21.69

Carson, Mary Kay. Mission To Pluto: The First Visit To An Ice Dwarf And The Kuiper Belt. (194953) Uhlman, Tom il. Follow a spacecraft the size of a piano, named New Horizons, on the first ever spacecraft mission to Pluto, the space entity formerly known as a planet. (10-13) Houghton 2016 B,K+,M,C,W (AR) \$21.01

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) \$24.24

Dakers, Diane. Carbon Cycle. (254656) il. Explains how the Earth's supply of carbon moves among Earth's oceans, atmosphere, ecosystem, and geosphere in a process called the carbon cycle. (10-13) Crabtree 2015 (AR) \$15.39

Dickmann, Nancy. Fracking: Fracturing Rock To Reach Oil And Gas Underground. (278099) il. Discover how people use fracking to harness the

before-unreachable supplies of gas and oil beneath Earth's surface, the challenges of this form of mining, and the controversies surrounding it. (09-12) Crabtree 2016 (AR) \$14.50

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 \$17.56

Hunter, Nick. Science vs. Climate Change. (472546) il. Discusses climate change and what we can do to prevent it, and explains what science is doing to help keep our planet sustainable for the future. (10-13) Gareth Stevens 2013 L \$17.56

Hunter, Nick. Science vs. The Energy Crisis. (472547) il. Discusses what science is doing to help keep our planet sustainable for the future--exploring the science behind energy production and what we can do to prevent our natural resources from running out. (10-13) Gareth Stevens 2013 \$17.56

Montgomery, Sy. Octopus Scientists: Exploring The Mind Of A Mollusk. (652334) Ellenbogen, Keith A. il. Explores the mind of the mollusk to uncover the secrets of its advanced intelligence and learn what these thinking, feeling creatures have to teach us about the oceans, its animals, and ourselves. (10-14) Houghton 2015 B+,K+,L+,Q+,M,C (AR/RC) \$21.01

Mullins, Matt. Geoscientist. (663626) il. Explains what a Geoscientist does and how to become one. (09-13) Cherry Lake 2013 L (AR) \$21.69

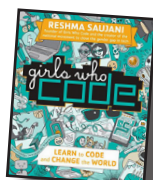
Rajczak Nelson, Kristen. How Oil Is Formed. (670501) il. An introduction to oil, including the important processes of this fossil fuel, from its origin and formation to its extraction and refining, and more. (08-12) Gareth Stevens 2017 (AR) \$15.07

Rake, Matthew. Dawn Of Planet Earth. (738153) Minister, Peter il. More than three billion years ago, life began on Earth. Join your friendly prehistoric fish-guide on an adventure through the Precambrian, Devonian, Carboniferous, and Permian chapter's of the incredible story of evolution. (10-14) Hungry Tomato 2016 K,Q (AR) \$26.38

Rooney, Anne. Agricultural Engineering And Feeding The Future. (763067) il. Agricultural engineers are on the front line in the challenge to provide a secure food supply for our world. This timely book explores how engineers design methods, as well as machinery for growing and harvesting crops, to make farming more efficient. Real-life examples help students understand key concepts related to this important profession. With an overview of the engineering design process, readers are encouraged to apply the same steps into their own agricultural engineering challenge. (09-12) Crabtree 2016 B (AR) \$15.00

Rusch, Elizabeth. Next Wave: The Quest To Harness The Power Of The Oceans. (771841) il. The electrifying story of the surfer scientists and engineers who are working to transform ocean





waves into electricity that energizes our lives. (10-14) Houghton 2014 **K+,L+,Q,M,C** (AR/RC) **\$21.01**

Stuckey, Rachel. Energy From Living Things: Biomass Energy. (862214) il. Find out more about biomass, how it is sourced and used, and why this form of energy could help us find a more sustainable way to power our lives in the future. (09-12) Crabtree 2016 (AR) **\$14.50**

Set S18343 _____ 16 Books @ \$305.18

Grade 7 Engineering Design

Burgan, Michael. Food Engineering: From Concept To Consumer. (172895) il. Learn about the history of food engineering and find out what it takes to make it in this exciting career field. (10-13) Children's 2016 (AR/RC) **\$14.25**

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**

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** **\$23.29**

MacCarald, Clara. Invention Of The Atomic Bomb. (592042) il. Presents a behind-the-scenes look at the invention of the atomic bomb. (08-12) Child's World 2017 (AR) **\$21.89**

Mason, Helen. Agricultural Inventions: At The Top Of The Field. (046285) il. The advent of milestone machines such as Eli Whitney's cotton gin are chronologically explored. (10-13) Crabtree 2014 (AR) **\$15.59**

Offord, Alexander. Communication Inventions: The Talk Of The Town. (234337) il. Significant inventions are profiled including information about the person or people behind an idea, the development process, the immediate impact of the invention, and the future inventions it inspired. (10-13) Crabtree 2014 (AR) **\$15.59**

Rooney, Anne. Agricultural Engineering And Feeding The Future. (763067) il. Agricultural engineers are on the front line in the challenge to provide a secure food supply for our world. This timely book explores how engineers design methods, as well as machinery for growing and harvesting crops, to make farming more efficient. Real-life examples help students understand key concepts related to this important profession. With an overview of the engineering design process, readers are encouraged to apply the same steps into their own agricultural engineering challenge. (09-12) Crabtree 2016 **B** (AR) **\$15.20**

Rose, Simon. Agricultural Drones. (763844) il. Discover how drones help farmers maximize

efficiencies and bring abundant harvests, and more. (08-11) Capstone 2017 (AR) **\$21.63**

Rusch, Elizabeth. Next Wave: The Quest To Harness The Power Of The Oceans. (771841) il. The electrifying story of the surfer scientists and engineers who are working to transform ocean waves into electricity that energizes our lives. (10-14) Houghton 2014 **K+,L+,Q,M,C** (AR/RC) **\$21.21**

Saujani, Reshma. Girls Who Code: Learn To Code And Change The World. (779498) Bursting with down-to-earth explanations of coding principles, and real-life stories of girls and women working at places like Pixar and NASA, shows girls how coding skills are relevant to their lives. (10-14) Viking **\$20.51**

Sjonger, Rebecca. Biomedical Engineering And Human Body Systems. (823150) il. Biomedical engineering is the fastest growing engineering field. From designing life-saving medical devices to high-performance athletic gear, these engineers improve people's lives every day. This book explores the creative ways biomedical engineers help diagnose, treat, and prevent problems found in human body systems. Real-life examples make learning about the engineering design process interesting for readers. (09-12) Crabtree 2016 **B** (AR) **\$15.20**

Set S18346 _____ 11 Books @ \$202.12

(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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