

Pre AP Reading List

Life Science

Auch, Mary Jane. *Wing Nut*. 2005. 240p. Holt, \$16.95 (0-8050-7531-3).

Gr. 4–7. When 12-year-old Grady and his mom relocate to Charlie Fernwald's Pennsylvania farm, the boy learns about maintaining a purple martin colony, auto mechanics, and trust.

Dowell, Frances O'Roark. *Chicken Boy*. 2005. 208p. Simon & Schuster/Atheneum, \$15.95 (0-689-85816-7); Aladdin, paper, \$5.99 (1-4169-3482-0).

Gr. 5–8. When 12-year-old Tobin raises chickens for extra credit in science class, he finds the discipline needed to complete the project and gains insights that help him deal with the problems in his life.

George, Jean Craighead. *Charlie's Raven*. 2004. 144p. Dutton, \$15.99 (0-525-47219-3); Puffin, paper, \$5.99 (0-14-240547-7).

Gr. 4–7. Thirteen-year-old Charlie learns much from Blue Sky, a baby raven who imprints on the boy and serves as a source of interest and amazement to Charlie's entire family. George, a noted naturalist in her own right, has written many books highlighting animal behavior, among them *Frightful's Mountain* (Dutton, 1999), about a peregrine falcon, and *There's an Owl in the Shower* (HarperCollins, 1995), about spotted owls.

Hobbs, Will. *Jackie's Wild Seattle*. 2003. 208p. HarperCollins, \$15.99 (0-688-17474-4); HarperTrophy, paper, \$5.99 (0-380-73311-0).

Gr. 5–8. Fourteen-year-old Shannon and her younger brother, Cody, spend the summer with their uncle Neal, an ambulance driver for a wildlife rescue center near Seattle. A subplot involving Neal's struggle with lymphoma is well handled.

Oppel, Kenneth. *Silverwing*. 1997. 224p. Simon & Schuster/Aladdin, paper, \$5.99 (0-689-82558-7).

Gr. 4–6. Shade, the runt of his Silverwing bat colony, becomes separated from the group during their annual winter migration, and, with the help of an exiled Brightwing bat, must find his colony and save them from a group of cannibal bats. Full of adventure, natural history, and bat lore, this book is followed by *Sunwing* (Simon & Schuster, 2000) and *Firewing* (Simon & Schuster, 2003).

Westerfield, Scott. *Leviathan*. 2010. 464p. Simon Pulse, \$5 (1-416-97174-2)

It is the cusp of World War I. The Austro-Hungarians and Germans have their Clankers, steam-driven iron machines loaded with guns and ammunition. The British Darwinists employ genetically fabricated animals as their weaponry. Their *Leviathan* is a whale airship, and the most masterful beast in the British fleet. Aleksandar Ferdinand, a Clanker, and Deryn Sharp, a Darwinist, are on opposite sides of the war. But their paths cross in the most unexpected way, taking them both aboard the Leviathan on a fantastical, around-the-world adventure....One that will change both their lives forever.

Horowitz, Alexandra. *Inside of a Dog: What Dogs See, Smell and Know*. 2010. 384p. Scribner, \$10 (1-416-58343-2)

The answers will surprise and delight you as Alexandra Horowitz, a cognitive scientist, explains how dogs perceive their daily worlds, each other, and that other quirky animal, the human. Horowitz introduces the reader to dogs' perceptual and cognitive abilities and then draws a picture of what it might be like to be a dog. What's it like to be able to smell not just every bit of open food in the house but also to smell sadness in humans, or even the passage of time? How does a tiny dog manage to play successfully with a Great Dane? What is it like to hear the bodily vibrations of insects or the hum of a fluorescent light? Why must a person on a bicycle be chased? What's it like to use your mouth as a hand? In short, what is it like for a dog to experience life from two feet off the ground, amidst the smells of the sidewalk, gazing at our ankles or knees? *Inside of a Dog* explains these things and much more. The answers can be surprising—once we set aside our natural inclination to anthropomorphize dogs. *Inside of a Dog* also contains up-to-the-minute research—on dogs' detection of disease, the secrets of their tails, and their skill at reading our attention—that Horowitz puts into useful context. Although not a formal training guide, *Inside of a Dog* has practical application for dog lovers interested in understanding why their dogs do what they do. With a light touch and the weight of science behind her, Alexandra Horowitz examines the animal we think we know best but

may actually understand the least. This book is as close as you can get to knowing about dogs without being a dog yourself.

Hoose, Philip. *Moonbird: A Year on the Wind with the Great Survivor B95*. 2012. 160p. Farrar, Straus and Giroux. \$17 (0-374-30468-8)

B95 can feel it: a stirring in his bones and feathers. It's time. Today is the day he will once again cast himself into the air, spiral upward into the clouds, and bank into the wind. He wears a black band on his lower right leg and an orange flag on his upper left, bearing the laser inscription B95. Scientists call him the Moonbird because, in the course of his astoundingly long lifetime, this gritty, four-ounce marathoner has flown the distance to the moon—and halfway back! B95 is a robin-sized shorebird, a red knot of the subspecies *rufa*. Each February he joins a flock that lifts off from Tierra del Fuego, headed for breeding grounds in the Canadian Arctic, nine thousand miles away. Late in the summer, he begins the return journey. B95 can fly for days without eating or sleeping, but eventually he must descend to refuel and rest. However, recent changes at ancient refueling stations along his migratory circuit—changes caused mostly by human activity—have reduced the food available and made it harder for the birds to reach. And so, since 1995, when B95 was first captured and banded, the worldwide *rufa* population has collapsed by nearly 80 percent. Most perish somewhere along the great hemispheric circuit, but the Moonbird wings on. He has been seen as recently as November 2011, which makes him nearly twenty years old. Shaking their heads, scientists ask themselves: How can this one bird make it year after year when so many others fall?

Medicine

Anderson, Laurie Halse. *Fever 1793*. 2000. 256p. Simon & Schuster, \$17.99 (0-689-83858-1); Aladdin, paper, \$5.99 (0-689-84891-9).

Gr. 6–10. As the 1793 Philadelphia yellow fever epidemic rages all around 16-year-old Mattie Cook, she comes into contact with many of the sick as well as Dr. Benjamin Rush and the physicians at the Free African Society. An appendix clarifies fact and fiction about this epidemic.

DeFelice, Cynthia. *The Apprenticeship of Lucas Whitaker*. 1996. 160p. Farrar/Sunburst, paper, \$6.95 (0-374-40014-8).

Gr. 5–8. While working with the kindly Dr. Beecher, 12-year-old Lucas learns much about the practice of medicine circa 1849, including some macabre and superstitious practices thought to cure tuberculosis.

Murphy, Jim. *An American Plague: The True and Terrifying Story of the Yellow Fever Epidemic of 1793*. 2003. 176p. Clarion, \$15 (0-395-77608-2).

1793, Philadelphia. The nation's capital and the largest city in North America is devastated by an apparently incurable disease, cause unknown . . . In a powerful, dramatic narrative, critically acclaimed author Jim Murphy describes the illness known as yellow fever and the toll it took on the city's residents, relating the epidemic to the major social and political events of the day and to 18th-century medical beliefs and practices. Drawing on first-hand accounts, Murphy spotlights the heroic role of Philadelphia's free blacks in combating the disease, and the Constitutional crisis that President Washington faced when he was forced to leave the city—and all his papers—while escaping the deadly contagion. The search for the fever's causes and cure, not found for more than a century afterward, provides a suspenseful counterpoint to this riveting true story of a city under siege. *An American Plague's* numerous awards include a Sibert Medal, a Newbery Honor, and designation as a National Book Award Finalist. Thoroughly researched, generously illustrated with fascinating archival prints, and unflinching in its discussion of medical details, this book offers a glimpse into the conditions of American cities at the time of our nation's birth while drawing timely parallels to modern-day epidemics. Bibliography, map, index.

Chibbaro, Julie. *Deadly*. 2012. 304p. Antheneum Books for Young Readers, \$5 (0-689-85739-X)

Prudence Galewski doesn't belong in Mrs. Browning's esteemed School for Girls. She doesn't want an "appropriate" job that makes use of refinement and charm. Instead, she is fascinated by how the human body works—and why it fails. Prudence is lucky to land a position in a laboratory, where she is swept into an investigation of a mysterious fever. From ritzy mansions to shady bars and rundown tenements, Prudence explores every potential cause of the disease to no avail—until the volatile Mary Mallon emerges. Dubbed "Typhoid Mary" by the press, Mary is an Irish immigrant who has worked as a cook in every home the fever has ravaged. But she's never been sick a day in her life. Is the accusation against her an act of discrimination? Or is she the first clue in solving one of the greatest medical mysteries of the twentieth century?

Murphy, Jim. *Invincible Microbe: Tuberculosis and the Never-Ending Search for a Cure*. 2015. 160p. HMH Books for Young Readers. \$7 (0-544-45594-0)

This is the story of a killer that has been striking people down for thousands of years: tuberculosis. After centuries of ineffective treatments, the microorganism that causes TB was identified and the cure was thought to be within reach—but drug-resistant varieties continue to plague and panic the human race. The "biography" of this deadly germ and the social history of an illness that could strike anywhere are woven together in an engrossing, carefully researched narrative.

Landforms and Environments

Gauthier, Gail. *Saving the Planet and Stuff: A Novel*. 2003. 240p. Putnam, \$17.99 (0-399-23761-5).

Gr. 8–10. Sixteen-year-old Michael agrees to intern for an environmental magazine, *The Earth's Wife*, and finds himself in over his head in politics—of both the environmental and the office kind. This eco-comedy contrasts the radical idealism of the 1960s with twenty-first-century "me-ism."

Ibbotson, Eva. *Journey to the River Sea*. Illus. by Kevin Hawkes. 2002. 336p. Dutton, \$17.99 (0-525-46739-4); Puffin, paper, \$5.99 (0-14-250184-0).

Gr. 5–8. In 1910, English orphan Maia moves to Brazil to live with distant cousins and finds herself disgusted by her relatives' lack of appreciation for their surroundings. This leads her to escape and have her own Amazon River adventure. An earlier title by this author, *Island of the Aunts* (Dutton, 2000), is a fantasy with a distinct environmental message. Hawkes' illustrations appear throughout both stories.

Bacigalupi, Paolo. *Ship Breaker*. 2011. 352p. Little, Brown Books for Young Readers. \$6 (0-316-05619-7)

In America's flooded Gulf Coast region, oil is scarce, but loyalty is scarcer. Grounded oil tankers are being broken down for parts by crews of young people. Nailer, a teenage boy, works the light crew, scavenging for copper wiring just to make quota—and hopefully live to see another day. But when, by luck or by chance, he discovers an exquisite clipper ship beached during a recent hurricane, Nailer faces the most important decision of his life: Strip the ship for all it's worth or rescue its lone survivor, a beautiful and wealthy girl who could lead him to a better life.... In this powerful novel, Paolo Bacigalupi delivers a thrilling, fast-paced adventure set in a vivid and raw, uncertain future devastated by the forces of climate change.

Water and Weather

Hiaasen, Carl. *Flush*. 2005. 272p. Knopf, \$16.95 (0-375-82182-1).

Gr. 5–8. Noah and his sister, Abbey, investigate a floating casino whose owners they suspect of dumping raw sewage into the protected waters around their Florida Keys home. Hiaasen's novel *Hoot* (Knopf, 2002) also involves kids uncovering wrongdoing in Florida: in this case, a land developer whose project will destroy the home of some burrowing owls.

Mikaelsen, Ben. *Stranded*. 1995. 256p. Hyperion, \$15.99 (0-7868-0072-0); paper, \$4.95 (0-7868-1109-9).

Gr. 5–8. Twelve-year-old Koby, who lost a foot in an accident, finds a new sense of self-worth when she rescues and cares for two beached pilot whales near her Florida Keys home. When an approaching hurricane threatens the whales' lives and her father's business, Koby and her parents must confront not only the storm but also the emotional barriers in the family.

Murphy, Jim. *Blizzard! The Storms that Changed America*. 2006. 144p. Scholastic, \$9 (0590673106).

With his powerful and intriguing narrative style, Newbery Honor Book author Jim Murphy tells the harrowing story of the Blizzard of 1888. Available for the first time in paperback.

Snow began falling over New York City on March 12, 1888. All around town, people struggled along slippery streets and sidewalks -- some seeking the warmth of their homes, some to get to work or to care for the less fortunate, and

some to experience what they assumed would be the last little snowfall of one of the warmest winters on record. What no one realized was that in a very few hours, the wind and snow would bury the city in nearly 21 inches of snow and bring it to a ferocious standstill.

Messner, Kate. *Eye of the Storm*. 2014. 304p. Walker Childrens, \$7 (0-802-73435-9).

In the not-too-distant future, huge tornadoes and monster storms are a part of everyday life. In the heart of storm country, Jaden Meggs attends the exclusive summer science camp, Eye on Tomorrow that her dad founded. There she meets Alex, a boy from a nearby storm-ravaged farm, and together they discover a horrible truth about her dad's weather research. As a massive tornado approaches, Jaden must trust her knowledge and have faith in herself to confront her dad and save everyone from the biggest storm yet.

Casey, Susan. *The Wave*. 2011, 432p. Anchor, \$9 (0-767-92885-7)

In her astonishing new book Susan Casey captures colossal, ship-swallowing waves, and the surfers and scientists who seek them out. For legendary surfer Laird Hamilton, hundred foot waves represent the ultimate challenge. As Susan Casey travels the globe, hunting these monsters of the ocean with Hamilton's crew, she witnesses first-hand the life or death stakes, the glory, and the mystery of impossibly mammoth waves. Yet for the scientists who study them, these waves represent something truly scary brewing in the planet's waters. With inexorable verve, *The Wave* brilliantly portrays human beings confronting nature at its most ferocious.

Chemistry and Physics

Paterson, Katherine. *The Same Stuff as Stars*. 2002. 256p. Clarion, \$15 (0-618-24744-0); HarperTrophy, paper, \$5.99 (0-06-055712-5).

Gr. 5–8. After being abandoned by her mother to live with her great-grandmother, 11-year-old Angel takes comfort from the astronomy she learns from her uncle.

Schoenbeck, Joel. *Athena's Son*, 2011. 252p. Papyrus Publishing, \$10 (0-615-56312-0).

In 276 BC, Alexandria, Egypt is the most vibrant and influential city in the Mediterranean. But Egyptians are shocked when they discover Anubis, god of the dead, is killing men working on the Pharos Lighthouse. The evidence is inexplicable. The victims' bodies have no wounds and the killer's tracks are enormous animal prints. Egyptians believe the jackal-headed god is walking the earth and doesn't want the new lighthouse built. Into this unearthly scene steps Archimedes, a new student with extraordinary skills in mechanics and science. He is there to attend the School of Alexandria and credits Athena, goddess of wisdom and war, for blessing him with the wisdom half of her powers. The pharaoh, desperate to get his lighthouse built, asks Archimedes to use his exceptional abilities to solve the crimes that only a vengeful god could commit and a 12-year-old genius can unravel. But Archimedes believes the murderer is more corporeal than spiritual and has to tread carefully when he applies the cold logic of Greek science in a sultry, mystical world of Egyptian culture. When Archimedes uses an ancient Egyptian scroll to put him on the trail of the killer, he also finds another god returned from the dead. Now Archimedes is going to need Athena's war skills.

Kakalios, James. *The Physics of Superheroes*. 2009. 448p. Avery, \$10 (1-592-40508-8)

Since 2001, James Kakalios has taught "Everything I Needed to Know About Physics I Learned from Reading Comic Books," a hugely popular university course that generated coast-to-coast media attention for its unique method of explaining complex physics concepts through comics. With *The Physics of Superheroes*, named one of the best science books of 2005 by *Discover*, he introduced his colorful approach to an even wider audience. Now Kakalios presents a totally updated, expanded edition that features even more superheroes and findings from the cutting edge of science. With three new chapters and completely revised throughout with a splashy, redesigned package, the book that explains why Spider-Man's webbing failed his girlfriend, the probable cause of Krypton's explosion, and the Newtonian physics at work in Gotham City is electrifying from cover to cover.

Bortz, Fred. *Meltdown!: The Nuclear Disaster in Japan and Our Energy Future*. 2012. 64p. Twenty-First Century Books. \$17 (0-761-38660-2)

Japan. March 11, 2011. 2:46 P.M. The biggest earthquake in Japan's history--and one of the world's five most powerful since 1900--devastated the Tohoku region, 320 kilometers (200 miles) northeast of Tokyo. It triggered a

huge tsunami that left crippling damage in its wake. More than 13,000 people drowned, and thousands of buildings and homes were reduced to rubble. As people assessed the damage, they made the most frightening discovery of all: the Fukushima #1 nuclear power plant was seriously damaged and three of its six reactors were heading for meltdowns. Workers tried desperately—but unsuccessfully—to save them. Explosions and fires released radioactivity into the air. Within days the Japanese government declared a 20-kilometer (12-mile) evacuation zone. The future of the plant, the long-term health of those exposed to radiation, and the effects on the environment remained uncertain. Learn more about this massive catastrophe as Dr. Fred Bortz examines both the human tragedy and the scientific implications of the nuclear meltdown. Compare this disaster to similar nuclear events in the United States and in Ukraine, and move ahead with Dr. Bortz as he explores the global debate about the future of nuclear power and alternative sources of energy.

Earth and Space

Pfeffer, Susan Beth. *Life as We Knew It*. 2006. 352p. Harcourt, \$17 (0-15-205826-5).

Gr. 7–10High school sophomore Miranda's disbelief turns to fear in a split second when an asteroid knocks the moon closer to Earth, like "one marble hits another." The result is catastrophic. How can her family prepare for the future when worldwide tsunamis are wiping out the coasts, earthquakes are rocking the continents, and volcanic ash is blocking out the sun? As August turns dark and wintery in northeastern Pennsylvania, Miranda, her two brothers, and their mother retreat to the unexpected safe haven of their sunroom, where they subsist on stockpiled food and limited water in the warmth of a wood-burning stove. Told in a year's worth of journal entries, this heart-pounding story chronicles Miranda's struggle to hold on to the most important resource of all—hope—in an increasingly desperate and unfamiliar world. An extraordinary series debut! Susan Beth Pfeffer has written several companion novels to *Life As We Knew It*, including *The Dead and the Gone*, *This World We Live In*, and *The Shade of the Moon*.

Mullin, Mike. *Ashfall*. 2012. 476p. Tanglewood, \$12, (1-933-71874-9)

Under the bubbling hot springs and geysers of Yellowstone National Park is a supervolcano. Most people don't know it's there. The caldera is so large that it can only be seen from a plane or satellite. It just could be overdue for an eruption, which would change the landscape and climate of our planet. For Alex, being left alone for the weekend means having the freedom to play computer games and hang out with his friends without hassle from his mother. Then the Yellowstone supervolcano erupts, plunging his hometown into a nightmare of darkness, ash, and violence. Alex begins a harrowing trek to search for his family and finds help in Darla, a travel partner he meets along the way. Together they must find the strength and skills to survive and outlast an epic disaster.

Card, Orson Scott. *Ender's Game*. 1994. 352p. Tor Science Fiction, \$8 (0-812-55070-6)

In order to develop a secure defense against a hostile alien race's next attack, government agencies breed child geniuses and train them as soldiers. A brilliant young boy, Andrew "Ender" Wiggin lives with his kind but distant parents, his sadistic brother Peter, and the person he loves more than anyone else, his sister Valentine. Peter and Valentine were candidates for the soldier-training program but didn't make the cut—young Ender is the Wiggin drafted to the orbiting Battle School for rigorous military training. Ender's skills make him a leader in school and respected in the Battle Room, where children play at mock battles in zero gravity. Yet growing up in an artificial community of young soldiers, Ender suffers greatly from isolation, rivalry from his peers, pressure from the adult teachers, and an unsettling fear of the alien invaders. His psychological battles include loneliness, fear that he is becoming like the cruel brother he remembers, and fanning the flames of devotion to his beloved sister. Is Ender the general Earth needs? But Ender is not the only result of the genetic experiments. The war with the Buggers has been raging for a hundred years, and the quest for the perfect general has been underway for almost as long. Ender's two older siblings are every bit as unusual as he is, but in very different ways. Between the three of them lie the abilities to remake a world. If the world survives, that is.

Shepard, Alan. Slayton, Deke. *Moon Shot: The Inside Story of America's Race to the Moon*. 1994. 416p. Turner Publishing, \$8 (1878685546)

Marking the twenty-fifth anniversary of the first moon landing, two former astronauts tell of the intense human drama behind the lunar race between two superpowers, and of the sacrifices and risks asked of the American crew.

Kraus, Lawrence M. *The Physics of Star Trek*. 2007. 280p. Basic Books, \$10 (0-465-00204-8)

What warps when you're traveling at warp speed? What is the difference between a wormhole and a black hole? Are time loops really possible, and can I kill my grandmother before I am born? Anyone who has ever wondered "could this really happen?" will gain useful insights into the *Star Trek* universe (and, incidentally, the real world of physics) in this charming and accessible guide. Lawrence M. Krauss boldly goes where *Star Trek* has gone-and beyond. From Newton to Hawking, from Einstein to Feynman, from Kirk to Picard, Krauss leads readers on a voyage to the world of physics as we now know it and as it might one day be.

Cavelos, Jeanne. *The Science of Star Wars*. 2000. 256p. St. Martin's Griffin, \$10 (0-312-26387-2)

Former NASA astrophysicist Jeanne Cavelos examines the scientific possibility of the fantastical world of *Star Wars*. She explains to non-technical readers how the course of science might soon intersect with such fantasies as interstellar travel, robots capable of thought and emotion, habitable alien planets, bizarre intelligent life forms, high-tech weapons and spacecraft, and advanced psychokinetic abilities. She makes complex physics concepts, like quantum mechanics, wormholes, and Einstein's theory of relativity both fascinating and easy to comprehend. *The Science of Star Wars* does for *Star Wars* what Lawrence Krauss's bestselling *The Physics of Star Trek* did for the *Star Trek* universe.

Cavelos answers questions like:

- * How might spaceships like the Millennium Falcon make the exhilarating jump into hyperspace?
- * Could a single blast from the Death Star destroy an entire planet?
- * How close are we to creating robots that look and act like C-3PO and R2-D2?
- * Could light sabers possibly be built, and if so, how would they work?
- * Do *Star Wars* aliens look like "real" aliens might?
- * What kind of environment could spawn a Wookiee?
- * What would living on a desert planet like Tatooine be like?
- * Why does Darth Vader require an artificial respirator?
- * Can we access a "force" with our minds to move objects and communicate telepathically with each other?

Rusch, Elizabeth. *The Mighty Mars Rovers: The Incredible Adventures of Spirit and Opportunity*. 2012. 80p. HMH Books for Young Readers. \$10 (0-547-47881-X)

On June 10, 2003, a little rover named Spirit blasted off on a rocket headed for Mars. On July 7, 2003, a twin rover named Opportunity soared through the solar system with the same mission: to find out if Mars ever had water that could have supported life. A thrilling addition to the acclaimed *Scientists in the Field* series, *The Mighty Mars Rovers* tells the greatest space robot adventure of all time through the eyes—and heart—of Steven Squyres, professor of astronomy at Cornell University and lead scientist on the mission. This suspenseful page-turner captures the hair-raising human emotions felt during the adventures with two tough rovers.

Spinelli, Jerry. *Smiles to Go*. 2009. 272p. HarperCollins. \$7 (0-064-47197-7)

Ninth grader Will Tuppence is in control. He plans everything obsessively, from the perfect stargazing night with his crush, Mi-Su, to the regular Saturday-night games of Monopoly with his friends. He's even planned his entire adulthood: career as an astronomer; mint condition, black 1985 Jaguar XJS/12; two kids. . . . But everything changes the day Will learns one startling fact: protons—those tiny atomic particles, the building blocks to the building blocks of life—can die. The one thing that was so certain in this world to Will has an expiration date. And Will's carefully planned-out life? Not so certain, either.

Morris, Richard. *What's so Mysterious about Meteorites?*. 2012. 100p. Mountain Press. \$15 (978-0878425914)

Every product we use, every new invention we create, every single thing we surround ourselves with comes from this Earth, with one exception—meteorites. These exotic rocks have experienced journeys of cosmic proportions by the time we lay eyes on them. In the bitter cold temperatures of space, powerful collisions between asteroids scatter rocky debris in all directions, and some of it ends up on Earth. Authors Richard and Dorothy Norton explain where these mysterious rocks come from, what they're made of, and what happens

when asteroids strike Earth. Explore how radiant fireballs are cataclysmically related to impact craters, discover helpful hints that guide readers on the dos and don'ts of meteorite hunting, and learn how to properly distinguish meteorites from "meteorwrongs" with examples that are truly out of this world. This third book in the What's So Cool About Geology series is sure to pique your interest as you learn what these extraterrestrial rocks tell us about the origins of our solar system.

Autobiographies

Grandin, Temple. *Temple Grandin: How the Girl Who Loved Cows Embraced Autism and Changed the World*. 2014. 960p. HMH Books for Young Readers. \$10 (0-544-33909-6)

When Temple Grandin was born, her parents knew she was different. Years later she was diagnosed with autism. Temple's doctor recommended institutionalizing her, but her mother believed in her. Temple went to school instead. Today, Dr. Temple Grandin, a scientist and professor of animal science at Colorado State University, is an autism advocate and her world-changing career revolutionized the livestock industry. This compelling biography and Temple's personal photos take us inside her extraordinary mind and open the door to a broader understanding of autism.