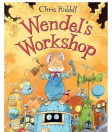
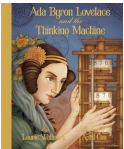



Early Elementary STEM Book Recommendations


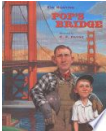
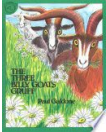
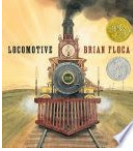

(Highlighted books are located in the CPS Virtual Library)

([TeachingBooks.net](https://www.teachingbooks.net) list - Username: cps Password: cps)

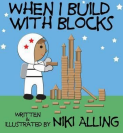
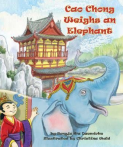
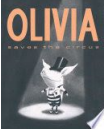

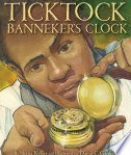
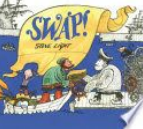
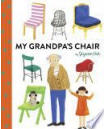

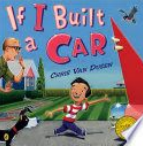
Coding and Robots

Title	Author	Summary
 Doll-E 1.0	McCloskey, Shanda	Charlotte has a talent for anything technological, so when she receives a doll as a present, she upgrades it with a few spare parts and some code to create a new and improved friend.
 Wendel's Workshop	Riddell, Chris	Wendel invents a robot to clean up his workshop, but has to come up with another solution when that robot gets out of control.
 Ada Byron Lovelace and the Thinking Machine	Wallmark, Laurie	When Ada Lovelace meets Charles Babbage, the inventor of the first mechanical computer, she understands the machine better than anyone else and writes the world's first computer program.
 If I Had A Robot	Yaccarino, Dan	Phil imagines the advantages of having a robot, from feeding it his vegetables to becoming king of the playground.

Bridges and Construction

Title	Author	Summary
 <p>Twenty-One Elephants</p>	Bildner, Phil	Eight-year old Hannah, upon completion of the Brooklyn Bridge, enlists the help of P.T. Barnum and his twenty-one elephants to prove to her father and all of Brooklyn that the bridge is safe.
 <p>Pop's Bridge</p>	Bunting, Eve	Robert and his friend Charlie are proud of their fathers, who are working on the construction of San Francisco's Golden Gate Bridge.
 <p>Three Billy Goats Gruff</p>	Galdone, Paul (or others)	Three billy goats, must outwit the big, ugly troll that lives under the bridge they have to cross on their way up the mountains.
 <p>Locomotive</p>	Floca, Brian	The building of the transcontinental railroad, the structure and mechanics of the locomotive, tasks of crew members, the passing American landscape, and experiences of passengers.
 <p>Twenty-one Elephants and Still Standing</p>	Prince, April Jones	After fourteen years of construction, the Brooklyn Bridge was completed, much to the delight of the sister cities it connected: Brooklyn and New York City. But some wondered if the bridge was safe...
 <p>Look at That Building!</p>	Ritchie, Scot	Young readers are introduced to basic construction concepts through the eyes of five friends keen on building a doghouse for their pet pooch, Max.

Creativity and Design

Title	Author	Summary
 <p>When I Build with Blocks</p>	Alling, Niki	When I Build With Blocks, transports an everyday classroom into various imaginative scenes - from outer space to the ocean.
 <p>Cao Chong Weighs an Elephant</p>	Daemicke, Songju Ma	2,000 years ago in China, a curious boy named Cao Chong solves the problem of how to weigh an elephant when the prime minister's most trusted and knowledgeable advisors are unable.
 <p>Olivia Saves the Circus</p>	Falconer, Ian	At school, Olivia tells about her summer vacation and how, when she went to the circus and all the performers were out sick, she saved the day.
 <p>Changes, Changes</p>	Hutchins, Pat	The little wooden couple's building-block house catches fire. The solution? They transform the house into a fire engine! But then there's so much water that they have to build a boat...
 <p>Ticktock Banneker's Clock</p>	Keller, Shana	A young Benjamin Banneker takes inspiration from a pocket watch to invent a larger clock that chimes. He perseveres over many months to imagine, revise, and complete his invention.
 <p>Swap!</p>	Light, Steve	A little pirate uses ingenious thinking to barter items on hand for the items he needs to help a down-on-his-luck sailor.
 <p>My Grandpa's Chair</p>	Pak, Jiyeon	Julie's grandfather is looking for a new chair. But no matter what kind of chair he tries, he can never seem to find the right one.
 <p>The Most Magnificent Thing</p>	Spires, Ashley	A little girl has a wonderful idea. With the help of her canine assistant, she is going to make the most magnificent thing!
 <p>If I Built a Car</p>	Van Dusen, Chris	When young Jack decides to build the car of his dreams using his imagination and creativity, the result is a one-of-a-kind, futuristic machine that can travel by air or underwater...

Houses and Shelter

Title	Author	Summary
 <p>Building a House</p>	Barton, Byron	A machine digs a big hole. A cement mixer pours cement. Carpenters put up walls. Bricklayers, electricians, plumbers, and painters do their part. Through simple words and pictures we follow each step, and before our eyes a house is built.
 <p>Olivia Says Good Night</p>	Falconer, Ian	After reading a story about a princess who has an adventure in the desert, Olivia is inspired to build a tent just like the one in the story.
 <p>Camp Rex</p>	Idle, Molly	What could be more fun than a camping trip with a good friend? When that friend is T. Rex though it's important to set a few safety guidelines first!
 <p>The Three Little Pigs</p>	Marshall, James (or others)	Three little pigs set off to build themselves new homes. But someone big and bad soon comes looking for a tasty piggy snack...Can the pigs outwit the wicked wolf?
 <p>If I Built a House</p>	Van Dusen, Chris	Imaginative Jack describes the kind of house he would build - one with a racetrack, a flying room, and a gigantic slide.


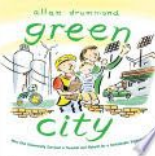
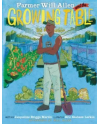

Architecture and Buildings

Title	Author	Summary
 <p>Iggy Peck, Architect</p>	<p>Beaty, Andrea</p>	<p>Iggy has one passion: building. When his second-grade teacher declares her dislike of architecture, Iggy faces a challenge. He loves building too much to give it up!</p>
 <p>The Three Little Pigs: An Architectural Tale</p>	<p>Guarnaccia, Steven</p>	<p>In this artsy retelling of “The Three Little Pigs,” the pigs and their homes are nods to three famous architects—Frank Gehry, Philip Johnson, and Frank Lloyd Wright—and their signature homes.</p>
 <p>Maya Lin: Artist, Architect of Light and Line</p>	<p>Harvey, Jeanne Walker</p>	<p>The bold story of Maya Lin, the visionary artist-architect who designed the Vietnam Veterans Memorial.</p>
 <p>Peterrific</p>	<p>Kann, Victoria</p>	<p>Peter loves to build with his blocks. He decided to build a tower out of blocks high enough to reach the stars and the moon all by himself. But once he’s up there, he can he get down easily?</p>
 <p>Roberto The Insect Architect</p>	<p>Laden, Nina</p>	<p>No one will hire Roberto the architect because he also happens to be a termite, so he sets off to the city to find success on his own.</p>
 <p>Up! Up! Up! Skyscraper</p>	<p>Suen, Anastasia</p>	<p>Snappy rhymes invite young readers to watch workers dig, pour, pound, and bolt a skyscraper into existence. Simple sidebars provide further information about the construction process.</p>
 <p><u>The World is not a Rectangle: A Portrait of Architect Zaha Hadid</u></p>	<p>Winter, Jeanette</p>	<p>Zaha Hadid grew up in Baghdad, Iraq, and dreamed of designing her own cities. After studying architecture in London, she opened her own studio and started designing buildings.</p>

Science and Engineering

Title	Author	Summary
 <p>Ada Twist, Scientist</p>	<p>Beaty, Andrea</p>	<p>When her house fills with a horrific, toe-curling smell, Ada knows it's up to her to find the source. Not afraid of failure, she embarks on a fact-finding mission, all in the name of discovery.</p>
 <p>Rosie Revere, Engineer</p>	<p>Beaty, Andrea</p>	<p>When her great-great-aunt Rose comes for a visit and mentions her one unfinished goal - to fly - Rosie sets to work building a contraption to make her aunt's dream come true.</p>
 <p>Counting on Katherine: How Katherine Johnson Saved Apollo 13</p>	<p>Becker, Helaine</p>	<p>You've likely heard of the historic Apollo 13 moon landing. But do you know about the mathematical genius who made sure that Apollo 13 returned safely home?</p>
 <p>Solving the Puzzle Under the Sea: Marie Tharp Maps the Ocean Floor</p>	<p>Burleigh, Robert</p>	<p>This illustrated biography shares the story of female scientist, Marie Tharp, a pioneering woman scientist and the first person to ever successfully map the ocean floor.</p>
 <p>Mr. Ferris and His Wheel</p>	<p>Davis, Kathryn</p>	<p>This illustrated biography sheds light on how the American George Ferris defied gravity and seemingly impossible odds to invent the iconic amusement park attraction, the Ferris wheel.</p>
 <p>Shark Lady: The True Story of How Eugenie Clark Became the Ocean's Most Fearless Scientist</p>	<p>Keating, Jess</p>	<p>By thinking differently and using research, Eugenie Clark changed people's perceptions about female scientists and sharks.</p>
 <p>The Doctor with an Eye for Eyes: The Story of Dr. Patricia Bath</p>	<p>Mosca, Julia Finley</p>	<p>Patricia Bath made it her mission to become a doctor. When obstacles threatened this goal, she persevered--brightening the world with a game-changing treatment for blindness!</p>

Ecology and Entrepreneurship

Title	Author	Summary
 <p>What Does It Mean to Be an Entrepreneur?</p>	<p>DiOrio, Rana and Dryden, Emma D.</p>	<p>When Rae witnesses an ice cream-and-doggie mishap, she's inspired to create a big-scale solution to help get dogs clean.</p>
 <p>Green City: How One Community Survived a Tornado and Rebuilt for a Sustainable Future</p>	<p>Drummond, Allan</p>	<p>When a tornado destroyed Greensburg, Kansas, in 2007, the citizens designed multiple solutions for making their city tornado-proof as well as environmentally sustainable.</p>
 <p>Farmer Will Allen and the Growing Table</p>	<p>Martin, Jacqueline Briggs</p>	<p>The inspirational story of former basketball player Will Allen and his quest to start a vegetable garden in a city filled with pavement.</p>
 <p>The Girl Who Thought in Pictures: The Story of Dr. Temple Grandin</p>	<p>Mosca, Julia Finley</p>	<p>Animal scientist Dr. Temple Grandin would eventually overcome the challenges of autism to design animal husbandry techniques to more humanely treat livestock in the meat industry.</p>

