



Infrastructure and Utilities Resource List for Grades K through 4

The Resources in this document can be used with the Infrastructure Curriculum Packet for grades K through 4.

Books

Non-fiction and Biography

- Engineer It! Bridge Projects (Super Simple Engineering Projects), 2017 by Carolyn Bernhardt (Author).
Readers will learn about different types of bridges with Engineer It! Bridge Projects. They will discover how bridges are built. Then, build their own suspension bridge, truss bridge, and more. Each project has color photos and easy-to-follow instructions.
- Engineer It! Canal Projects (Super Simple Engineering Projects), 2017 by Carolyn Bernhardt (Author).
Readers will learn about different uses for canals with Engineer It! Canal Projects. They will discover how canals are built. Then, use clay, LEGOs, and more to build their own canals. Each project has color photos and easy-to-follow instructions.
- Engineer It! Road Projects (Super Simple Engineering Projects), 2017 by Carolyn Bernhardt (Author).
Readers will learn about the history of roads with this book. They will discover how roads are built. Then, build their own cobblestone road, design a highway, and more. Each project has color photos and easy-to-follow instructions.
- Flush! Treating Waste Water, 1995 by Karen Mueller Coombs (Author) Jerry Boucher (Illustrator).
Examines the topic of water purification, looking at the history of sewage disposal through the centuries to the present, and answers such questions as "Is waste water smelly?"
- Going Underground: City Infrastructure, 2007 by Buffy Silverman (Author).
Have you ever imagined what happens beneath city streets? Read this book to discover the hidden world under your feet!
- How Cities Work, 2016 by Lonely Planet Kids (Author), Jen Feroze (Author), James Gulliver Hancock (Illustrator).
Learn about skyscrapers, subway systems and stinky sewers. Discover where people live and peek behind closed doors to see what's going on in houses and apartments, or why not find out about what goes on underneath the streets you walk on every day?
- How Did They Build That? Road (Community Connections), 2009 by Sharon Nittinger (Author).
Introduces the workers, techniques, and equipment used in building roads.
- How Water Gets from Treatment Plants to Toilet Bowls (Here to There), 2016 by Megan Cooley Peterson (Author).
Curious readers want to know how things work. Easy-to-understand text explains how water gets

to and from our homes and describes the role of the community workers who make it all possible.

- The Magic School Bus at the Waterworks, 2004 by JoAnna Cole (Author), Bruce Degen (Illustrator).
Join Ms. Frizzle and her students as they follow the trail of water, from its sky-high source to the school bathroom sink on this wet and wild fieldtrip. After parking the school bus on a cloud and shrinking to raindrop size, Ms. Frizzle's class gets to see the waterworks from the water's point of view.
- Peeking Under the City (What's Beneath), 2016 by Esther Porter (Author), Andrés Lozano (Illustrator).
Tap into kids' natural curiosity by pulling back the curtain on the below-ground workings of a typical big city. High-density, fun-to-explore illustrations and inviting text showcase water and sewer systems, transportation lines, and more.
- Roadwork (Construction Crew), 2017 by Sally Sutton (Author), Brian Lovelock (Illustrator).
There are many big machines and busy people involved in building a road, and this book follows them every step of the way. From clearing a pathway to rolling the tar to sweeping up at the end.
- Sewer Inspector (Gross Jobs), 2015 by Arnold Ringstad (Author).
Learn more about sewer inspectors, including what they do on a typical day, what the grossest parts of the job are, and what technology they use to stay safe and make the job less gross.
- Toilet: How it Works, 2015 by David Macaulay.
Everyone knows what a toilet is for, right? But what exactly happens after you flush? Where does our waste go, and how is it made safe?
- Where Things Are, From Near To Far, 2009 by Tim Halbur (Author), Chris Steins (Editor), David Ryan (Illustrator).
While playing in the city park, a boy wonders, who put these buildings here? His mother leads him on a whirlwind trip through the city, the country, and everything in-between to explain the answer. This engaging book is an easy introduction to the world of urban planning, and illustrates that every building has its place.

Fiction

- I Stink!, 2006 by Kate McMullan (Author), Jim McMullan (Illustrator).
With ten wide tires, one really big appetite, and an even bigger smell, this garbage truck's got it all. His job? Eating your garbage and loving every stinky second of it! And you thought nighttime was just for sleeping.
- Richard Scarry's Busy, Busy Town, 2000 by Richard Scarry (Author).
Join Lowly Worm, Huckle Cat, and other beloved characters for a day in Busy, Busy Town. Visit the school, the farm, the post office, and many more fun and exciting places in this classic book that teaches little ones all about what goes on in their very own communities.
- The Spaghetti Slurping Sewer Serpent, 2012 by Laura Ripes (Author), Aaron Zenz (Illustrator).
Sammy Sanders can't sleep. He is 77 percent sure that a spaghetti-slurping serpent lives in his sewer. Sammy and his sidekicks his sister, Sally, and their slobbery dog, Stan set out to discover the truth. What Sammy finds is a surprise in this tongue twisting mystery featuring the slippery letter S.
- Tap Tap Boom Boom, 2017 by Elizabeth Bluemle (Author), G. Brian Karas (Illustrator).

The clouds are gathering above a city street and soon, tap, tap, boom, boom! As a thunderstorm rolls in, people of all stripes race down to the subway to get away from the crackling rain and wind.

- The Very Sneezzy Garbage Truck, 2016 by Marc Schmatjen (Author), Karina Luong (Illustrator). Trash is flying all over Biggsville! Bobby the Garbage Truck can't stop sneezing, and he and his friends don't know why. They're working together to get through the mess, but can Bobby and his buddies Willy the Street Sweeper and Sam the Fire Engine solve the mystery of The Very Sneezzy Garbage Truck before the whole town is covered in trash?
- Zoom! Beep! Vroom! Busy Cities, 2018 by duopress labs (Author), Josh Cleland (Illustrator). Cars and trucks whoosh in Chicago, a bullet train zooms in Hong Kong, and a bicycle strolls around Paris (ding-ding!). Cities around the world are always on the move, and this lively book puts young reader's in the driver's seat with a cacophony of sounds right on the streets of some of the most exciting metropolises on the planet.

Magazines, Journals, Miscellaneous

- Jobsite Juniors: construction fun for kids 5 to 10 years of age. Packed full of education, games and cool pictures of trucks, bulldozers and other equipment.
<https://jobsitejuniors.com/>

Online Links

- Bash the Trash: Building, Performing & Educating With Musical Instruments Made From Trash Since 1991
<https://www.bashthetrash.com/kidscorner>
- The Museum of the City of New York: The Greatest Grid Exhibition
<http://thegreatestgrid.mcny.org/>
- Smithsonian: National Postal Museum activities
<https://postalmuseum.si.edu/activities/>

Background information for the Educator

- Stanford University: Lesson plans for teaching about infrastructure.
<https://gpc.stanford.edu/infrastructure-lesson-2>