

## Chapter 7 Resources

\* Resource that includes diversity

+ Books provided in alternative formats from the National Library Service for the Blind and Physically Handicapped (NLS). Books marked IN PROCESS are currently being worked on and may be available before the start of your summer program.

### Books

\*Barnett, Mac. *Oh No! (Or How My Science Project Destroyed the World)*. Disney-Hyperion, 2010. 40 p. (978-1423123125). After winning the science fair with the giant robot she has built, a little girl realizes that there is a major problem.

Barretta, Gene. *Neo Leo*. Henry Holt, 2009. 40 p. (978-0805087031). Cleverly shows how Leonardo da Vinci's ideas foreshadowed modern inventions. At once an artist, inventor, engineer, and scientist, da Vinci wrote and drew detailed descriptions of what would later become hang gliders, automobiles, robots, and much more.

+Barretta, Gene. *Now and Ben: The Modern Inventions of Benjamin Franklin*. Henry Holt, 2006. 36 p. (978-0805079173). Presents an introduction to the inventions of Benjamin Franklin, one of the nation's most beloved figures, who is credited with introducing bifocals, daylight savings time, lightning rods, and post offices. BR017002, BRC00851

Barretta, Gene. *Timeless Thomas: How Thomas Edison Changed Our Lives*. Henry Holt, 2012. 40 p. (978-0805091083). Shares a portrait of the inventor famed for such innovations as the incandescent light bulb, batteries, and movie cameras, exploring his life-changing achievements and perseverance in the face of numerous failures.

\*Bloch, Serge. *3, 2, 1 ... DRAW!* Wide Eyed Editions, 2016. 80 p. (978-1847807748, pap.). This activity book invites readers to reimagine everyday objects.

\*Brown, Jordan D. *Science Stunts: Fun Feats of Physics*. Imagine, 2016. 80 p. (978-1623540647). Dr. Dazzleberry narrates this high-action book of magic tricks based in physics concepts, such as gravity, inertia, and more.

\*Dávila, Claudia. *Luz Makes a Splash*. Kids Can, 2012. 96 p. (978-1554537624). When the city restricts water usage, Luz, with her friends and neighbors, strive to conserve and reuse what little water they have access to and protest the new soda factory using the springwater at a nearby pond.

+Ehlert, Lois. *RRRalph*. Beach Lane, 2011. 40 p. (978-1442413054). The narrator describes discovering how Ralph the dog can talk, appropriately saying words such as *roof*, *rough*, *bark*, and *wolf*. DBC05433

+Frazee, Marla. *Roller Coaster*. HMH Books for Young Readers, 2006. 32 p. (978-0152057442, pap.). Twelve people set aside their fears and ride a roller coaster, including one who has never done so before. BR015026

Gibbons, Gail. *How a House Is Built*. Holiday House, 1996. 30 p. (978-0823412327, pap.). Describes how the surveyor, heavy machinery operators, carpenter crew, plumbers, and other workers build a house.

Gordon, David. *Extremely Cute Animals Operating Heavy Machinery*. Simon & Schuster Books for Young Readers, 2016. 48 p. (978-1416924418). Adorable animals operate machinery and tools while taking on a bully.

Green, Dan. *Physics: Why Matter Matters!* Kingfisher, 2008. 128 p. (978-0753462140, pap.). Mixes science and art to bring the world of physics to life, with a gaggle of wacky characters to explain the building blocks of our universe.

Harris, Nicholas. *A Year at a Construction Site*. First Avenue, 2009. 24 p. (978-1580137959, pap.). Spend 12 months following the construction of a school building.

+Henkes, Kevin. *Penny and Her Marble*. Greenwillow, 2013. 48 p. (978-0062082053, pap.). Penny feels guilty after taking a beautiful blue marble that she sees in Mrs. Goodwin's grass but gets a pleasant surprise when she goes to return it the next day. BR019841

\*Heos, Bridget. *Let's Meet a Construction Worker*. Millbrook Press Trade, 2013. 24 p. (978-1467707992, pap.). A class takes a field trip to a construction site, where the students learn about techniques, machinery, and safety.

Horvath, James. *Build, Dogs, Build: A Tall Tail*. HarperCollins, 2013. 40 p. (978-0062189677). The doggy construction crew returns for an ambitious development project involving the demolition of an old building and the construction of a new high-rise with a shiny pet-house apartment on top.

\*Isabella, Jude. *The Red Bicycle: The Extraordinary Story of One Ordinary Bicycle*. Kids Can, 2015. 32 p. (978-1771380232). This nonfiction picture book tells the story of a bicycle that finds new life after traveling across the Atlantic Ocean to West Africa.

\*+Kamkwamba, William, and Bryan Mealer. *The Boy Who Harnessed the Wind*. Dial, 2015. 304 p. (9780803740808). In this memoir adapted for young readers, Kamkwamba describes the drought that struck his tiny village in Malawi, his subsequent interest in science, and his idea to build a windmill. Made out of scrap metal and old bicycle parts, his windmill brought electricity to his home and helped his family pump the water they needed to farm the land. DB072673

Kilby, Don. *At a Construction Site*. Kids Can, 2006. 24 p. (978-1553379874, pap.). Simple text and detailed illustrations introduce the vehicles found at a construction site.

+Krull, Kathleen. *The Boy Who Invented TV: The Story of Philo Farnsworth*. Knopf Books for Young Readers, 2009. 40 p. (978-0375845611). This picture-book biography explains how Farnsworth held on to his dream to develop television and the scientific concepts behind it. DB071538

+McCarthy, Meghan. *Pop! The Invention of Bubble Gum*. Simon & Schuster/Paula Wiseman, 2010. 40 p. (978-1416979708). Full of fun historical facts, this book is the true story of how bubblegum was invented. DB071676

Munsch, Robert. *The Paper Bag Princess*. Annick, 1980. 32 p. (978-0920236161, pap.). Princess Elizabeth is set to marry Prince Ronald when a dragon attacks the castle and kidnaps Ronald. In resourceful fashion, Elizabeth finds the dragon, outsmarts him, and rescues Ronald—who is less than pleased by her un-princess-like appearance.

Murphy, Sally. *Toppling*. Candlewick, 2012. 128 p. (978-0763659219). All John cares about is setting the world record for knocking down dominoes and spending time with his best friends at school, until his closest friend, Dom, is hospitalized, leaving John and the gang wondering what to do for him.

+O'Connor, Jane. *Nancy Clancy, Super Sleuth*. HarperCollins, 2013. 144 p. (978-0062084194, pap.). When their teacher's prized blue marble goes missing, Nancy and her best friend are on the case. BR019820

Otfinoski, Steven. *Recycling and Upcycling: Science, Technology, Engineering*. C. Press/F. Watts Trade, 2016. 64 p. (978-0531232200, pap.). From leftover food to packaging materials to outdated or broken technology, humans produce an enormous amount of waste. Readers will find out how some of today's top innovators are working to find new recycling methods and cut down on the amount of trash in landfills. They will also learn how recycling has grown in popularity over time and find out what kinds of careers are involved in this rapidly growing industry.

\*Paul, Miranda. *One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia*. Millbrook, 2015. 32 p. (978-1467716086). Plastic bags are cheap and easy to use. But what happens when a bag breaks or is no longer needed? In Njau, Gambia, people simply dropped the bags and went on their way. One plastic bag became two. Then 10. Then 100.

\*Piven, Hanoch. *Let's Make Faces*. Atheneum Books for Young Readers, 2013. 40 p. (978-1416915324). Learn how to find faces in unexpected places using everyday objects.

\*Piven, Hanoch. *My Dog Is as Smelly as Dirty Socks*. Schwartz & Wade, 2007. 40 p. (978-0375840524). A young girl draws a family portrait, then makes it more accurate by adding common objects to show aspects of each family member's personality, such as her father's playfulness, her mother's sweetness, and her brother's strength.

Portis, Antoinette. *Not a Box*. HarperCollins, 2006. 32 p. (978-0061123221). To an imaginative bunny, a box is not always just a box.

Portis, Antoinette. *Not a Stick*. HarperCollins, 2007. 32 p. (978-0061123252). An imaginative young pig shows some of the many things that a stick can be.

Reynolds, Paul A. *Sydney and Simon Go Green!* Charlesbridge, 2015. 48 p. (978-1580896771). After discovering that a green sea turtle was harmed by plastic in the ocean, twin mice Sydney and Simon come up with a creative campaign to increase recycling and reduce the amount of trash created in their home, school, and town.

Ross, Kathy. *Earth-Friendly Crafts: Clever Ways to Reuse Everyday Items*. Millbrook, 2011. 48 p. (978-0761374091, pap.). Suggests a variety of crafty ways to reuse everyday items.

\*Rusch, Elizabeth. *Electrical Wizard: How Nikola Tesla Lit Up the World*. Candlewick, 2015. 56 p. (978-0763679781). Here is the story of the ambitious young man who brought life-changing ideas to America, despite the obstructive efforts of his hero-turned-rival, Thomas Edison. From using alternating current to light up the Chicago World's Fair to harnessing Niagara Falls to electrify New York City and beyond, Nikola Tesla was a revolutionary ahead of his time. Remote controls, fluorescent lights, X-rays, speedometers, cell phones, and even the radio—all resulted from Nikola Tesla's inventions.

Scheunemann, Pam. *Trash to Treasure: A Kid's Upcycling Guide to Crafts*. Mighty Media Junior Readers, 2013. 144 p. (978-1938063183, pap.). Step-by-step illustrated instructions for a variety of crafts involving repurposed materials.

+Scieszka, Jon. *The True Story of the 3 Little Pigs!* Puffin, 1996. 32 p. (978-0140544510, pap.). The wolf gives his own outlandish version of what really happened when he tangled with the three little pigs. IN PROCESS

\*Sharpe, Luke. *Billy Sure Kid Entrepreneur and the Invisible Inventor*. Simon Spotlight, 2016. 160 p. (978-1481461962, pap.). Billy has been working on an invisibility invention for years, but another inventor claims to have come up with one first.

\*Smith, Tamara Ellis. *Another Kind of Hurricane*. Schwartz & Wade, 2015. 336 p. (978-0553511932). The world itself seems to bring together Henry, whose best friend died near their home in the mountains of Vermont, and Zavion, who lost his home in Hurricane Katrina, so that the boys can help each other heal.

\*Tafolla, Carmen. *What Can You Do with a Paleta?/¿Qué puedes hacer con una paleta?* Dragonfly, 2014. 32 p. (978-0385755375, pap.). A young Mexican American girl celebrates the paleta, an icy fruit treat, and the many roles it plays in her lively barrio.

\*Tafolla, Carmen. *What Can You Do with a Rebozo?/¿Qué puedes hacer con un rebozo?* Tricycle, 2009. 32 p. (978-1582462714, pap.). A spunky young Mexican American girl explains the many uses of her mother's red rebozo, or long scarf.

+Thimmesh, Catherine. *Girls Think of Everything: Stories of Ingenious Inventions by Women*. HMH Books for Young Readers, 2002. 64 p. (978-0618195633, pap.). Tells the story of how women throughout the ages have responded to situations confronting them in daily life by inventing such items as correction fluid, space helmets, and disposable diapers. DB052628

Wallace, Karen. *Big Machines*. DK Children, 2000. 32 p. (978-0789454119, pap.). Demonstrates how the crane, bulldozer, dump truck, and other construction machines all play a part in building a new park.

Williams, Marcia. *Hooray for Inventors!* Candlewick, 2013. 40 p. (978-0763667498, pap.). With cartoon-style illustrations and easily digestible snippets of information, Williams provides the back story on a range of inventions, including the radio, the television, windshield wipers, and teddy bears.

## Web Resources

**Caine's Arcade.** <http://cainesarcade.com>. Videos and information about Caine's Arcade, a cardboard game arcade built by a nine-year-old in Los Angeles.

**Confetti Launcher.** <http://pbskids.org/designsquad/build/confetti-launcher/>. Step-by-step instructions for an open-ended confetti-launcher invention project.