



STEM & Literature

STEM is a curriculum based on the idea of educating students in four specific disciplines — science, technology, engineering and mathematics — in an interdisciplinary and applied approach. STEM integrates the four disciplines into a cohesive learning paradigm based on real-world applications.

Teaching Resources Center, Joyner Library A Selective Annotated Bibliography

Titles in the Teaching Resources Center are cataloged with Dewey call numbers and are preceded by Curric. Please ask someone at the Teaching Resources Service Desk if you need any assistance.

Lexile Score	Title Information	Call Number
SCIENCE		
BIG BOOKS		
N/A	Borella, Carol. <i>How Magnets Work</i> . Pelham, NY: Benchmark Education Co., 2002. This is a nonfiction, photo-illustrated Big book that introduces young children to the qualities of magnets.	BB B64482H
AD480L	Dotlich, Rebeca Kai. <i>What is Science?</i> Boston: Houghton Mifflin, 2006. Introduces young children to the ever-changing world of science and about curiosity, asking questions, and exploring possible answers.	BB D7424W

N/A	Glover, David. <i>How Does it Work?</i> Crystal Lake, IL: Rigby, 2000.	BB G5184H
	How do switches make fairgrounds fun? What makes a kite fly? Can sunlight bounce? How are echoes made? Discover the answers to these questions and more in these fantastic experiments that cover everything from making a burglar alarm to finding out how to split sunlight.	
	EASY	
N/A	Barnett, Marc. <i>Oh No! Or, How My Science Project Destroyed the World.</i> New York: Disney-Hyperion Books, 2010.	E B2646O
	After winning the science fair with the giant robot she has built, a little girl realizes that there is a major problem.	
AD550L	Beaty, Andrea. <i>Ada Twist, Scientist.</i> New York: Abrams Books for Young Readers, 2016.	E B3809A
	Ada Twist is a very curious girl who shows perseverance by asking questions and performing experiments to find things out and understand the world.	
520L	Blaisdell, Molly. <i>Up, Up in the Air.</i> Minneapolis, MN: Picture Window Books, 2008.	E B578U
	When Jamar sees a newspaper ad for a kite-flying contest, he and his dad go to the library and find books on making and flying kites. Jamar knows he is now ready for the contest.	
570L	Knudsen, Michelle. <i>Bugged!</i> New York: Kane Press, 2008.	E K781BU
	Tired of being covered in itchy mosquito bites, Riley uses science to investigate why mosquitoes are more attracted to him than to his friends.	
930L	Jackson, Alison. <i>Thea's Tree.</i> New York: Dutton Children's Books, 2008.	E J1322T
	Thea Teawinkle plants an odd, purple, bean-shaped seed in her backyard for her class science project, with astonishing results that even the experts she writes to--including a botanist, an arborist, a museum curator, and a symphony director--cannot offer any explanations for.	
AD600L	Lappano, Jon-Erik. <i>Tokyo Digs a Garden.</i> Toronto, ON: Groundwood Books, 2016.	E L317T
	Tokyo lives in a small house between giant buildings with his family and his	

cat, Kevin. For years, highways and skyscrapers have been built up around the family's house where once there were hills and trees. Will they ever experience the natural world again? One day, an old woman offers Tokyo seeds, telling him they will grow into whatever he wishes. Tokyo and his grandfather are astonished when the seeds grow into a forest so lush that it takes over the entire city overnight. Soon the whole city has gone wild, with animals roaming where cars once drove. But is this a problem to be surmounted, or a new way of living to be embraced?

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| 630L | Latta, Sara. <i>Stella Brite and the Dark Matter Mystery</i> . Watertown, MA: Charlesbridge, 2006. | E
L355S |
| | Stella and her brother Max, of the Brite and Brite Detective Agency, put the mystery of Mayor Pickle's missing Pekingese on hold as they join the astronomy club in researching the problem of invisible dark matter in the universe. | |
| 700L | Nolen, Jerdine. <i>Plantzilla</i> . San Diego, CA: Harcourt, 2002. | E
N717P |
| | In a series of letters, a boy, his science teacher, and his parents discuss the progress of a very unusual, sometimes frightening, plant that becomes more human as the summer progresses. | |
| AD850L | Orr, Katherine. <i>Me, Grandpa, and The Sea</i> . Minneapolis, MN: Carolrhoda Books, 1990. | E
OR75M |
| | When Grandpa, a traditional fisherman, is forced from his livelihood because increasingly efficient technology has depleted his island's supply of fish, he creates an ecologically sound solution by starting a sea moss farm. | |
| AD600L | Perkins, Lynn Rae. <i>Frank and Lucky Get Schooled</i> . New York: Greenwillow Books, 2016. | E
P4196F |
| | A boy and his dog learn about each other, go to school to learn more, then explore the world around them as they study science, geography and even foreign languages together. | |
| AD560L | Poydar, Nancy. <i>No Fair Science Fair</i> . New York: Holiday House, 2011. | E
P876N |
| | As the judging of his class's science fair approaches, Otis has trouble even thinking of an idea but once he has built a bird feeder he is determined to make some good observations, no matter how long it takes. | |
| NP | Scieszka, Jon. <i>Science Verse</i> . New York: Viking, 2004. | E
SCI279SC |
| | When the teacher tells his class that they can hear the poetry of science in everything, a student is struck with a curse and begins hearing nothing | |

but science verses that sound very much like some well-known poems.

NONFICTION

- N/A Bauer, Justin L. *What Every Science Student Should Know*. Chicago: The University of Chicago Press, 2016. 507.1 B3264W
- What Every Science Student Should Know is the perfect personal mentor for any aspiring scientist, meant to help students avoid pitfalls while providing much-needed encouragement. It covers the entire college experience including choosing a major, mastering study skills, doing scientific research, finding a job, and most important, how to foster and keep a love of science.
- 1070L Rusch, Elizabeth. *Impact! Asteroids and the Science of Saving the World*. Boston: Houghton Mifflin Harcourt, 2017. 523.44 R893I
- Asteroids come in all shapes and sizes--and hit our planet in them, too. But what happens if a catastrophically large one approaches earth? By looking on the ground at historical asteroid craters and present-day falls, and up into space for the big ones yet to come, a wide variety of scientists are trying to figure out how to track asteroids--and how to avoid devastating impacts in the future.
- 1160L Conkling, Winifred. *Radioactive! How Irene Curie & Lisa Meitner Revolutionized Science and Changed the World*. Chapel Hill, NC: Algonquin Young Readers, 2016. 539.7 C7615R
- The ... little-known story of how two brilliant female physicists' groundbreaking discoveries led to the creation of the atomic bomb.
- N/A Collard, Sneed B. *Hopping Ahead of Climate Change: Snowshoe Hares, Science, and Survival*. Missoula, MT: Bucking Horse Books, 2016. 599.328 C684H
- Scientists seek to answer the critical question "Can snowshoe hares and other animals that change their coat color each winter adapt to shorter winters caused by climate change?"
- N/A Schonberg, Monica. *I is for Idea: An Inventions Alphabet*. Chelsea, MI: Sleeping Bear Press, 2005. 600 SCH651I
- An A to Z introduction to modern inventions such as computers, microwave, umbrella, zipper and many more. Each invention is introduced with a poem and includes detailed-filled expository text.
- N/A Spilsbury, Richard. *The Science of the Brain*. New York: Gareth Stevens Publishing, 2018. (Also by author: *The Science of the Senses, The Science of the Digestive System, The Science of the Skeleton and Muscles, The Science of the Heart and Circulatory System, and The* 612.82 SP45SCB

Science of the Lungs and Respiratory System

Explores the human brain using simple flowcharts to break down difficult concepts into accessible chunks.

AD830L Floca, Brian. *Moonshot: The Flight of Apollo 11*. New York: Atheneum Books for Young Readers, 2009. 629.45 F651M

Here is the story of the Apollo 11 mission to the Moon -- a story of leaving and returning during the summer of 1969, and a story of home, seen whole, from far away by steady astronauts in their great machines.

AD740L McCarthy, Megan. *Pop! The Accidental Invention of Bubble Gum*. New York: Simon & Schuster Books for Young Readers, 2010. 664.6 M1276P

With historical facts, the book tells the true story of how bubble gum was invented by Walter Diemer, who was an accountant at the Fler Corporation, a factory in Philadelphia, in the late 1920s.

TECHNOLOGY

EASY

AD920L Bernasconi, Pablo. *Captain Arsenio: Inventions and (Mis)Adventures in Flight*. Boston: Houghton Mifflin, 2005. E B45695C

Pages from the recently discovered diary of Captain Manuel J. Arsenio, in which are recorded his many failed attempts to create a flying machine, starting in the 1780s with the Motocanary, progressing through the Aerial Submarine, the Hamstertronic, and three other disasters.

AD790L Brown, Peter. *The Flight of the Dodo*. New York: Little, Brown, 2005. E B81453F

Penguin and his other flightless bird friends invent a flying machine, but they fly right into a thunderstorm.

N/A Dodds, Dayle Ann. *Henry's Amazing Machine*. New York: Melanie Kroupa Books, 2004. E D6618H

Henry finally finds a purpose for the "Incredible, Amazing Machine" that he built.

N/A	Gall, Chris. <i>NanoBots</i> . New York: Little, Brown and Company, 2016.	E G1351N
	A young inventor accidentally creates a group of tiny robots that employ their unique abilities and teamwork to become incredibly useful--and maybe even change the world. Includes author's note on the science and uses of nano-robotics.	
AD540L	Gritton, Steve. <i>The Trouble With Sisters and Robots</i> . Morton Grove, IL: Albert Whitman & Co., 2009.	E G8897T
	After frantically trying to stop his out of control robot from turning everything it touches into metal, Kyle finally listens to his little sister's advice.	
N/A	McCloskey, Shanda. <i>Doll-E 1.0</i> . New York: Little, Brown and Company, 2018.	E M1327D
	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.	
80L	Milgrim, David. <i>Go, Otto, Go!</i> New York: Simon Spotlight, 2016.	E M598G
	Otto the robot builds a spaceship to take him home.	
AD570L	Olshan, Matthew. <i>A Voyage in the Clouds: The (Mostly) True Story of the First International Flight by Balloon in 1785</i> . New York: Farrar Straus and Giroux, 2016.	E OL83V
	Dr. John Jeffries and his pilot, Jean-Pierre Blanchard, each want to be the first man to fly from one country to another, across the English Channel. There's only one problem: they can't stand each other! Inspired by the true story of the first international flight.	
AD820L	Whelan, Gloria. <i>Queen Victoria's Bathing Machine</i> . New York: Simon & Schuster Books for Young Readers, 2014.	E W571Q
	Inspired by a true story, when Queen Victoria is unable to go swimming without her subjects glimpsing her in a swimming suit, her husband, Prince Albert, comes up with an innovative solution so his wife can indulge in the healthy exercise.	

NONFICTION

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| 580L | <p>Lyons, Heather. <i>Coding in the Real World</i>. Minneapolis, MN: Lerner Publications, 2018. (Also by author: <i>Programming Games and Animation</i>)</p> <p>With simple text, graphics, and hands-on activities, this book teaches readers about the ways coding is used in the complex inner workings of common items such as traffic lights and smoke detectors.</p> | <p>005.1
L9955COI</p> |
| 1140L | <p>Graham, Ian. <i>Super Cool Tech: Technology. Invention. Innovation</i>. New York: DK Publishing, 2016.</p> <p>Explores some of today's most impressive technological innovations and how they are shaping the world.</p> | <p>600
G7604S</p> |
| N/A | <p>Richards, Jon. <i>Today's Technology</i>. New York: Gareth Stevens Publishing, 2018.</p> <p>By the time someone turns 21, they'll likely have spent about 200 days of their life playing video games, and even more using a mobile phone. Readers know that technology is a huge part of our lives, but they might not know exactly how some of it works. This book uses labeled infographics accompanied by simple, understandable text to tackle both familiar technology, such as cell phones, and newer technology, like solar panels. Each infographic describes how the technology works, relating to readers' daily lives as well as the STEM curriculum.</p> | <p>600
R3918T</p> |
| 1110L | <p>Weinersmith, Kelly. <i>Soonish: Ten Emerging Technologies That'll Improve and/or Ruin Everything</i>. New York: Penguin Press, 2017.</p> <p>Cartoonist Zach Weinersmith (Saturday Morning Breakfast Cereal) and researcher Dr. Kelly Weinersmith give us a snapshot of what's coming next, from robot swarms to nuclear-fusion-powered toasters. By weaving their own research, interviews with the scientists who are making these advances happen, and Zach's trademark comics, the Weinersmiths investigate why these technologies are needed, how they would work, and what is standing in their way.</p> | <p>601.12
W4317S</p> |
| 900L | <p>Owen, Ruth. <i>Exploring Distant Worlds as a Space Robot Engineer</i>. United States: Ruby Tuesday Books, 2016.</p> <p>In <i>Exploring Distant Worlds as a Space Robot Engineer</i>, readers will meet the scientists who design and build robots, send them into space, and even drive the rovers that are exploring Mars today.</p> | <p>629.8
OW26E</p> |

NC650L Shores, Erika L. *Animal Robots*. North Mankato, MN: Capstone Press, 2015. 629.8
SH78A

Simple text and full-color photographs describe eight different robots that mimic animals and the work these robots do.

980L Swanson, Jennifer. *Super Gear: Nanotechnology and Sports Team Up*. Watertown, MA: Charlesbridge, 2016. 688.76
SW247S

Provides a look at sports and nanotechnology, and discusses how this science, which manipulates objects at the atomic level, is being used to create high-tech swimsuits, tennis rackets, golf clubs, running shoes, and other sporting equipment.

BIOGRAPHY

860L Krull, Kathleen. *The Boy Who Invented TV: The Story of Philo Farnsworth*. New York: Alfred A. Knopf, 2009. B
F237K

This picture-book biography explains how Farnsworth held on to his dream to develop television and the scientific concepts behind it.

N/A Wallmark, Laurie. *Ada Lovelace and the Thinking Machine*. Berkeley, CA: Creston Books, LLC, 2015. B
L942WA

Offers an illustrated telling of the story of Ada Byron Lovelace, from her early creative fascination with mathematics and science and her devastating bout with measles, to the ground-breaking algorithm she wrote for Charles Babbage's analytical engine.

ENGINEERING

EASY

N/A Barnett, Marc. *Oh No! Not Again! (Or How I Built a Time Machine to Save History) (Or at Least My History Grade)*. New York: Disney-Hyperion, 2012. E
B2646ONN

When she does not get a perfect score on her history test, a young girl builds a time machine to remedy the situation.

- AD640L Bean, Jonathan. *Building Our House*. New York: Farrar Straus Giroux, 2013. E
B375BU
- A young girl narrates her family's move from the city to the country, where they have bought a piece of land and live in a trailer while they build a house from the ground up, with help from relatives and friends.
- AD630L Bunting, Eve. *Pop's Bridge*. Orlando, FL: Harcourt, 2006. E
B886PO
- Robert and his friend Charlie are proud of their fathers, who are working on the construction of San Francisco's Golden Gate Bridge.
- AD480L Fleming, Candace. *Papa's Mechanical Fish*. New York: Margaret Ferguson Books, 2013. E
F62921P
- In the summer of 1851, with encouragement and ideas provided by his family, an inventor builds a working submarine and takes his family for a ride.
- NP Miyares, Daniel. *Float*. New York: Simon & Schuster Books for Young Readers, 2015. E
M6994F
- Wordless picture book about a boy who loses his paper boat in the rain
- N/A Paul, Alison. *The Plan*. New York: Houghton Mifflin Harcourt, 2015. E
P2811P
- Coping with a loss, a father and daughter rediscover an important piece of family history and begin to build a new life filled with adventure, in a book that features twenty letter-by-letter word shifts.
- AD380L Spires, Ashley. *The Most Magnificent Thing*. Toronto, ON: Kids Can Press, 2014. E
SP4819M
- A little girl has a wonderful idea. With the help of her canine assistant, she is going to make the most magnificent thing! She knows just how it will look. She knows just how it will work. But making the most magnificent thing turns out to be harder than she thinks.

NONFICTION

- AD920L Drummond, Allan. *Energy Island: How One Community Harnessed the Wind and Changed Their World*. New York: Farrar Straus Giroux, 2011. 333.9
D8443E
- It's windy on the Danish island of Samsø. Meet the environmentally friendly

folks who, in a few short years, worked together for energy independence, and who now proudly call their home Energy Island.

- AD810L Corey, Shana. *The Secret Subway*. New York: Schwartz & Wade Books, 2016. 388.4
C8129S
- In 1870, Alfred Ely Beach invents New York's first underground train.
- 910L Barretta, Gene. *Now & Ben: The Modern Inventions of Benjamin Franklin*. New York: Henry Holt and Co., 2006. 609
B2759N
- What would you do if you lived in a community without a library, hospital, post office, or fire department? If you were Benjamin Franklin, you'd set up these organizations yourself. Franklin also designed the lightning rod, suggested the idea of daylight savings time, and invented bifocals—all inspired by his common sense and intelligence. In this informative book, Gene Barretta brings Benjamin Franklin's genius to life, deepening our appreciation for one of the most influential figures in American history.
- 860L Kamkwamba, William. *The Boy Who Harnessed the Wind*. New York: Dial Books for Young Readers, 2012. 621.4
K1289B
- When 14-year-old William Kamkwamba's Malawi village was hit by a drought in 2001, everyone's crops began to fail. His family didn't have enough money for food, let alone school, so William spent his days in the library. He came across a book on windmills and figured out how to build a windmill that could bring electricity to his village. Everyone thought he was crazy but William persevered and managed to create a functioning windmill out of junkyard scraps. Several years later he figured out how to use the windmill for irrigation purposes.
- 1020L Spray, Sally. *Awesome Engineering Bridges*. North Mankato, MN: Capstone Press, 2018. (Also by author: *Awesome Engineering Tunnels*, *Awesome Engineering Spacecraft*, *Awesome Engineering Skyscrapers*, *Awesome Engineering Fairground Rides*, and *Awesome Engineering Trains, Planes, and Ships*.) 624.2
SP76A
- Follow the development of bridges, as they have grown longer and bigger, and more fantastical through engineering skill, design and ambition.
- 900L Owen, Ruth. *Exploring Distant Worlds as a Space Robot Engineer*. US: Ruby Tuesday Books, 2016. 629.8
OW26E
- In *Exploring Distant Worlds as a Space Robot Engineer*, readers will meet the scientists who design and build robots, send them into space, and even drive the rovers that are exploring Mars today.

AD550L	Hale, Christy. <i>Dreaming Up: A Celebration of Building</i> . New York: Lee & Low Books, Inc., 2012.	720 H13D
	A collection of concrete poetry, illustrations, and photographs that shows how young children's constructions, created as they play, are reflected in notable works of architecture from around the world.	
N/A	Akiyama, Lance. <i>Rubber Band Engineer: Build Slingshot-Powered Rockets, Rubber Band Rifles, Unconventional Catapults, and More Guerilla Gadgets from Household Hardware</i> . Beverly, MA: Rockport Publishers, 2016.	745.592 AK53R
	Discover unexpected ways to turn common materials into crafty contraptions that range from surprisingly simple to curiously complex. In color photos, you'll be guided to create slingshot rockets, unique catapults, and even hydraulic-powered machines. Whether you build one or all 19 of these designs, you'll feel like an ingenious engineer when you're through.	
BIOGRAPHY		
900L	Davis, Kathryn Gibbs. <i>Mr. Ferris and His Wheel</i> . New York: Houghton Mifflin Harcourt Publishing Company, 2014.	B F4172D
	Examines how the engineer George Ferris invented and constructed the amusement park ride that bears his name for the 1893 Chicago World's Fair.	
820L	Barton, Chris. <i>Whoosh! Lonnie Johnson's Super-Soaking Stream of Inventions</i> . Watertown, MA: Charlesbridge, 2016.	B J6347B
	Chronicles the life and achievements of the NASA engineer and inventor, from his childhood to his accidental invention of the Super Soaker water gun.	
AD720L	McCully, Emily Arnold. <i>Marvelous Mattie: How Margaret E. Knight Became and Inventor</i> . New York: Farrar Straus and Giroux, 2006.	B K745M
	Mattie Knight loved to make things ranging from a foot warmer for her mother or toys for her older brothers. Or, when she was 12, a metal guard to prevent shuttles from shooting off looms and hurting workers. Later, Mattie invented a machine that could cut and glue the square-bottomed paper bags we still use today. Meet the woman known as "the Lady Edison."	
AD1000L	Sweet, Melissa. <i>Balloons Over Broadway: The True Story of the Puppeteer of Macy's Parade</i> . Boston, MA: Houghton Mifflin Books for Children, 2011.	B SA731S
	Award-winning artist Sweet tells the story of the puppeteer Tony Sarg, capturing his genius, his dedication, his zest for play, and his long-lasting gift to	

America--the inspired helium balloons that would become the trademark of Macy's Thanksgiving Day Parade.

MATHEMATICS

BIG BOOKS

- 340L Hutchins, Pat. *The Doorbell Rang*. New York: Mulberry Books, 1994. (Also available at E H9708DOO) BB H9708DOO

Each time the doorbell rings, there are more people who have come to share Ma's wonderful cookies. This terrific and suspenseful read-aloud picture book about friendship, sharing, and cookies can also be used to introduce basic math concepts to young children.

EASY

- AD560L Fisher, Doris. *One Odd Day*. Mount Pleasant, SC: Sylvan Dell Pub., 2006. E F532O

A humorous, rhythmic, read-aloud story about a boy who awakens to find that everything around him is odd. He has three sleeves on his shirt, and his dog has five legs... Things are no better at school either. Will his odd day end when he goes to bed that night?

- N/A Gravett, Emily. *The Rabbit Problem*. New York: Simon & Schuster Books for Young Readers, 2010. E G788RA

In Fibonacci's Field, Lonely and Chalk Rabbit meet, snuggle together, and then spend a year trying to cope with their ever-increasing brood and the seasonal changes that bring a new challenge each month.

- N/A Harris, Robie H. *Crash! Boom! A Math Tale*. Somerville, MA: Candlewick Press, 2018. E H2435CR

Build, balance, count - question, estimate, measure - predict, crash, and build again with Elephant and a bucket full of blocks. Follow along as Elephant goes through the ups and downs of creating something new and finally celebrates the job of pride and success.

- AD550L Hosford, Kate. *Infinity and Me*. Minneapolis, MN: Carolrhoda Books, 2012. E H792I

After the sight of a night sky filled with stars makes eight-year-old Uma feel very small, she asks people how they think about infinity and gets a variety of

answers before realizing the comfort in knowing that some things go on forever.

- AD530L Kroll, Virginia L. *Equal Shmequal*. Watertown, MA: Charlesbridge, 2005. E
K9195E
- In order to have fun at a game of tug-of-war, forest animals balance the teams by using a see-saw. Includes nonfiction math notes for meanings of equal.
- 210L Lionni, Leo. *Inch by Inch*. Boston: HarperCollins, 1960. E
L661I
- To keep from being eaten, an inchworm measures a robin's tail, a flamingo's neck, a toucan's beak, a heron's legs, and a nightingale's song.
- NC850L Myller, Rolf. *How Big is a Foot?* New York: Dell Pub., 1990. E
M994H
- Thrown in jail because the bed he made for the Queen is too small, an apprentice comes up with a more accurate way of measuring size.
- 560L Scieszka, Jon. *Math Curse*. New York: Viking, 1995. E
SCI279M
- When the teacher tells her class that they can think of almost everything as a math problem, one student acquires a math anxiety which becomes a real curse.
- AD510L Sidman, Joyce. *Swirl by Swirl: Spirals in Nature*. Boston: Houghton Mifflin
Harcourt, 2011. E
SI139S
- Celebrates the shape of a spiral in nature, from rushing rivers to flower buds and even the shape of an ear.
- NONFICTION**
- 210L Alexander, Emmett. *Tamaños = Sort it by Size*. New York: Gareth Stevens
Publishing, 2016. 153.752
AL267T
- Small and large, short and tall, little and big, these are all words that help us describe size. This math concepts volume doesn't just 'tell'; it shows early learners the difference between concepts, introduces them to synonyms, and helps them learn to sort a group according to size. Classification is an important concept for the early elementary mathematics student, but the text and photographs in this book, including dogs, fish, and birds, make it fun!

N/A	Fishman, Seth. <i>A Hundred Billion Trillion Stars</i> . New York: Greenwillow Books, 2017.	510.2 F5398H
	A look at the numbers that surround us, big and small, on earth and in outer space.	
430L	First, Rachel. <i>Weigh It! Fun with Weight</i> . Minneapolis, MN: Sandcastle, 2016.	530.8 F5197W
	Provides an introduction to weight and the two systems that are used to measure it.	
AD560L	Leedy, Loreen. <i>Measuring Penny</i> . New York: Henry Holt, 1997.	530.8 L517M
	Lisa learns about the mathematics of measuring by measuring her dog Penny with all sorts of units, including pounds, inches, dog biscuits, and cotton swabs.	
NP	Tang, Greg. <i>The Grapes of Math: Mind-Stretching Math Riddles</i> . New York: Scholastic, 2001.	793.7 T156G
	Illustrated riddles introduce strategies for solving a variety of math problems in using visual clues.	

BIOGRAPHY

AD550L	Heiligman, Deborah. <i>The Boy Who Loved Math: The Improbable Life of Paul Erdős</i> . New York: Roaring Brook Press, 2013.	B ER29H
	Growing up in Hungary during WWI, Erdos tried school but chafed at the rules and convinced his mother that he should study at home. He was fascinated by numbers from an early age, and by the time he was 20, he was known as The Magician from Budapest. Unable to do common tasks such as cooking, laundry, or driving, he spent his adult life flying around the world, staying with other mathematicians, and working collaboratively on challenging math problems.	

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