

Upper Merion Township Library's

STEM TITLES FOR MIDDLE SCHOOL

Science

- *Sugar Changed the World: A Story of Magic, Spice, Slavery, Freedom, and Science* by Marc Aronson (J664 ARO)
- *The Day-Glo Brothers: The True Story of Bob and Joe Switzer's Bright Ideas and Brand-New Colors* by Chris Barton (J535 BAR)
- *A Problematic Paradox* by Eliot Sappingfield (J SCI FI SAPPINGFIELD)
- *Girling Up: How to be Strong, Smart, and Spectacular* by Mayim Bialik (YA305.235 BIA)
- *Boying Up: How to be Brave, Bold, and Brilliant* by Mayim Bialik (YA305.2351 BIA)
- *Felix YZ* by Lisa Bunker (J SCI FI BUNKER)
- *The Book of Ingeniously Daring Chemistry* by Sean Connolly (J540.78 CON)
- *Science Ethics and Controversies* by Eve Hartman (J174 HAR)

DIY Activities

- *The Big Book of Maker Space Projects* by Colleen Graves (629.89 GRA)
- *Robotics: Discover the Science and Technology of the Future with 20 Projects* by Kathy Ceceri (J629.8 CEC)
- *Star Wars Maker Lab* (J745.5083 STA)
- *Scrumptious Cookies with a Side of Science* by M.M. Eboch (J641.86 EBO)
- *Maker Lab: 28 Super Cool Projects: Build, Invent, Create, Discover* by Jack Challoner (J507.8 MAK)
- *STEAM Kids: 50+ Science/ Technology/ Engineering/ Art/ Math Hands On Projects for Kids* by Anne Carey (J507.8 STE)

Biographies

- *Steve Jobs: The Man Who Thought Different* by Karen Blumenthal (JB JOBS)
- *Phineas Gage: A Gruesome But True Story about Brain Science* by John Fleischman (JB GAGE)
- *Temple Grandin: How the Girl who Loved Cows Embraced Autism and Changed the World* by Sy Montgomery (JB GRANDIN)
- *Women in Science: 50 Fearless Pioneers Who Changed the World* by Rachel Ignatofsky (J509.2 IGN)
- *Higher, Steeper, Faster: the Daredevils who Conquered the Skies* by Lawrence Goldstone (J629.13092 GOL)
- *Rachel Carson: A Twentieth-Century Life* by Ellen Levine (JB CARSON)
- *The Tree of Life: A Book Depicting the Life of Charles Darwin, Naturalist, Geologist, and Thinker* by Peter Sis (JB DARWIN)
- *Find Where the Wind Goes: Moments from my Life* by Mae Jemison (JB JEMISON)
- *They Changed the World: Crick and Watson* by Lewis Helfand (J GN HELFAND)
- *Marie Curie for Kids: Her Life and Scientific Discoveries, with 21 Activities and Experiments* by Amy M. O'Quinn (JB CURIE)
- *Lives of the Scientists: Experiments, Explosions (and What the Neighbors Thought)* by Kathleen Krull (J509.22 KRU)
- *Untamed: the Wild Life of Jane Goodall* by Anita Silvey (JB GOODALL)
- *Rocket Boys: a Memoir* by Homer Hickam (YA PAPERBACK HICKAM)
- *Sally Ride: Life on a Mission* by Sue Macy (JB RIDE)
- *Florence Nightingale: the Courageous Life of the Legendary Nurse* by Catherine Reef (JB NIGHTINGALE)
- *Path to the Stars: My Journey from Girl Scout to Rocket Scientist* by Sylvia Acevedo (JB Acevedo)
- *The man who knew everything : the strange life of Athanasius Kircher* by Marilee Peters (JB KIRCHER)

Human Body

- *The Way We Work: Getting to Know the Amazing Human Body* by David Macaulay (J612 MAC)
- *Their Skeletons Speak: Kennewick Man and the Plaeoamerican World* by Sally M. Walker (J970.01 WAL)
- *The Evolution of Medical Technology* by Hillary Dodge (J610.9 DOD)
- *The Human Body: 25 Fantastic Projects Illuminate how the Body Works* by Kathleen Reilly (J612 REI)
- *Totally Wacky Facts about the Human Body* by Cari Meister (J612 MEI)
- *Frank Einstein and the BrainTurbo* by Jon Scieszka (J SCI FI SCIESZKA)
- *They Lost Their Heads! What Happened to Washington's Teeth, Einstein's Brain, and other Famous Body Parts* by Carlyn Beccia (J920.02 BEC)

Technology

- Adventures in Raspberry Pi* by Carrie Ann Philbin (J005.13 PHI)
- Robots: from Everyday to Out of this World* (J629.8 ROB)
- Bot Wars* by J.V. Kade (J SCI FI KADE)
- Girls Who Code: Learn to Code and Change the World* by Reshman Saujani (J005.1023 SAU)
- You Wouldn't Want to Live Without Coding!* by Alex Woolf (J005.13 WOO)
- You Wouldn't Want to Live without Gaming!* by Jim Pipe (J794 PIP)
- Break into the Internet!* by Carla Jablonski (J DISNEY)
- The Evolution of Military Technology* by Gina Hagler (J623.09 HAG)

Engineering

- *Built to Last* by David Macaulay (J729 MAC)
- *Bomb: The Race to Build - and Steal - the World's Most Dangerous Weapon* by Steve Sheinkin (J623.4 SHE)
- *How to Build a Museum: the Smithsonian's National Museum of African American History and Culture* by Tonya Bolden (J973.0496 BOL)
- *Break the Siege: Make your Own Catapults* by Rob Ives (J623.4 IVE)
- *Cutting Edge Transportation Technology* by Barbara Sheen (J629.04 SHE)
- *The Daybreak Bond* by Megan Frazer Blakemore (J SCI FI BLAKEMORE)
- *Dream Jobs in Engineering* by Colin Hynson (J20.0023 HYN)
- *Junk Drawer Engineering* by Bobby Mercer (J620.0078 MER)

Nature

- *Tracking Trash: Flotsam, Jetsam, and the Science of Ocean Motion* by Loree Griffin Burns (J551.462 BUR)
- *Zombie Makers: True Stories of Nature's Undead* by Rebecca L. Johnson (J578.6 JOH)
- *Ocean Renegades!* by Abby Howard (J GN HOWARD)
- *Animals Go to War* by Connie Goldsmith (J335.4 GOL)
- *National Geographic Animal Encyclopedia: 2,500 Animals with photos, maps, and more!* by Lucy H. Spelman (J590.3 SPE)
- *Botanicum* by J.K. Willis (J580 WIL)
- *Mystifying Mutants* by Jenn Dlugos (J576.49 DLU)
- *Nocturne: Creatures of the Night* by Traer Scott (J591.5 SCO)
- *The Wimp-o-Meter's Guide to Jungle Survival* by Tracey Turner (J PAPERBACK T)

Outer Space

- *A Black Hole Is Not a Hole* by Carolyn Cinami DeCristofano (J523.8 DEC)
- *Almost Astronauts: 13 Women Who Dared to Dream* by Tanya Lee Stone (J629.45 STO)
- *To the Moon! The True Story of the American Heroes on the Apollo 8 Spaceship* by Jeffrey Kluger (J629.45 KLU)
- *See You in the Cosmos* by Jack Cheng (J CHENG)
- *Apollo 8: The Mission that Changed Everything* by Martin W. Sandler (J629.454 SAN)

Math

- *Fantasy Football Math: Using Stats to Score Big in your League* by Matt Doeden (J793.93001 DOE)
- *The Miscalculations of Lightning Girl* by Stacy McAnulty (J MCANULTY)
- *Power in Numbers: the Rebel Women of Mathematics* by Talithia Williams (J510.922 WIL)
- *Careers if you Like Math* by Barbara Sheen (J510.23 SHE)
- *All the Answers* by Kate Messner (J MESSNER)
- *Algebra I and Algebra II Smarts!* by Rebecca Wingard-Nelson (J512 WIN)
- *The Book of Perfectly Perilous Math: 24 Death-Defying Challenges for Young Mathematicians* by Sean Connolly (J510.76 CON)
- *Breakfast by the Numbers* by Cecilia Minden (J642 MIN)
- *Kiss my Math: Showing Pre-Algebra Who's Boss* by Danica McKellar (J512 McK)
- *Lines, Bars, and Circles: How William Playfair Invented Graphs* by Helaine Becker (J001.4 BEC)
- *Saving for the Future* by Cecilia Minden (J332.024 MIN)