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Rachel Swaby is a producer of the podcast Runner's World, and the author of Headstrong: 52 Women Who Changed Science--and the World as well as its young readers adaptation, Trailblazers: 33 Women in Science Who Changed the World. She lives in Los Angeles.

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Rachel Swaby is the author of Headstrong: 52 Women Who

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Changed Science—and the World. A freelance journalist, Swaby has written for Runner ' s World, Wired, The Atlantic, and other publications. She lives in Brooklyn. Visit her at [rachelswaby.com](http://rachelswaby.com) and follow @rachelswaby on Twitter. Inspired by Your Browsing History.

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This fascinating tour reveals these 52 women at their



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Seeking to change that awareness, journalist Rachel Swaby recently published a new book, Headstrong: 52 Women Who Changed Science — and the World. Rachel Swaby will tell the story of her work on this book, and will highlight some of the stories it contains. Headstrong features a variety

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of women who have won Nobel Prizes or otherwise have been major innovators over the last several centuries, some well-known, others not, but all of whose work has significantly influenced our lives.

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Books available now at great prices.

Collects 52 profiles of history's brightest female scientists and mathematicians. Original.

Fifty-two inspiring and insightful profiles of history ' s brightest female scientists. “ Rachel Swaby ' s no-nonsense and needed Headstrong dynamically profiles historically overlooked female visionaries in science, technology, engineering, and math. ” —Elle In 2013, the New York Times published an obituary for Yvonne Brill. It began: “ She made a mean beef stroganoff, followed her husband from job to

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job, and took eight years off from work to raise three children. ” It wasn ’ t until the second paragraph that readers discovered why the Times had devoted several hundred words to her life: Brill was a brilliant rocket scientist who invented a propulsion system to keep communications satellites in orbit, and had recently been awarded the National Medal of Technology and Innovation. Among the questions the obituary—and consequent outcry—prompted were, Who are the role models for today ’ s female scientists, and where can we find the stories that cast them in their true light? Headstrong delivers a powerful, global, and engaging response. Covering Nobel Prize winners and major innovators, as well as lesser-known but hugely significant scientists who influence our every day, Rachel



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Swaby ' s vibrant profiles span centuries of courageous thinkers and illustrate how each one ' s ideas developed, from their first moment of scientific engagement through the research and discovery for which they ' re best known. This fascinating tour reveals 52 women at their best—while encouraging and inspiring a new generation of girls to put on their lab coats.

Florence Nightingale. Sally Ride. Ada Lovelace. These names and others are etched in history and included here as part of an awe-inspiring collection of profiles of thirty-three of the most influential women in science—women whose vision, creativity, passion, and dedication have changed the world. Aspiring scientists, young history enthusiasts, and children

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who enjoy learning about the world will be fascinated by these riveting snapshots—and parents who enjoyed the film *Hidden Figures* will find this to be the perfect extension. Covering important advancements made by women in fields such as biology, medicine, astronomy, and technology, author Rachel Swaby explains that people aren't born brilliant scientists. They observe and experiment as kids and as adults, testing ideas again and again, each time learning something new. Kids are sure to come away with a renewed curiosity about the world and the realization that the road to discovery can be positively thrilling. “ This collective biography is most timely. An interesting, engaging collection . . . that will encourage readers to explore further and perhaps pursue their own

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scientific curiosities. ” —Kirkus Reviews “ The descriptions of the women ’ s lives often have a quiet poetry. Readers . . . will find much to admire in these accomplished and unconventional women. ” —Publishers Weekly “ Swaby ’ s powerful book serves as an indispensable reminder that women have always been essential to science and innovation. Certain to inspire the next generation of scientists. ” —Nathalia Holt, New York Times bestselling author of Rise of the Rocket Girls: The Women Who Propelled Us, From Missiles to the Moon to Mars

Rachel Swaby and Kit Fox present *Mighty Moe*, the untold true story of runner Maureen Wilton, whose world record-breaking marathon time at age 13 was met first with

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misogyny and controversy, but ultimately with triumph. Fifty-two years ago, a girl known as Mighty Moe broke the women ' s world marathon record at a small race in Toronto. This was an era when girls and women were discouraged from the sport and the longest track event at the Olympics for women was 25.6 miles shorter than a marathon. Thirteen-year-old Moe ' s world-beating victory was greeted with chauvinistic disapproval and accusations of cheating—as were many of her achievements in the sport she had excelled at from the age of ten. Within less than two years, the controversy took its toll and Maureen quit running. Here is the untold story of Mighty Moe ' s tenacity and triumph in the face of adversity as a young athlete—and of a grown-up Maureen finding her way back

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to the sport decades later. This inspiring biography for readers and racers of all ages showcases the truly groundbreaking achievements of an unassuming, amazing young athlete. *Mighty Moe* includes an introduction by Kathrine Switzer, the first woman to officially register and run in the Boston Marathon (and Maureen 's only fellow female competitor at the 1967 record-setting race), and an afterword by Des Linden, the first-place finisher of the 11,628 women who raced the 2018 Boston Marathon.

From the ancient world to the present women have been critical to the progress of science, yet their importance is

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overlooked, their stories lost, distorted, or actively suppressed. Forces of Nature sets the record straight and charts the fascinating history of women ' s discoveries in science. In the ancient and medieval world, women served as royal physicians and nurses, taught mathematics, studied the stars, and practiced midwifery. As natural philosophers, physicists, anatomists, and botanists, they were central to the great intellectual flourishing of the Scientific Revolution and the Enlightenment. More recently women have been crucially involved in the Manhattan Project, pioneering space missions and much more. Despite their record of illustrious achievements, even today very few women win Nobel Prizes in science. In this thoroughly researched, authoritative work, you will discover how women have

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navigated a male-dominated scientific culture – showing themselves to be pioneers and trailblazers, often without any recognition at all. Included in the book are the stories of: Hypatia of Alexandria, one of the earliest recorded female mathematicians Maria Cunitz who corrected errors in Kepler ' s work Emmy Noether who discovered fundamental laws of physics Vera Rubin one of the most influential astronomers of the twentieth century Jocelyn Bell Burnell who helped discover pulsars

A collection of artworks inspired by the lives and achievements of fifty famous women in science, technology, engineering, and mathematics, from the ancient world to the present, profiles each notable individual.

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Spanning the nineteenth and twentieth centuries, this fascinating history explores the lives and achievements of great women in science across the globe. *Ten Women Who Changed Science and the World* tells the stories of trailblazing women who made a historic impact on physics, biology, chemistry, astronomy, and medicine. Included in this volume are famous figures, such as two-time Nobel Prize winner Marie Curie, as well as individuals whose names will be new to many, though their breakthroughs were no less remarkable. These women overcame significant obstacles, discrimination, and personal tragedies in their pursuit of scientific advancement. They persevered in their research, whether creating life-saving drugs or expanding



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our knowledge of the cosmos. By daring to ask ‘ How? ’ and ‘ Why? ’ , each of these women made a positive impact on the world we live in today. In this book, you will learn about: Astronomy Henrietta Leavitt (United States, 1868–1921) discovered the period-luminosity relationship for Cepheid variable stars, which enabled us to measure the size of our galaxy and the universe. Physics Lise Meitner (Austria, 1878–1968) fled Nazi Germany in 1938, taking with her the experimental results which showed that she and Otto Hahn had split the nucleus and discovered nuclear fission. Chien-Shiung Wu (United States, 1912–1997) demonstrated that the widely accepted ‘ law of parity ’ , which stated that left-spinning and right-spinning subatomic particles would behave identically, was wrong.

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Chemistry Marie Curie (France, 1867–1934) became the only person in history to have won Nobel prizes in two different fields of science. Dorothy Crowfoot Hodgkin (United Kingdom, 1910–1994) won the Nobel Prize for Chemistry in 1964 and pioneered the X-ray study of large molecules of biochemical importance. Medicine Virginia Apgar (United States, 1909–1974) invented the Apgar score, used to quickly assess the health of newborn babies. Gertrude Elion (United States, 1918–1999) won the Nobel Prize for Physiology or Medicine in 1988 for her advances in drug development. Biology Rita Levi-Montalcini (Italy, 1909–2012) won the Nobel Prize for Physiology or Medicine in 1986 for her co-discovery in 1954 of Nerve Growth Factor (NGF). Elsie Widdowson (United Kingdom,

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1906–2000) pioneered the science of nutrition and helped devise the World War II food-rationing program. Rachel Carson (United States, 1907–1964) forged the environmental movement, most famously with her influential book *Silent Spring*.

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to accept the hand they've been dealt and, as a result, have formed, shaped and changed the course of our futures. The Leaders weaves together 48\* unforgettable portraits of the true pioneers and leaders who made huge yet unacknowledged contributions to history, including: Grace O'Malley, the 16th century Irish pirate queen Sylvia Rivera, who spearheaded the modern transgender rights movement Agent 355, the unknown rebel spy who played a pivotal role in the American Revolution Noor Inayat Khan, who went undercover to spy for the French Resistance and became Nazi enemy no. 1 Amina of Zazzau, the formidable ancient Muslim warrior queen of Northern Nigeria Chapters including Rebels; Warriors; Rulers; Activists and Reformers shine a spotlight on the rebellious women who defied the

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odds, and the opposition, to change the world around them.

\*The number of Nobel-prize-winning women.

The Space Age began just as the struggle for civil rights forced Americans to confront the long and bitter legacy of slavery, discrimination, and violence against African Americans. Presidents John F. Kennedy and Lyndon Johnson utilized the space program as an agent for social change, using federal equal employment opportunity laws to open workplaces at NASA and NASA contractors to African Americans while creating thousands of research and technology jobs in the Deep South to ameliorate poverty. We Could Not Fail tells the inspiring, largely unknown story of how shooting for the stars helped to overcome

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segregation on earth. Richard Paul and Steven Moss profile ten pioneer African American space workers whose stories illustrate the role NASA and the space program played in promoting civil rights. They recount how these technicians, mathematicians, engineers, and an astronaut candidate surmounted barriers to move, in some cases literally, from the cotton fields to the launching pad. The authors vividly describe what it was like to be the sole African American in a NASA work group and how these brave and determined men also helped to transform Southern society by integrating colleges, patenting new inventions, holding elective office, and reviving and governing defunct towns. Adding new names to the roster of civil rights heroes and a new chapter to the story of space exploration, We Could Not

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Fail demonstrates how African Americans broke the color barrier by competing successfully at the highest level of American intellectual and technological achievement.

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