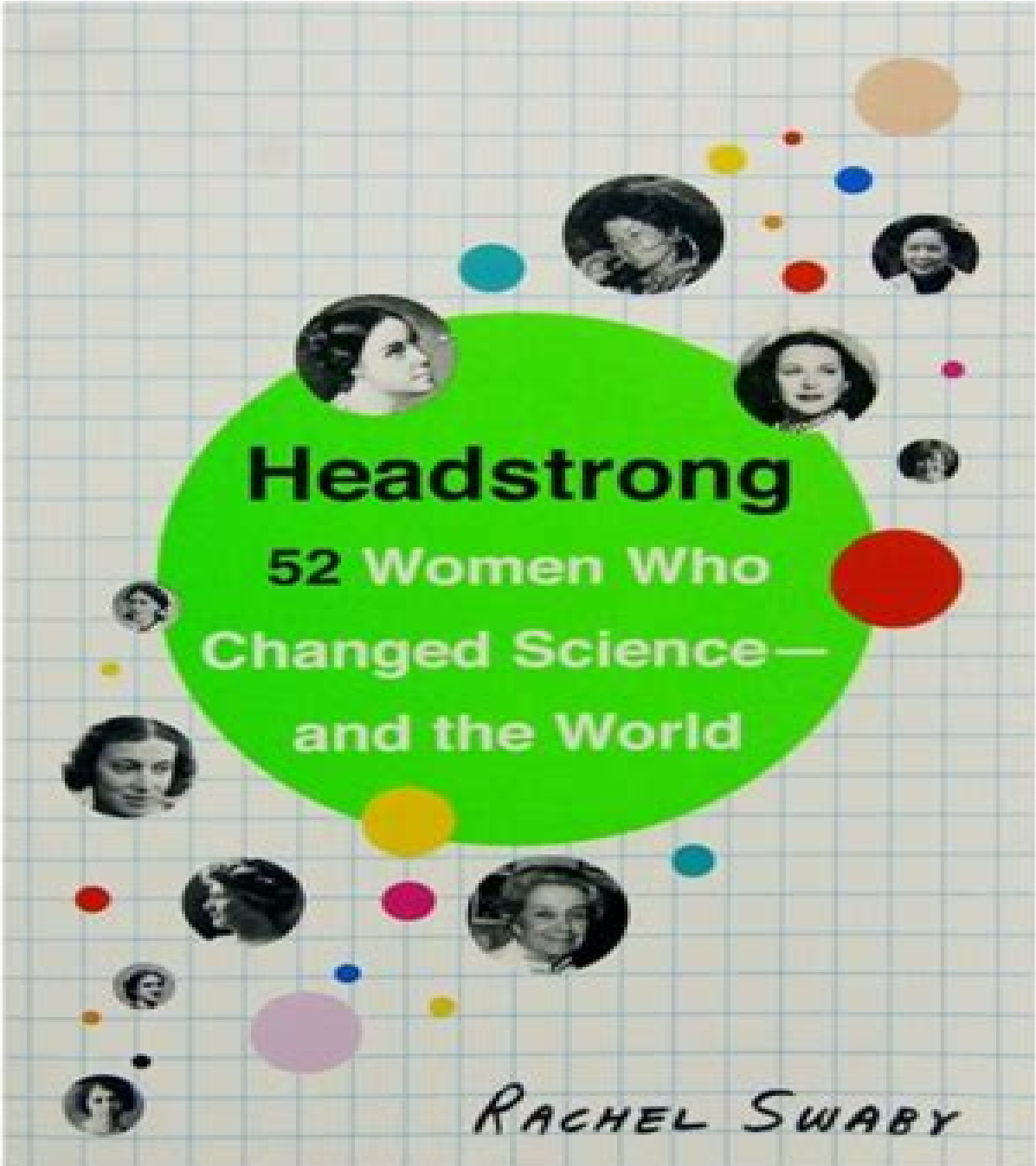




Headstrong

52 Women Who
Changed Science—
and the World

RACHEL SWABY

Headstrong 52 Women Who Changed Science And The World

Padhraic Smyth



Headstrong 52 Women Who Changed Science And The World:

Headstrong Rachel Swaby, 2015-04-07 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 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 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 **Headstrong: 52 Women Who Changed Science--And the World**, *Trailblazers: 33 Women in Science Who Changed the World* Rachel Swaby, 2017-09-12 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 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 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* *Trailblazers: 33 Women in Science Who Changed the World* Rachel Swaby, 2016-09-13 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 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 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 **Stolen Science** Ella Schwartz, 2021-08-31 A fresh approach to a timely topic Stolen Science is a fascinating compendium of stories of uncredited scientists and inventors throughout the ages Over the centuries women people from underrepresented communities and immigrants overcame prejudices and social obstacles to make remarkable discoveries in science but they weren't the ones to receive credit in history books People with more power money and prestige were remembered as the inventor of the telephone the scientists who decoded the structure of DNA and the doctor who discovered the cause of yellow fever This book aims to set the record straight and celebrate the nearly forgotten inventors and scientists who shaped our world today Forgotten Women: The Scientists Zing Tsjeng, Zhi Ying Tsjeng, 2018-03-08 To say this series is empowering doesn't do it justice Buy a copy for your daughters sisters mums aunts and nieces just make sure you buy a copy for your sons brothers dads uncles and nephews too indy100 Here's to no more forgotten women Evening Standard The women who shaped and were erased from our history The Forgotten Women series will uncover the lost histories of the influential women who have refused over hundreds of years to accept the hand they've been dealt and as a result have formed shaped and changed the course of our futures The Scientists celebrates 48 unsung scientific heroines whose hugely important yet broadly unacknowledged or incorrectly attributed discoveries have transformed our understanding of the scientific world Mary Anning the amateur paleontologist whose fossil findings changed scientific thinking about prehistoric life Emmy Noether dubbed The Mighty Mathematician You've Never Heard Of Yn's Mex a the Mexican American botanist who discovered over 500 new plant species Wangari Maathai who started an environmental and ecological revolution in Kenya Margaret Sanger the maverick nurse who paved the way for the legalization of contraception Chapters including Earth Biology Medicine Physics Mathematics and Technology Inventions

profile the female scientists who have defied the odds and the opposition to change the world around us The number of Nobel prize winning women

Nuclear Physicist Chien-Shiung Wu Valerie Bodden,2016-08-01 Do you enjoy performing experiments or studying how the universe works Growing up in China Chien Shiung Wu enjoyed learning about science As an adult she earned her PhD in physics and made a discovery that changed the field forever Wu came to the United States to study physics Soon she was a sought after physics professor As an expert in the field she left teaching to work on secret government programs She even helped disprove a major law of physics But how did she get there Find out how Wu s persistence drove her contributions in the field of physics

Gender Issues and the Library Carol Smallwood,Lura Sanborn,2017-11-20 With the legalization of same sex marriage and the explosion of LGBTQ news coverage in recent years gender studies is a subject of intense interest in popular media and a part of the curriculum at many colleges Libraries realize the importance of supporting the field yet many have difficulty finding resources and programming ideas This book provides case studies and a range of innovative solutions for better meeting patron needs Twenty seven chapters are arranged into sections covering Research and Library Instruction History and Herstory Programming Collections and Beyond and Resources

The Most Influential Women in STEM Barbara Allman,2018-07-15 The stories of the many women who excel in STEM fields despite real obstacles need to be told This book assembles profiles of Nobel Laureates as well as those who were overlooked It introduces the reader to women who received encouragement from their families and of those who had to fight for an education It tells of the successes of women held in high regard by male colleagues and of those scorned Their stories will embolden the next generation of female leaders in STEM and enlighten the males who will be there working alongside them

Bold Women of Medicine Susan M. Latta,2017-09-01 CBC NCSS Notable Social Studies Trade Book for Students K 12 2017 Meet 21 determined women who have dedicated their lives to healing others In the 19th century Florence Nightingale and Clara Barton the Lady with the Lamp and the Angel of the Battlefield earned their nicknames by daring to enter battlefields to aid wounded soldiers forever changing the standards of medicine Modern day medical heroines such as Bonnie Simpson Mason who harnessed the challenges of her chronic illness and founded an organization to introduce women and minorities to orthopedic surgery and Kathy Magliato who jumped the hurdles to become a talented surgeon in the male dominated arena of heart transplants will inspire any young reader interested in the art science and lifechanging applications of medicine Lovers of adventure will follow Mary Carson Breckinridge the nurse on horseback who delivered babies in the Appalachian Mountains and believed that everyone including our poorest and most vulnerable citizens deserve good health care and Jerri Nielsen the doctor stationed in Antarctica who cut off from help had to bravely treat her own breast cancer These and 15 other daring women inspire with their courage persistence and belief in the power of both science and compassion Packed with photos and informative sidebars and including source notes and a bibliography *Bold Women of Medicine* is an invaluable addition to any student s or aspiring doctor or nurse s bookshelf

Disciplinary

Literacy in Action ReLeah Cossett Lent, Marsha McCracken Voigt, 2018-08-16 You wouldn't tell a heart surgeon to also do pediatrics so why would we tell content area educators they must do literacy Math history English and science teachers are passionate about their specialties and that's why authors Releah Lent and Marsha Voight designed a framework that keeps teachers subjects at the center of daily classroom life while also helping them pool strengths with colleagues Based on years of successful implementation this powerful PL cycle drops in seamlessly to any school setting so teachers schoolwide take on innovative practices of reading writing thinking and doing within their areas of expertise

Women Warriors Pamela D. Toler, 2019-02-26 Who says women don't go to war From Vikings and African queens to cross dressing military doctors and WWII Russian fighter pilots these are the stories of women for whom battle was not a metaphor The woman warrior is always cast as an anomaly Joan of Arc not GI Jane But women it turns out have always gone to war In this fascinating and lively world history Pamela Toler not only introduces us to women who took up arms she also shows why they did it and what happened when they stepped out of their traditional female roles to take on other identities These are the stories of women who fought because they wanted to because they had to or because they could Among the warriors you'll meet are Tomyris ruler of the Massagetae who killed Cyrus the Great of Persia when he sought to invade her lands The West African ruler Amina of Hausa who led her warriors in a campaign of territorial expansion for more than 30 years Boudica who led the Celtic tribes of Britain into a massive rebellion against the Roman Empire to avenge the rapes of her daughters The Trung sisters Trung Trac and Trung Nhi who led an untrained army of 80 000 troops to drive the Chinese empire out of Vietnam The Jōshūgun a group of 30 combat trained Japanese women who fought against the forces of the Meiji emperor in the late 19th century Lakshmi Bai Rani of Jhansi who was regarded as the bravest and best military leader in the 1857 Indian Mutiny against British rule Maria Bochkareva who commanded Russia's first all female battalion the First Women's Battalion of Death during WWII Buffalo Calf Road Woman the Cheyenne warrior who knocked General Custer off his horse at the Battle of Little Bighorn Juana Azurduy de Padilla a mestiza warrior who fought in at least 16 major battles against colonizers of Latin America and who is a national hero in Bolivia and Argentina today And many more spanning from ancient times through the 20th century By considering the ways in which their presence has been erased from history Toler reveals that women have always fought not in spite of being women but because they are women

Magic in a Drop of Water Julie Winterbottom, 2025-03-25 An entertaining and gorgeous picture book biography of scientist and environmental hero Ruth Patrick one of the first to warn about the dangers of pollution A brilliant scientist and intrepid explorer the ecologist Ruth Patrick taught the world how to care for the environment She studied water pollution long before it became a public concern and gave other scientists the tools to do something about it Born in 1907 Ruth Patrick was one of the only women in her field when she made her breakthrough discovery about biodiversity and the ecosystem of rivers forever changing how ecologists understand pollution Lyrically joyfully written exquisitely illustrated and full of fascinating details and a rich afterword and

timeline this STEM biography will inspire readers who love the environment to follow their passion and curiosity **Doable**
Differentiation Jane A. G. Kise, 2021-05-14 Differentiating for students learning preferences can often seem too complex and complicated for too little gain Learn a better way forward with the guidance of Doable Differentiation Author Jane A G Kise provides a series of straightforward high reward strategies that K 12 educators like you successfully use in their daily practice to support engage and challenge students with diverse learning styles Understand the benefits of differentiation and how to implement differentiated instruction simply and effectively Learn students preferred cognitive processing styles to better tailor differentiated lesson plans for all learners needs Discover 12 categories of research based differentiation strategies to implement immediately Provide students with a variety of accessible options for processing information engaging in higher level thinking and demonstrating learning Engage learners and develop their proficiency and self efficacy Contents Introduction What Makes Differentiation Doable Part 1 The Foundation Chapter 1 Cognitive Processes and Effective Differentiation Chapter 2 Clear Learning Goals and Expectations Part 2 The Strategies Chapter 3 Choice Chapter 4 Wait Time Chapter 5 Unambiguous Instruction Chapter 6 Pressure Prompted Accommodations Chapter 7 Student Centered Discussions Chapter 8 Curiosity Creators Chapter 9 Open Questions Chapter 10 Concept Maps Chapter 11 Big Notes Chapter 12 Moveable Organizers Chapter 13 Planned Movement Chapter 14 Talking to Write Part 3 Lesson Planning Chapter 15 Two Step Differentiation Epilogue References and Resources Index *Here We Are* Kelly Jensen, 2017-01-24 LET S GET THE FEMINIST PARTY STARTED Have you ever wanted to be a superheroine Join a fandom Create the perfect empowering playlist Understand exactly what it means to be a feminist in the twenty first century You ve come to the right place Forty four writers dancers actors and artists contribute essays lists poems comics and illustrations about everything from body positivity to romance to gender identity to intersectionality to the greatest girl friendships in fiction Together they share diverse perspectives on and insights into what feminism means and what it looks like Come on in turn the pages and be inspired to find your own path to feminism by the awesome individuals in *Here We Are* Welcome to one of the most life changing parties around **Kid Scientists** David Stabler, 2018-10-09 A New York Journal of Books Notable Children s Book Funny childhood biographies and cartoon style illustrations take us inside the lives of 15 scientific legends when they were kids from Albert Einstein and Jane Goodall to Marie Curie and Neil DeGrasse Tyson Every great scientist started out as a kid Before their experiments inventions and discoveries that changed the world the world s most celebrated scientists had regular kid problems just like you Stephen Hawking hated school and preferred to spend his free time building model airplanes inventing board games and even building his own computer Jane Goodall got in trouble for bringing worms and snails into her house And Neil deGrasse Tyson had to start a dog walking business to save up money to buy a telescope Kid Scientists tells the stories of a diverse and inclusive group including Temple Grandin Nikola Tesla Ada Lovelace Benjamin Franklin Isaac Newton Rosalind Franklin Sally Ride Rachel Carson George Washington Carver Vera Rubin With whimsical

illustrations bringing every caper scrape and sticky situation to life this book is a fun approachable introduction to the giants of the scientific world and a perfect addition to libraries classrooms and kids at home collections interesting funny and most importantly relevant to kids today Geek Dad

One Hundred Patents That Shaped the Modern World David Segal, 2019-02-14 What would our world today be like without inventions like tarmac aspirin liquid crystals and barbed wire This guide shows how patents and the inventions they describe have shaped the 21st century It gives us insights into the inventions big and small that have had huge impacts many unexpected on multiple spheres of our lives from popular culture and entertainment to global health to transportation to the waging of war It features patent documents that date from the mid 19th century to the present Patent documents describe inventions and represent an accurate and rich source of information about the history and current state of modern technology as patents are examined and their accuracy can be challenged The subject matter covers many technical areas Patents discussed include for example Morse code the diode triode transistors television frozen foods ring pull for soft drink cans board games such as Monopoly gene editing metamaterials MRI computerised tomography insulin and monoclonal antibodies such as Herceptin The text is illustrated with drawings adapted from the original patent documents Patent numbers are included to allow interested readers to trace the documents Inventions described in the patents are placed in historical perspective For example the book discusses the role of the cavity magnetron and radar in World War II and the influence of the diode on the development of broadcasting at the beginning of the 20th century

The New ABCs of Research Ben Shneiderman, 2016 This book is a guide for junior researchers and a manifesto for senior researchers and policy makers about how to update policies to respond to the immense challenges of our times The guiding principles are to combine applied and basic research in ways that use the methods of science engineering and design

Women in Technology Elizabeth Schermund, 2016-12-15 Statistics tell us that women are underrepresented in STEM careers yet many of technology's greatest innovations have come from women Ada Lovelace is considered one of the first computer programmers It was six women who programmed the important ENIAC computer during World War II While women's contributions to technology are often overlooked this resource celebrates the lives and accomplishments of women inventors and innovators throughout history Also included are chapter notes a glossary a further reading section containing books and websites and an index

Grasping Mysteries Jeannine Atkins, 2020-08-04 Learn about seven groundbreaking women in math and science in this gorgeously written biographical novel in verse a companion to the original and memorable Booklist starred review Finding Wonders Three Girls Who Changed Science After a childhood spent looking up at the stars Caroline Herschel was the first woman to discover a comet and to earn a salary for scientific research Florence Nightingale was a trailblazing nurse whose work reformed hospitals and one of the founders of the field of medical statistics The first female electrical engineer Hertha Marks Ayrton registered twenty six patents for her inventions Marie Tharp helped create the first map of the entire ocean floor which helped scientists understand our

subaquatic world and suggested how the continents shifted A mathematical prodigy Katherine Johnson calculated trajectories and launch windows for many NASA projects including the Apollo 11 mission Edna Lee Paisano a citizen of the Nez Perce Nation was the first Native American to work full time for the Census Bureau overseeing a large increase in American Indian and Alaskan Native representation And Vera Rubin studied more than two hundred galaxies and found the first strong evidence for dark matter Told in vibrant evocative poems this stunning novel celebrates seven remarkable women who used math as their key to explore the mysteries of the universe and grew up to do innovative work that changed the world

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