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In 1964 at the World's Fair in New York City one room was dedicated solely to mathematics. The display included a very attractive and informative mural, about 13 feet long, sponsored by one of the largest computer manufacturing companies and presenting a brief survey of the history of mathematics. Entitled, "Modern Mathematics," it gives an outline of the development of science from approximately 1000 B. C. to the year of the exhibition. The first centuries of this time span are illustrated by pictures of the history of art and, in particular, architecture; the period since 1500 is illuminated by portraits of mathematicians, including brilliant

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descriptions of their lives and professional achievements. Close to eighty portraits are crowded into a space of about fourteen square feet; among them, only one is of a woman. Her face—mature, intelligent, neither pretty nor handsome—may suggest her love of mathematics. Her eyes, full and clear, reveal a keen intelligence and a creative gift, but certainly reveal a likeable personality and a genuine kindness of heart. It is the portrait of Emmy Noether (1882 - 1935), surrounded by the likenesses of such famous men as Joseph Liouville (1809-1882), Georg Cantor (1845-1918), and David Hilbert (1862 -1943). It is accompanied by the following text: Emmy Noether, daughter of mathematician Max, was often called "Der Noether," as if she were a man.

Math Makers
The Lives and Works of 50 Famous Mathematicians
Prometheus Books

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"This rich volume is a national treasure." —Kirkus Reviews (starred review) "Captivating, informative, and inspiring...Easy to follow and hard to put down." —School Library Journal (starred review) The inspiring autobiography of NASA mathematician Katherine Johnson, who helped launch Apollo 11. As a young girl, Katherine Johnson showed an exceptional aptitude for math. In school she quickly skipped ahead several grades and was soon studying complex equations with the support of a professor who saw great promise in her. But ability and opportunity did not always go hand in hand. As an African American and a girl growing up in an era of brutal racism and sexism, Katherine faced daily challenges. Still, she lived her life with her father's words in mind: "You are no better than anyone else, and nobody else is better than you." In the early 1950s, Katherine was thrilled to join the organization that

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would become NASA. She worked on many of NASA's biggest projects including the Apollo 11 mission that landed the first man on the moon. Katherine Johnson's story was made famous in the bestselling book and Oscar-nominated film Hidden Figures. Now Reaching for the Moon she tells her own story for the first time in a lively autobiography that will inspire young readers everywhere.

Lists all the resources needed to create a balanced curriculum for homeschooling--from preschool to high school level

Patterns, Problems, Conjectures, and Proofs

Adventures of a Mathematician

A Life of the Genius Ramanujan

Math Equals

Math Makers

NIELS HENRIK ABEL and his Times

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Emmy Noether 1882–1935

"Two veteran math educators concisely profile leading mathematicians throughout history highlighting their often unusual personalities and lives while giving average readers insights into the importance of their mathematical discoveries."--

Written by a distinguished specialist in functional analysis, this book presents a comprehensive treatment of the history of Banach spaces and (abstract bounded) linear operators. Banach space theory is presented as a part of a broad mathematics context, using tools from such areas as set theory, topology, algebra, combinatorics, probability theory, logic, etc. Equal emphasis is given to both spaces and operators. The book may serve as a reference for

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researchers and as an introduction for graduate students who want to learn Banach space theory with some historical flavor. Provides biographical essays on women mathematicians from around the world from antiquity to the present

A celebrated mathematician traces the history of math through the lives and work of twenty-five pioneering mathematicians In Significant Figures, acclaimed mathematician Ian Stewart introduces the visionaries of mathematics throughout history. Delving into the lives of twenty-five great mathematicians, Stewart examines the roles they played in creating, inventing, and discovering the mathematics we use today. Through these short biographies, we get acquainted with the history of mathematics from Archimedes to Benoit Mandelbrot, and learn about those too

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often left out of the cannon, such as Muhammad ibn Musa al-Khwarizmi (c. 780-850), the creator of algebra, and Augusta Ada King (1815-1852), Countess of Lovelace, the world's first computer programmer. Tracing the evolution of mathematics over the course of two millennia, Significant Figures will educate and delight aspiring mathematicians and experts alike.

Historical Modules for the Mathematics Classroom

The Lives and Work of Great Mathematicians

Treatise on Conic Sections

The Man who Loved Only Numbers

The Essential Resource Guide for Homeschoolers, Parents, and Educators Covering Every Subject from Arithmetic to Zoology

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Perfect Rigour

The Mother of Modern Algebra

Physics.

First published in 1202, Fibonacci's Liber Abaci was one of the most important books on mathematics in the Middle Ages, introducing Arabic numerals and methods throughout Europe. This is the first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods.

In 2006, an eccentric Russian mathematician

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named Grigori Perelman solved one of the world's greatest intellectual puzzles. The Poincare conjecture is an extremely complex topological problem that had eluded the best minds for over a century. In 2000, the Clay Institute in Boston named it one of seven great unsolved mathematical problems, and promised a million dollars to anyone who could find a solution. Perelman was awarded the prize this year - and declined the money. Journalist Masha Gessen was determined to find out why. Drawing on interviews with Perelman's teachers, classmates, coaches,

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teammates, and colleagues in Russia and the US - and informed by her own background as a math whiz raised in Russia - she set out to uncover the nature of Perelman's astonishing abilities. In telling his story, Masha Gessen has constructed a gripping and tragic tale that sheds rare light on the unique burden of genius.

Most people think of mathematicians as solitary, working away in isolation. And, it's true, many of them do. But Paul Erdos never followed the usual path. At the age of four, he could ask you when you were born and then calculate the number of

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seconds you had been alive in his head. But he didn't learn to butter his own bread until he turned twenty. Instead, he traveled around the world, from one mathematician to the next, collaborating on an astonishing number of publications. With a simple, lyrical text and richly layered illustrations, this is a beautiful introduction to the world of math and a fascinating look at the unique character traits that made "Uncle Paul" a great man. The Boy Who Loved Math by Deborah Heiligman is a Kirkus Reviews Best Book of 2013 and a New York Times Book Review Notable Children's Book of 2013.

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The Lives and Works of 50 Famous Mathematicians

The Most Important Mathematician You've Never Heard Of

Famous Mathematicians

How I Learned to Count

Power in Numbers

Biographies of Women Mathematicians+related Activities

The History of Symmetry

Examines mathematical ideas and the visionary minds behind them. This book provides an account of celebrated mathematicians and

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their quirks, oddities, personal tragedies, bad behavior, descents into madness, tragic ends, and the beauty of their mathematical discoveries.

*This volume is the outcome of a seminar on the history of mathematics held at the Chennai Mathematical Institute during January-February 2008 and contains articles based on the talks of distinguished scholars both from the West and from India. The topics covered include: (1) geometry in the *śulvasūtras*; (2) the origins of zero (which can be traced to ideas of *lopa* in Pāṇini's grammar); (3) combinatorial methods in Indian music (which*

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were developed in the context of prosody and subsequently applied to the study of tonal and rhythmic patterns in music); (4) a cross-cultural view of the development of negative numbers (from Brahmagupta (c. 628 CE) to John Wallis (1685 CE); (5) Kunnaka, Bhavana and Cakravala (the techniques developed by Indian mathematicians for the solution of indeterminate equations); (6) the development of calculus in India (covering the millennium-long history of discoveries culminating in the work of the Kerala school giving a complete analysis of the basic calculus of polynomial and trigonometrical functions);

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(7) recursive methods in Indian mathematics (going back to Paoini's grammar and culminating in the recursive proofs found in the Malayalam text *Yuktibhaua* (1530 CE)); and (8) planetary and lunar models developed by the Kerala School of Astronomy. The articles in this volume cover a substantial portion of the history of Indian mathematics and astronomy. This book will serve the dual purpose of bringing to the international community a better perspective of the mathematical heritage of India and conveying the message that much work remains to be done, namely the study of many unexplored

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manuscripts still available in libraries in India and abroad.

Short biographies, filled with anecdotes, present the important mathematical contributions of Euclid, Archimedes, Aryabhata, al-Khwarismi, Descartes, Newton, Lagrange, Gauss, Galois, von Neumann and Wiener.

One of the greatest mathematicians in the world, Michael Atiyah has earned numerous honors, including a Fields Medal, the mathematical equivalent of the Nobel Prize. While the focus of his work has been in the areas of algebraic geometry and topology, he

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has also participated in research with theoretical physicists. For the first time, these volumes bring together Atiyah's collected papers--both monographs and collaborative works-- including those dealing with mathematical education and current topics of research such as K-theory and gauge theory. The volumes are organized thematically. They will be of great interest to research mathematicians, theoretical physicists, and graduate students in these areas.

Why Beauty Is Truth

Multicultural Approaches in Math and Science

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Emmy Noether

The Man Who Knew Infinity

The Rebel Women of Mathematics

*The Algebra of Mohammed Ben Musa. Ed. and
Transl. by Frederic Rosen*

Significant Figures

"The son of a prominent Japanese mathematician who came to the United States after World War II, Ken Ono was raised on a diet of high expectations and little praise. Rebellious against his pressure-cooker of a life, Ken determined to drop out of high school to follow his own path. To obtain his father's approval, he

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invoked the biography of the famous Indian mathematical prodigy Srinivasa Ramanujan, whom his father revered, who had twice flunked out of college because of his single-minded devotion to mathematics. Ono describes his rocky path through college and graduate school, interweaving Ramanujan's story with his own and telling how at key moments, he was inspired by Ramanujan and guided by mentors who encouraged him to pursue his interest in exploring Ramanujan's mathematical legacy. Picking up where others left off, beginning with

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the great English mathematician G.H. Hardy, who brought Ramanujan to Cambridge in 1914, Ono has devoted his mathematical career to understanding how in his short life, Ramanujan was able to discover so many deep mathematical truths, which Ramanujan believed had been sent to him as visions from a Hindu goddess. And it was Ramanujan who was ultimately the source of reconciliation between Ono and his parents. Ono's search for Ramanujan ranges over three continents and crosses paths with mathematicians whose lives span the globe and

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the entire twentieth century and beyond. Along the way, Ken made many fascinating discoveries. The most important and surprising one of all was his own humanity."

The true story that inspired the 2020 film. The autobiography of mathematician Stanislaw Ulam, one of the great scientific minds of the twentieth century, tells a story rich with amazingly prophetic speculations and peppered with lively anecdotes. As a member of the Los Alamos National Laboratory from 1944 on, Ulam helped to precipitate some of the most dramatic

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changes of the postwar world. He was among the first to use and advocate computers for scientific research, originated ideas for the nuclear propulsion of space vehicles, and made fundamental contributions to many of today's most challenging mathematical projects. With his wide-ranging interests, Ulam never emphasized the importance of his contributions to the research that resulted in the hydrogen bomb. Now Daniel Hirsch and William Mathews reveal the true story of Ulam's pivotal role in the making of the "Super," in their historical

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introduction to this behind-the-scenes look at the minds and ideas that ushered in the nuclear age. An epilogue by Françoise Ulam and Jan Mycielski sheds new light on Ulam's character and mathematical originality.

A biography of the Indian mathematician Srinivasa Ramanujan. The book gives a detailed account of his upbringing in India, his mathematical achievements, and his mathematical collaboration with English mathematician G. H. Hardy. The book also reviews the life of Hardy and the academic

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culture of Cambridge University during the early twentieth century.

Provides an account of nine women mathematicians, their lives and their work, with mathematics activities which relate to the work of each.

Mathematical Reasoning

The Grolier Library of Science Biographies: Klug-Mariotte

The Story of Paul Erdős and the Search for Mathematical Truth

Mathematicians are People, Too

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Reaching for the Moon

Directory of Web Sites

The Boy Who Loved Math

Top mathematicians talk about their work and lives

Fascinating Mathematical People is a collection of informal interviews and memoirs of sixteen

prominent members of the mathematical

community of the twentieth century, many still

active. The candid portraits collected here

demonstrate that while these men and women vary

widely in terms of their backgrounds, life stories,

and worldviews, they all share a deep and abiding

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sense of wonder about mathematics. Featured here—in their own words—are major research mathematicians whose cutting-edge discoveries have advanced the frontiers of the field, such as Lars Ahlfors, Mary Cartwright, Dusa McDuff, and Atle Selberg. Others are leading mathematicians who have also been highly influential as teachers and mentors, like Tom Apostol and Jean Taylor. Fern Hunt describes what it was like to be among the first black women to earn a PhD in mathematics. Harold Bacon made trips to Alcatraz to help a prisoner learn calculus. Thomas Banchoff, who first became interested in the fourth

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dimension while reading a Captain Marvel comic, relates his fascinating friendship with Salvador Dal í and their shared passion for art, mathematics, and the profound connection between the two. Other mathematical people found here are Leon Bankoff, who was also a Beverly Hills dentist; Arthur Benjamin, a part-time professional magician; and Joseph Gallian, a legendary mentor of future mathematicians, but also a world-renowned expert on the Beatles. This beautifully illustrated collection includes many photographs never before published, concise introductions by the editors to each person, and a foreword by

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Philip J. Davis.

Professor Atiyah is one of the greatest living mathematicians and is renowned in the mathematical world. He is a recipient of the Fields Medal, the mathematical equivalent of the Nobel Prize, and is still actively involved in the mathematics community. His huge number of published papers, focusing on the areas of algebraic geometry and topology, have here been collected into seven volumes, with the first five volumes divided thematically and the sixth and seventh arranged by date. This seventh volume in Michael Atiyah's Collected Works contains a

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selection of his publications between 2002 and 2013, including his work on skyrmions; K-theory and cohomology; geometric models of matter; curvature, cones and characteristic numbers; and reflections on the work of Riemann, Einstein and Bott.

John Wallis (1616-1703) was the most influential English mathematician prior to Newton. He published his most famous work, *Arithmetica Infinitorum*, in Latin in 1656. This book studied the quadrature of curves and systematised the analysis of Descartes and Cavalieri. Upon publication, this text immediately became the standard book on the

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subject and was frequently referred to by subsequent writers. This will be the first English translation of this text ever to be published. From rocket scientists to code breakers, discover the incredibly inspiring stories of more than 30 women who fought through the obstacles, shattered the stereotypes, and embraced their STEM passions. Prepare to be inspired. With more than 200 photos and original interviews with several of the amazing women covered, *Power in Numbers: The Rebel Women of Mathematics* is a full-color volume that takes aim at the forgotten influence of women on the development of

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mathematics over the last two millennia. Each biography reveals the amazing life of a different female mathematician, from her childhood and early influences, to the obstacles she faced and the great achievements she made in spite of them. Learn how: After her father terminated her math lessons, Sofia Kovalevskaya snuck algebra books into her bed to read at night. Emmy Noether became an invaluable resource to Albert Einstein while she was in the Navy. Native American rocket scientist Mary Golda Ross developed designs for fighter jets and missiles in a top-secret unit. Katherine Johnson ' s life-or-death calculations at NASA

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meant that astronauts such as Alan Shepard and John Glenn made it home alive. Shakuntala Devi multiplied massive numbers in her head so her family could eat at night. Pamela Harris proved her school counselors wrong when they told her she would only succeed as a bilingual secretary. Carla Cotwright-Williams began her life in the dangerous streets of South-Central Los Angeles before skyrocketing to a powerful career with the Department of Defense in Washington DC. One thing uniting these women ' s stories is that at some point on their journeys, someone believed in them; someone made them think the impossible was

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perhaps not so impossible. May their stories empower the next generation of STEM rebels to continue advancing mathematical theory, bringing awareness to the field, and increasing our Power in Numbers.

A Biographical Dictionary

Studies in the History of Indian Mathematics

My Search for Ramanujan

The Grolier Library of Science Biographies: Salk-Tsui

Short Biographies of Some Contributors to the History of Mathematics

Fibonacci ' s Liber Abaci

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Stories from the Lives of Great Mathematicians
An entertaining history of mathematics as chronicled through fifty short biographies. Mathematics today is the fruit of centuries of brilliant insights by men and women whose personalities and life experiences were often as extraordinary as their mathematical achievements. This entertaining history of mathematics chronicles those achievements through fifty short biographies that bring these great thinkers to life while making their contributions understandable to readers with little math background. Among the fascinating characters

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profiled are Isaac Newton (1642-1727), the founder of classical physics and infinitesimal calculus--he frequently quarreled with fellow scientists and was obsessed by alchemy and arcane Bible interpretation; Sophie Germain (1776 - 1831), who studied secretly at the École Polytechnique in Paris, using the name of a previously enrolled male student--she is remembered for her work on Fermat's Last Theorem and on elasticity theory; Emmy Noether (1882 - 1935), whom Albert Einstein described as the most important woman in the history of mathematics--she made important contributions to abstract algebra and in

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physics she clarified the connection between conservation laws and symmetry; and Srinivasa Ramanujan (1887-1920), who came from humble origins in India and had almost no formal training, yet made substantial contributions to mathematical analysis, number theory, infinite series, and continued fractions. The unusual behavior and life circumstances of these and many other intriguing personalities make for fascinating reading and a highly enjoyable introduction to mathematics.

Overloaded with the mass of information on the Internet? Frustrated by how difficult it is to find what

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you really want? Now you don't need to spend hours browsing around the Internet or grappling with the huge number of "hits" from an Internet search engine: the Directory of Web Sites will take you straight to the best educational sites on the Internet. From archaeology to zoology, from dance to technology, the Directory provides information more than 5,500 carefully selected Web sites that represent the best of what the Internet has to offer. The sites are grouped by subject; each one features a full description; and the text is complemented throughout by screenshots and fact boxes. As well, sites have been selected purely

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on educational merit: all sites with overtly commercial content and influence from Internet providers have been excluded.

An electrifying biography of one of the most extraordinary scientists of the twentieth century and the world he made. The smartphones in our pockets and computers like brains. The vagaries of game theory and evolutionary biology. Nuclear weapons and self-replicating spacecrafts. All bear the fingerprints of one remarkable, yet largely overlooked, man: John von Neumann. Born in Budapest at the turn of the century, von Neumann is one of the most influential

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scientists to have ever lived. A child prodigy, he mastered calculus by the age of eight, and in high school made lasting contributions to mathematics. In Germany, where he helped lay the foundations of quantum mechanics, and later at Princeton, von Neumann's colleagues believed he had the fastest brain on the planet—bar none. He was instrumental in the Manhattan Project and the design of the atom bomb; he helped formulate the bedrock of Cold War geopolitics and modern economic theory; he created the first ever programmable digital computer; he prophesized the potential of nanotechnology; and,

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from his deathbed, he expounded on the limits of brains and computers—and how they might be overcome. Taking us on an astonishing journey, Ananyo Bhattacharya explores how a combination of genius and unique historical circumstance allowed a single man to sweep through a stunningly diverse array of fields, sparking revolutions wherever he went. *The Man from the Future* is an insightful and thrilling intellectual biography of the visionary thinker who shaped our century.

This book, written primarily for the young adult reader, tells the life story of Emmy Noether, the most

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important female mathematician of our time. Because no one expected her to grow into an important scientist, the records of her early life are sketchy. After all, it was assumed that she would grow up to be a wife and mother. Instead, she was a g

Fascinating Mathematical People

A Translation into Modern English of Leonardo Pisano's Book of Calculation

History of Banach Spaces and Linear Operators

A Genius and the Mathematical Breakthrough of a Lifetime

Volume 7: 2002-2013

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Called Too Soon by Flames Afar

The development of mathematical competence -- both by humans as a species over millennia and by individuals over their lifetimes -- is a fascinating aspect of human cognition. This book explores a vast range of psychological questions related to mathematical cognition, and provides fascinating insights for researchers and students of cognition and instructors of mathematics.

Mathematical Time Capsules offers teachers historical modules for immediate use in the mathematics

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classroom. Readers will find articles and activities from mathematics history that enhance the learning of topics covered in the undergraduate or secondary mathematics curricula. Each capsule presents at least one topic or a historical thread that can be used throughout a course. The capsules were written by experienced practitioners to provide teachers with historical background and classroom activities designed for immediate use in the classroom, along with further references and resources on the chapter subject. --Publisher description.

Looks at the history of mathematical discoveries and the lives of great mathematicians.

The biography of a mathematical genius. Paul Erdos was

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the most prolific pure mathematician in history and, arguably, the strangest too. 'A mathematical genius of the first order, Paul Erdos was totally obsessed with his subject -- he thought and wrote mathematics for nineteen hours a day until he died. He travelled constantly, living out of a plastic bag and had no interest in food, sex, companionship, art -- all that is usually indispensable to a human life. Paul Hoffman, in this marvellous biography, gives us a vivid and strangely moving portrait of this singular creature, one that brings out not only Erdos's genius and his oddness, but his warmth and sense of fun, the joyfulness of his strange life.' Oliver Sacks For six decades Erdos had no job, no hobbies, no wife, no

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home; he never learnt to cook, do laundry, drive a car and died a virgin. Instead he travelled the world with his mother in tow, arriving at the doorstep of esteemed mathematicians declaring 'My brain is open'. He travelled until his death at 83, racing across four continents to prove as many theorems as possible, fuelled by a diet of espresso and amphetamines. With more than 1,500 papers written or co-written,

The Man from the Future: The Visionary Ideas of John von Neumann

The Complete Home Learning Sourcebook

Michael Atiyah Collected Works

Whoever Thought of That?

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The Mathematician's Brain
Notable Women in Mathematics
The Arithmetic of Infinitesimals

An engaging picture book biography of a groundbreaking female mathematician. Emmy Noether is not pretty, quiet or good at housework — all the things a girl of her time is expected to be. What she is, though, is brilliant at math. And when she grows up, she skirts the rules to first study math at a university and then teach it. She also helps to solve of the most pressing mathematical and physics problems of the day. And though she doesn't get much credit during her lifetime, her discoveries continue to influence how we understand the world today. One of the most influential mathematicians of the twentieth century finally gets her due!

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Everyone with an interest in the history of mathematics and science will enjoy reading this book on one of the most famous mathematicians of the 19th century. The author, who is both a historian and a mathematician, has written the definitive biography of Niels Henrik Abel.

ENC Focus

Mathematical Time Capsules

The Improbable Life of Paul Erdos

The Autobiography of NASA Mathematician Katherine Johnson

Interviews and Memoirs