

Math Through The Ages A Gentle History For Teachers And

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 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.

SHORTLISTED FOR THE 2017 ROYAL SOCIETY SCIENCE BOOK PRIZE Even small children know there are infinitely many whole numbers - start counting and you'll never reach the end. But there are also infinitely many decimal numbers between zero and one. Are these two types of infinity the same? Are they larger or smaller than each other? Can we even talk about 'larger' and 'smaller' when we talk about infinity? In Beyond Infinity, international maths sensation Eugenia Cheng reveals the inner workings of infinity. What happens when a new guest arrives at your infinite hotel - but you already have an infinite number of guests? How does infinity give Zeno's tortoise the edge in a paradoxical foot-race with Achilles? And can we really make an infinite number of cookies from a finite amount of cookie dough? Wielding an armoury of inventive, intuitive metaphor, Cheng draws beginners and enthusiasts alike into the heart of this mysterious, powerful concept to reveal fundamental truths about mathematics, all the way from the infinitely large down to the infinitely small.

Why are we all taught maths for years of our lives? Does it really empower everyone? Or fail most and disenfranchise many? Is it crucial for the AI age or an obsolete rite of passage? The Math(s) Fix: An Education Blueprint for the AI Age is a groundbreaking book that exposes why maths education is in crisis worldwide and how the only fix is a fundamentally new mainstream subject. It argues that today's maths education is not working to elevate society with modern computation, data science and AI. Instead, students are subjugated to compete with what computers do best, and lose. This is the only book to explain why being "bad at maths" may be as much the subject's fault as the learner's: how a stuck educational ecosystem has students, parents, teachers, schools, employers and policymakers running in the wrong direction to catch up with real-world requirements. But it goes further too - for the first time setting out a completely alternative vision for a core computational school subject to fix the problem and seed more general reformation of education for the AI age. Think math is boring? Think again! Algebra to Calculus: Unlocking

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Math's Amazing Power tells the story of algebra and calculus to explore the surprising, fascinating and sometimes mind-boggling evolution of mathematics through the ages. How do you make a decision with numbers? You have to use a kind of math called Boolean algebra- it's a little strange because it only ever uses two numbers 1 or 0, and $1+1$ always equals 1. Despite this weirdness, this algebra is used to create the nanoscale circuits in every microchip. Do you want to know more? Written to engage, entertain and enthuse readers young and old, Algebra to Calculus: Unlocking Math's Amazing Power takes an entirely new approach to the wonderful world of mathematics. Along the way, readers will meet with geniuses, such as Diophantus and Newton, who figured out how to turn math problems into general techniques that worked whatever the situation. Readers will not only learn how computer chips process their programs, but also how a smartphone knows where it is, what the link is between snowflakes, cannonballs and wine barrels, and how Carl Gauss figured out how to add up all the numbers between 1 and 100 in less than a minute-when he was just 10 years old! Algebra to Calculus: Unlocking Math's Amazing Power shows there is a lot more going on than just $x + y = z$.

The Mathematics of the Heavens and the Earth

Significant Figures

The Improbable Life of Paul Erdos

The Math(s) Fix

An expedition to the outer limits of the mathematical universe

Why did Florence Nightingale introduce pie charts? How did Lewis Carroll regard Pythagoras? Who learned calculus from her nursery wallpaper? Spanning from the ancient world to the modern age, The Great Mathematicians tells fascinating and unusual tales of the men and women who transformed mathematics. We meet the mathematician who knew eight languages by the time he was 11, the one who was sent to jail for gambling and the one who published a lot yet never existed. As well as providing rich bibliographic detail, Professors Raymond Flood and Robin Wilson explain various theorems using concise and accessible language. These include the Pythagorean theorem, Gödel's Incompleteness theorem, Fermat's Last Theorem and many more. Flood and Wilson are both former presidents of the British Society for the History of Mathematics and are uniquely qualified to lay out this incredible tale. This entertaining and rigorously accurate book presents mathematics with a human face, celebrating the achievements of the greatest mathematicians across history. Describes the philosophy of the Daily 5 teaching structure and includes a collection of literacy tasks for students to complete daily. This compact, well-written history covers major mathematical ideas and techniques from the ancient Near East to 20th-century computer theory, surveying the works of Archimedes, Pascal, Gauss, Hilbert, and many others. "The author's ability as a first-class historian as well as an able mathematician has enabled him to produce a work which is unquestionably

one of the best." — Nature.

Maths + history + jokes - boring bits = A Quick History of Maths. This book begins around 43,000 years ago with a notched baboon leg, the Lebombo bone (the very first mathematical object in the world) and rushes us past Hindu numerals and the invention of zero, via Pythagoras, Pascal and probability, right up to the present day, with big data and the maths that rules our digital lives. Geometri-cool! You will discover: How to count on your fingers (there are more ways than you might think!) Why we have 60 seconds in a minute (hint: it's to do with the ancient Babylonians) How to count like an Egyptian (using hieroglyphs) Why it's hip to be square using square numbers A Pythagorean party trick The naked truth of Archimedes' bath time mathematics How to do matha-magic with magic squares ...and much more. In chronological order from pre-history to present day, this is the story of maths itself. It's 43,000 years of human mathematical endeavor squeezed into one book for your reading pleasure. Illustrated with funny cartoons and packed with fascinating facts, you'll be laughing and learning how to be a better mathematician.

From Counting Cavemen to Big Data

A Gentle History for Teachers and Others by Berlinghoff, William P. / Gouvea, Fernando, ISBN

Mathematics Throughout the Ages

The Historical Roots of Elementary Mathematics

Outlines and Highlights for Math Through the Ages

Unravelling the Mysteries of the Universe

The Mathematics of the Heavens and the Earth is the first major history in English of the origins and early development of trigonometry. Glen Van Brummelen identifies the earliest known trigonometric precursors in ancient Egypt, Babylon, and Greece, and he examines the revolutionary discoveries of Hipparchus, the Greek astronomer believed to have been the first to make systematic use of trigonometry in the second century BC while studying the motions of the stars. The book traces trigonometry's development into a full-fledged mathematical discipline in India and Islam; explores its applications to such areas as geography and seafaring navigation in the European Middle Ages and Renaissance; and shows how trigonometry retained its ancient roots at the same time that it became an important part of the foundation of modern mathematics. The Mathematics of the Heavens and the Earth looks at the controversies as well, including disputes over whether Hipparchus was indeed the father of trigonometry, whether Indian trigonometry is original or derived from the

Greeks, and the extent to which Western science is indebted to Islamic trigonometry and astronomy. The book also features extended excerpts of translations of original texts, and detailed yet accessible explanations of the mathematics in them. No other book on trigonometry offers the historical breadth, analytical depth, and coverage of non-Western mathematics that readers will find in *The Mathematics of the Heavens and the Earth*.

An exploration of mathematical style through 99 different proofs of the same theorem This book offers a multifaceted perspective on mathematics by demonstrating 99 different proofs of the same theorem. Each chapter solves an otherwise unremarkable equation in distinct historical, formal, and imaginative styles that range from Medieval, Topological, and Doggerel to Chromatic, Electrostatic, and Psychedelic. With a rare blend of humor and scholarly aplomb, Philip Ording weaves these variations into an accessible and wide-ranging narrative on the nature and practice of mathematics. Inspired by the experiments of the Paris-based writing group known as the Oulipo—whose members included Raymond Queneau, Italo Calvino, and Marcel Duchamp—Ording explores new ways to examine the aesthetic possibilities of mathematical activity. *99 Variations on a Proof* is a mathematical take on Queneau's *Exercises in Style*, a collection of 99 retellings of the same story, and it draws unexpected connections to everything from mysticism and technology to architecture and sign language. Through diagrams, found material, and other imagery, Ording illustrates the flexibility and creative potential of mathematics despite its reputation for precision and rigor. Readers will gain not only a bird's-eye view of the discipline and its major branches but also new insights into its historical, philosophical, and cultural nuances. Readers, no matter their level of expertise, will discover in these proofs and accompanying commentary surprising new aspects of the mathematical landscape.

Math Through the Ages A Gentle History for Teachers and Others MAA

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 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.

A Gentle History for Teachers and Others

Math Through the Ages

The Math Book

How Families Can Learn Math Together—and Enjoy It

Making Sense of It All!

Beauty in Mathematical Proof

'Math through the Ages' is a treasure, one of the best history of math books at its level ever written. Somehow, it manages to stay true to a surprisingly sophisticated story, while respecting the needs of its audience. Its overview of the subject captures most of what one needs to know, and the 30 sketches are small gems of exposition that stimulate further exploration. --Glen van Brummelen, Quest University, President (2012–14) of the Canadian Society for History and Philosophy of Mathematics Where did math come from? Who thought up all those algebra symbols, and why? What is the story behind π ? ... negative numbers? ... the metric system? ... quadratic equations? ... sine and cosine? ... logs? The 30 independent historical sketches in *Math through the Ages* answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30 short stories are preceded by a 58-page bird's-eye overview of the entire panorama of mathematical history, a whirlwind tour of the most important people, events, and trends that shaped the mathematics we know today. 'What to Read Next' and reading suggestions after each sketch provide starting points for readers who want to learn more. This book is ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and anyone who just wants to know a little more about the origins of mathematics.

This book looks carefully at Archimedes' fundamental advances in the fields of geometry, mechanics, and hydrostatics.

Beast Academy Guide 2D and its companion Practice 2D (sold separately) are the fourth part in a four-part series for 2nd grade mathematics.

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Book 2d includes chapters on big numbers, algorithms for addition and subtraction, and problem solving.

One of the leading historians in the mathematics field, Victor Katz provides a world view of mathematics, balancing ancient, early modern, and modern history.

Beyond Infinity

Math through the Ages: A Gentle History for Teachers and Others Expanded Second Edition

Bedtime Math: A Fun Excuse to Stay Up Late

Zero

A Concise History of Mathematics

Principles of Mathematics + Teachers Guide

Our mission: to make math a fun part of kids' everyday lives. We all know it's wonderful to read bedtime stories to kids, but what about doing math? Many generations of Americans are uncomfortable with math and numbers, and too often we hear the phrase, "I'm just not good at math!" For decades, this attitude has trickled down from parents to their kids, and we now have a culture that finds math dry, intimidating, and just not cool.

Bedtime Math wants to change all that. Inside this book, families will find fun, mischief-making math problems to tackle—math that isn't just kid-friendly, but actually kid-appealing. With over 100 math riddles on topics from jalapeños and submarines to roller coasters and flamingos, this book bursts with math that looks nothing like school. And with three different levels of challenge (wee ones, little kids, and big kids), there's something for everyone. We can make numbers fun, and change the world, one Bedtime Math puzzle at a time. Exciting, hands-on approach to understanding fundamental underpinnings of modern arithmetic, algebra, geometry and number systems examines their origins in early Egyptian, Babylonian, and Greek sources.

Where did math come from? Who thought up all those algebra symbols, and why? What is the story behind ... negative numbers? ... the metric system? ... quadratic equations? ... sine and cosine? ... logs? The 30 independent historical sketches in Math through the Ages answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30 short stories are preceded by a 58-page bird's-eye overview of the entire panorama of mathematical history, a whirlwind tour of the most important people, events, and trends that shaped the mathematics we know today. "What to Read Next" and reading suggestions after each sketch provide starting points for

readers who want to learn more. This book is ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and anyone who just wants to know a little more about the origins of mathematics. A NEW YORK TIMES NOTABLE BOOK The Babylonians invented it, the Greeks banned it, the Hindus worshipped it, and the Christian Church used it to fend off heretics. Today it's a timebomb ticking in the heart of astrophysics. For zero, infinity's twin, is not like other numbers. It is both nothing and everything. Zero has pitted East against West and faith against reason, and its intransigence persists in the dark core of a black hole and the brilliant flash of the Big Bang. Today, zero lies at the heart of one of the biggest scientific controversies of all time: the quest for a theory of everything. Within the concept of zero lies a philosophical and scientific history of humanity. Charles Seife's elegant and witty account takes us from Aristotle to superstring theory by way of Egyptian geometry, Kabbalism, Einstein, the Chandrasekhar limit and Stephen Hawking. Covering centuries of thought, it is a concise tour of a world of ideas, bound up in the simple notion of nothing.

Mathematics for High School Teachers

Mathematics Across Cultures

Unlocking Math's Amazing Power: Algebra to Calculus

From Pythagoras to the 57th Dimension, 250 Milestones in the History of Mathematics

Q.E.D.

Math Through the Ages, Expanded Second Edition

For algebra or geometry courses for teachers; courses in topics of mathematics; capstone courses for teachers or other students of mathematics; graduate courses for practicing teachers; or students who want a better understanding of mathematics. Filling a wide gap in the market, this text provides current and prospective high school teachers with an advanced treatment of mathematics that will help them understand the connections between the mathematics they will be teaching and the mathematics learned in college. It presents in-depth coverage of the most important concepts in high school mathematics: real numbers, functions, congruence, similarity, and more.

*When Caren Holtzman and Lynn Susholtz look around a classroom, they see "a veritable goldmine of mathematical investigations" involving number, measurement, size, shape, symmetry, ratio, and proportion. They also think of the ways great artists have employed these concepts in their depictions of objects and space--for example, Picasso's use of geometric shapes in his Cubist still lifes or contemporary artist Tara Donovan's room-sized sculptures of everyday items. In their new book *Object Lessons*, Caren (a math educator) and Lynn (an artist and art educator) use a highly visual approach to show students and teachers the art in math and the math in art. Integrating visual arts into math experiences makes the lessons accessible, engaging, and meaningful for a wide range of students. In each chapter, the authors use everyday objects to create rigorous, hands-on activities that address key mathematics standards and concepts. Each lesson provides: * an introduction to the featured object that explains how it connects to key mathematical concepts; * a discussion of the artists, art styles and techniques featured; * activities organized by grade level and math content area; * the basic materials required to prepare and teach each lesson; * a clear picture of what the lesson will look like in a*

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classroom; and * a list of resources. The book and its accompanying CD feature a wonderful gallery of images--including art photos and student work--and a collection of links to art education organizations, museums, and Web sites that focus on the work of forty major artists.

Mathematics Across Cultures: A History of Non-Western Mathematics consists of essays dealing with the mathematical knowledge and beliefs of cultures outside the United States and Europe. In addition to articles surveying Islamic, Chinese, Native American, Aboriginal Australian, Inca, Egyptian, and African mathematics, among others, the book includes essays on Rationality, Logic and Mathematics, and the transfer of knowledge from East to West. The essays address the connections between science and culture and relate the mathematical practices to the cultures which produced them. Each essay is well illustrated and contains an extensive bibliography. Because the geographic range is global, the book fills a gap in both the history of science and in cultural studies. It should find a place on the bookshelves of advanced undergraduate students, graduate students, and scholars, as well as in libraries serving those groups.

Katherine Loop has done the remarkable! She has written a solid math course with a truly Biblical worldview. This course goes way beyond the same old Christian math course that teaches math with a few Scriptures sprinkled in and maybe some church-based word problems. This course truly transforms the way we see math. Katherine makes the argument that math is not a neutral subject as most have come to believe. She carefully lays the foundation of how math points to our Creator, the God of the Bible. The nature of God, His Creation, and even the Gospel itself is seen through the study of math. Katherine does a marvelous job of revealing His Glory in this one-of-a-kind math course. Katherine Loop's *Principles of Mathematics Biblical Worldview Curriculum* is a first of its kind. It takes math to a whole new level students and parents are going to love. It is a guaranteed faith grower!

Fostering Literacy Independence in the Elementary Grades

The Great Mathematicians

The Boy Who Loved Math

Simply Maths

Math for the Ages!

An Introduction

Understanding maths has never been easier. Combining bold, elegant graphics with easy-to-understand text, *Simply Maths* is the perfect introduction to the subject for those who are short of time but hungry for knowledge. Covering more than 90 key mathematical concepts from prime numbers and fractions to quadratic equations and probability experiments, each pared-back, single-page entry explains the concept more clearly than ever before. Organized by major themes - number theory and systems; calculations; geometry; algebra; graphs; ratio and proportion; measurement; probability and statistics; and calculus - entries explain the essentials of each key mathematical theory with simple clarity and for ease of understanding. Whether you are studying maths at school or college, or simply want a jargon-free overview of the subject, this indispensable guide is packed with everything you need to understand the basics quickly and easily.

Have you ever noticed that we tend to compartmentalize when teaching our children? In real life, there aren't artificial barriers between "subjects." For example, when you are cooking or baking, you have to use the skills of reading, logical thinking, and measuring, just to name a few. In driving a car, you see and read road signs, read maps, and count miles. It has become quite clear that there is an abundance of math curriculums available that are nothing but monotonous drill sheets dressed up in pretty colors. Pretty colors do not make a living book. Content,

story, and the ability to show math in real life make a living math book. Math Level 1: Teach math lessons through the creative means of a life story Provides a link for the downloadable answer key Has a scope and sequence that contains learning numbers 0 to 100, circles and patterns, counting and addition, days of the week, and telling time. This book was written to be used by you and your young student together. It is the story of a twin brother and sister, Charlie and Charlotte, who are visiting their grandparents' farm. They soon learn that the farm is full of learning opportunities! As you read their story, your students will be drawn into the adventure along with the twins. They will learn about numbers, shapes, place value, adding, and subtracting. They will also learn about gardening, baby animals on the farm, nature, and the love of family. They will hear exciting stories from Grandpa and Grandma, and they will be invited to join the twins on their living math adventures. We hope you have a grand time on this adventure!

Why am I writing a Math book? The book's focus is on how to solve math problems quickly and in your head as much as possible. Speed without sacrificing accuracy is the primary emphasis. Both can be achieved. I have always loved basic math and have enjoyed mental math since my childhood days. The good foundation has helped me greatly later in my career. I have worked with my kids on math problems and enjoy working with them. I believe I can present the tips and thought process in solving math problems intuitively. I enjoy writing books and have written two successful books, the first one on Advanced Chip design, closely related to my work, and the second one on stock investments and personal finance, another subject close to my heart. There are numerous books available, and as a writer, the challenge always is how much and what to present. I have researched it thoroughly and have very high hopes that this book on math will be for the ages and something to keep for a lifetime. My expectation is that students receive perfect math score (800) or scores close to 800. I worked with my son on his SAT math prep. I helped him in understanding various math concepts and how to speed up. I believe it helped, though I give him credit for his determination and openness to learning. He scored close to perfect (790 out of 800) on SAT math. Last but not the least, it will be a befitting tribute to my Mom, who shaped my early years (she was also my school math teacher) and built a strong foundation on math for me. I am excited that she is also a contributor to this book.

What is new in the book? Apart from its format, in brief, it has thought-provoking angles of observation and deductive conclusions on many topics, which may look ordinary or rare. Who will benefit from the book? Any lay person with an historical bent of mind on mathematical topics stands to gain from it. Both undergraduate and graduate students in history of mathematics courses would enjoy it. All reflections are independent they are excellent bedtime reading too.

A Quick History of Maths

A History of Mathematics

Darts on History of Mathematics

Teaching Math Through the Visual Arts, K-5

An Education Blueprint for the AI Age SAT and High School Math

"This is a beautiful, important book, a pleasure to read, in which the history recounted truly illuminates the mathematical ideas, and the ideas themselves are superbly explained; a wonderful accomplishment."

– Barry Mazur, Harvard University "Math Through the Ages is a treasure, one of the best history of math books at its level ever written. Somehow, it manages to stay true to a surprisingly sophisticated story, while respecting the needs of its audience. Its overview of the subject captures most of what one needs to know, and the 30 sketches are small gems of exposition that stimulate further exploration." – Glen Van Brummelen, Quest University
Designed for students just beginning their study of the discipline, this concise introductory history of mathematics is supplemented by brief but in-depth sketches of the more important individual topics. Covering such subjects as algebra symbols, negative numbers, the metric system, quadratic equations, and much more, this widely adopted work invites and encourages further study of mathematics.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific.
Accompanys: 9780883857366 .

"What's new in this edition? We have added new content and also tried to make improvements to the existing material. There are five new historical sketches, on: The tangent function and how it made its way into trigonometry. Logarithms, both decimal and natural. Conic sections: ellipses, parabolas, and hyperbolas. Irrational numbers. The derivative. As always, each of these come with Questions and Projects that try to address both the mathematics and the history, challenging students to go deeper into the topic. We also worked through the whole book to improve, correct, and update. Research on the history of mathematics continues, and we have learned new things over the last ten years. Historians make mistakes, especially when they are quoting other historians, and we have tried to correct all the ones that we knew about. Many new books have been published over the last dozen years, so the bibliography has been completely updated and the notes on "what to read next" reflect the latest resources. The questions and projects have been examined and, when it seemed appropriate, revised. The Instructor's Guide was thoroughly revised as well"--

Q.E.D. presents some of the most famous mathematical proofs in a charming book that will appeal to nonmathematicians and math experts alike. Grasp in an instant why Pythagoras's theorem must be correct. Follow the ancient Chinese proof of the volume formula for the frustrating frustum, and Archimedes' method for finding the volume of a sphere. Discover the secrets of pi and why, contrary to popular belief, squaring the circle really is possible. Study the subtle art of mathematical domino tumbling, and find out how slicing cones helped save a city and put a man on the moon.

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Archimedes

What Did He Do Beside Cry Eureka?

Historical Topics for the Mathematics Classroom

Beast Academy Guide 2D

The Daily 5

An Advanced Perspective

An informal and accessible overview of the history of mathematics.

This book covers 250 milestones in mathematical history, beginning millions of years ago with ancient "ant odometers" and moving through time to our modern-day quest for new dimensions.

The updated new edition of the classic and comprehensive guide to the history of mathematics For more than forty years, A History of Mathematics has been the reference of choice for those looking to learn about the fascinating history of humankind's relationship with numbers, shapes, and patterns. This revised edition features up-to-date coverage of topics such as Fermat's Last Theorem and the Poincaré Conjecture, in addition to recent advances in areas such as finite group theory and computer-aided proofs. Distills thousands of years of mathematics into a single, approachable volume Covers mathematical discoveries, concepts, and thinkers, from Ancient Egypt to the present Includes up-to-date references and an extensive chronological table of mathematical and general historical developments. Whether you're interested in the age of Plato and Aristotle or Poincaré and Hilbert, whether you want to know more about the Pythagorean theorem or the golden mean, A History of Mathematics is an essential reference that will help you explore the incredible history of mathematics and the men and women who created it.

p-adic numbers are of great theoretical importance in number theory, since they allow the use of the language of analysis to study problems relating to prime numbers and diophantine equations. Further, they offer a realm where one can do things that are very similar to classical analysis, but with results that are quite unusual. The book should be of use to students interested in number theory, but at the same time offers an interesting example of the many connections between different parts of mathematics. The book strives to be understandable to an undergraduate audience. Very little background has been assumed, and the presentation is leisurely. There are many problems, which should help readers who are working on their own (a large appendix with hints on the problem is included). Most of all, the book should offer undergraduates exposure to some interesting mathematics which is off the beaten track. Those who will later specialize in number theory, algebraic geometry, and related subjects will benefit more directly, but all mathematics students can enjoy the book.

The Lives and Work of Great Mathematicians

99 Variations on a Proof

Object Lessons

Inside Mathematics

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And

The Biography of a Dangerous Idea
Let's Play Math