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Fibonacci's Liber Abaci-Laurence Sigler 2012-12-06 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.

Growing Patterns-Sarah C. Campbell 2020-10-13 The biggest mathematical mystery in nature—Fibonacci numbers! Named after a famous mathematician, the number pattern is simple: 1, 1, 2, 3, 5, 8, 13. . . . Each number in the sequence comes from adding the two numbers before it. What's the mystery? The pattern crops up in the most unexpected places. You'll find it in the disk of a sunflower, the skin of a pineapple, and the spiral of a nautilus shell. No one knows how nature came up with the sequence. Sarah C. and Richard P. Campbell introduce the Fibonacci sequence through a series of stunning photographs in this ALA Notable Children's Book. Young readers will soon be seeing nature through new eyes, looking for Fibonacci numbers in daisies, pinecones, leaf patterns, seashells, and more.

Learning Design-James Dalziel 2015-12-07 The new field of learning design has the potential to revolutionize not only technology in education, but the whole field of teaching and learning through the application of design thinking to education. Learning Design looks inside the "black box" of pedagogy to understand what teachers and learners do together, and how the best teaching ideas can be shared on a global scale. Learning design supports all pedagogical approaches, content areas, and fields of education. The book opens with a new synthesis of the field of learning design and its place in educational theory and practice, and goes on to explore the implications of learning design for many areas of education—both practical and theoretical—in a series of chapters by Larnaca Declaration authors and other international experts.

Mindset Mathematics: Visualizing and Investigating Big Ideas, Grade 3-Jo Boaler 2018-07-12 Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts. In this volume, you'll find a collection of low floor, high ceiling tasks that will help you do just that, by looking at the big ideas at the third-grade level through visualization, play, and investigation. During their work with tens of thousands of teachers, authors Jo Boaler, Jen Munson, and Cathy Williams heard the same message—that they want to incorporate more brain science into their math instruction, but they need guidance in the techniques that work best to get across the concepts they needed to teach. So the authors designed Mindset Mathematics around the principle of active student engagement, with tasks that reflect the latest brain science on learning. Open, creative, and visual math tasks have been shown to improve student test scores, and more importantly change their relationship with mathematics and start believing in their own potential. The tasks in Mindset Mathematics reflect the lessons from brain science that: There is no such thing as a math person - anyone can learn mathematics to high levels. Mistakes, struggle and challenge are the most important times for brain growth. Speed is unimportant in mathematics. Mathematics is a visual and beautiful subject, and our brains want to think visually about mathematics. With engaging questions, open-ended tasks, and four-color visuals that will help kids get excited about mathematics, Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State Standards (CCSS) and can be used with any current curriculum.

Blockhead-Joseph D'Agnese 2010-03-30 A biography of Leonardo Fibonacci, the 12th century mathematician who discovered the numerical sequence named for him.

The Rabbit Problem- 2010-11-02 In Fibonacci's Field, Lonely and Chalk Rabbit meet, snuggle together and then spend a year trying to cope with their ever-increasing brood and the seasonal changes that bring a new challenge each month. Presented in calendar format with one pop-up illustration and other special features.

Day-by-day Math-Susan Ohanian 2000 "Day-by-Day Math provides teachers and students with amazing statistics to ponder, puzzles to solve, and math magic to celebrate.

I'm Trying to Love Math-Bethany Barton 2019-07-02 Children's Choice Award winner Bethany Barton applies her signature humor to the scariest subject of all: math! Do multiplication tables give you hives? Do you break out in a sweat when you see more than a few numbers hanging out together? Then I'm Trying to Love Math is for you! In her signature hilarious style, Bethany Barton introduces readers to the things (and people) that use math in amazing ways -- like music, and spacecraft, and even baking cookies! This isn't a how-to math book, it's a way to think differently about math as a necessary and cool part of our lives!

Math Curse-Jon Scieszka 1995 When the teacher tells her class that they can think of almost everything as a math problem, one student acquires a math anxiety which becomes a real curse.

Swirl by Swirl-Joyce Sidman 2018-10-30 Sidman's lyrical poetry and Krommes' charming illustrations illuminate this intriguing shape found all throughout the universe. Young readers will enjoy discovering all of the different spirals in nature in this ebook edition. What makes the tiny snail shell so beautiful? Why does that shape occur in nature over and over again—in rushing rivers, in a flower bud, even inside your ear? With simplicity and grace, Sidman and Krommes not only reveal the many spirals in nature—from fiddleheads to elephant tusks, from crashing waves to spiraling galaxies—but also celebrate the beauty and usefulness of this fascinating shape.

Math for Mystics-Renna Shesso 2007-04-01 Much of math history comes to us from early astrologers who needed to be able to describe and record what they saw in the night sky. Whether you were the king's court astrologer or a farmer marking the best time for planting, timekeeping and numbers really mattered. Mistake a numerical pattern of petals and you could be poisoned. Lose the rhythm of a sacred dance or the meter of a ritually told story and the intricately woven threads that hold life together were spoiled. Ignore the celestial clock of equinoxes and solstices, and you'd risk being caught short of food for the winter. Shesso's friendly tone and clear grasp of the information make the math "go down easy" in this marvelous book.

Math Circle by the Bay: Topics for Grades 1–5-Laura Givental 2018-12-14 This book is based on selected topics that the authors taught in math circles for elementary school students at the University of California, Berkeley; Stanford University; Dominican University (Marin County, CA); and the University of Oregon (Eugene). It is intended for people who are already running a math circle or who are thinking about organizing one. It can be used by parents to help their motivated, math-loving kids or by elementary school teachers. We also hope that bright fourth or fifth graders will be able to read this book on their own. The main features of this book are the logical sequence of the problems, the description of class reactions, and the hints given to kids when they get stuck. This book tries to keep the balance between two goals: inspire readers to invent their own original approaches while being detailed enough to work as a fallback in case the teacher needs to prepare a lesson on short notice. It introduces kids to combinatorics, Fibonacci numbers, Pascal's triangle, and the notion of area, among other things. The authors chose topics with deep mathematical context. These topics are just as engaging and entertaining to children as typical "recreational math" problems, but they can be developed deeper and to more advanced levels. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.

The Golden Ratio-Gary B. Meisner 2018-10-23 The Golden Ratio examines the presence of this divine number in art and architecture throughout history, as well as its ubiquity among plants, animals, and even the cosmos. This gorgeous book—with layflat dimensions that closely approximate the golden ratio—features clear, enlightening, and entertaining commentary alongside stunning full-color illustrations by Venezuelan artist and architect Rafael Araujo. From the pyramids of Giza, to quasicrystals, to the proportions of the human face, the golden ratio has an infinite capacity to generate shapes with exquisite properties. This book invites you to take a new look at this timeless topic, with a compilation of research and information worthy of a text book, accompanied by over 200 beautiful color illustrations that transform this into the ultimate coffee table book. Author Gary Meisner shares the results of his twenty-year investigation and collaboration with thousands of people across the globe in dozens of professions and walks of life. The evidence will close the gaps of understanding related to many claims of the golden ratio's appearances and applications, and present new findings to take our knowledge further yet. Whoever you are, and whatever

you may know about this topic, you'll find something new, interesting, and informative in this book, and may find yourself challenged to see, apply, and share this unique number of mathematics and science in new ways.

The 14 Fibs of Gregory K.-Greg Pincus 2013-09-24 Failing math but great at writing, Gregory finds the poetry (and humor) in what's hard. Gregory K is the middle child in a family of mathematical geniuses. But if he claimed to love math? Well, he'd be fibbing. What he really wants most is to go to Author Camp. But to get his parents' permission he's going to have to pass his math class, which has a probability of 0. THAT much he can understand! To make matters worse, he's been playing fast and loose with the truth: "I LOVE math" he tells his parents. "I've entered a citywide math contest!" he tells his teacher. "We're going to author camp!" he tells his best friend, Kelly. And now, somehow, he's going to have to make good on his promises. Hilariously it's the "Fibonacci Sequence" -- a famous mathematical formula! -- that comes to the rescue, inspiring Gregory to create a whole new form of poem: the Fib! Maybe Fibs will save the day, and help Gregory find his way back to the truth. For every kid who equates math with torture but wants his own way to shine, here's a novel that is way more than the sum of its parts.

Fibonacci Zoo-Tom Robinson 2015-04-10 When Eli and his father visit an unusual zoo, Eli keeps track of the numbers of animals and soon sees there is a pattern that will predict how many creatures are in the next exhibit. Includes an activity and facts about number sequences.

Making the Grade-Stanley Kaplan 1997-03-01 Describes what happens in first and second grades, recommends ways for parents to participate in their children's education, and suggests appropriate activities in language arts, science, and math

It's Probably Penny- 2007-04-17 Lisa and her class learn about probability.

The Number Devil-Hans Magnus Enzensberger 2000-05-01 The international best-seller that makes mathematics a thrilling exploration. In twelve dreams, Robert, a boy who hates math, meets a Number Devil, who leads him to discover the amazing world of numbers: infinite numbers, prime numbers, Fibonacci numbers, numbers that magically appear in triangles, and numbers that expand without . As we dream with him, we are taken further and further into mathematical theory, where ideas eventually take flight, until everyone-from those who fumble over fractions to those who solve complex equations in their heads-winds up marveling at what numbers can do. Hans Magnus Enzensberger is a true polymath, the kind of superb intellectual who loves thinking and marshals all of his charm and wit to share his passions with the world. In The Number Devil, he brings together the surreal logic of Alice in Wonderland and the existential geometry of Flatland with the kind of math everyone would love, if only they had a number devil to teach it to them.

How Many Seeds in a Pumpkin? (Mr. Tiffin's Classroom Series)-Margaret McNamara 2010-09-15 Mr. Tiffin and his students explore skip counting and estimation in a fun pumpkin-themed classroom experiment! This book makes a wonderful read-aloud companion to any math or science curriculum, and it's a fun way to reinforce counting skills at home. "How many seeds are in a pumpkin?" Mr. Tiffin asks his class as they gather around the big, medium, and small pumpkins on his desk. Robert, the biggest kid, guesses that the largest one has a million seeds; Elinor, sounding like she knows what she's talking about, guesses the medium one has 500 seeds; and Anna, who likes even numbers better than odd ones, guesses that the little one has 22. Charlie, the smallest boy in the class, doesn't have a guess. Counting pumpkin seeds is messy business, but once the slimy job is done, to everyone's surprise, the smallest pumpkin has the most seeds! As Charlie happily exclaims, "Small things have a lot going on inside of them." And don't miss the newest addition to the Mr. Tiffin series, The Dinosaur Expert!

It's a Blizzard! (Journeys)-Michele Coffey 2006-08-01 single copy

The Art of Spiral Drawing-Jonathan Stephen Harris 2020-04-07 The Art of Spiral Drawing offers a fresh, modern take on everyone's favorite childhood toy from the 1960s through today, the Spirograph®. With The Art of Spiral Drawing, no complicated tools are needed, as artists of all skill levels learn to create their own spiral art using little more than paper and a pen or pencil. Written and illustrated by Jonathan Stephen Harris, the author of the popular The Art of Drawing Optical Illusions, the book opens with helpful sections on tools and materials, perspective, and shading, ensuring that beginning artists know the basics before getting started on the step-by-step projects that follow. Instructions for creating basic shapes, including a triangle, a circle, and a square, progress into more detailed patterns featuring perspective, florals, and more. Instructions are also included for creating a variety of subjects, from flowers to animals, all featuring a spiral pattern as their framework. Artists can even add color to their spiral artwork using the tips featured in the book and simple tools like colored pencils and markers. Beginning and intermediate artists, doodlers, optical illusionists, and more will love creating their own spiral and geometric art with the help of The Art of Spiral Drawing!

Meeting Standards Through Integrated Curriculum-Susan M. Drake 2004 A guide to integrating standards across the curriculum through the Know/Do/Be framework.

Math for All-Linda Schulman Dacey 2007 In this research-based book, teachers will find powerful strategies for adapting mathematical lessons, and tasks to address the wide range of abilities, interests, and learning styles of the students in their classrooms. The book contains a wealth of activities tailored to its 3–5 grade span. The authors provide numerous differentiated tasks ready for classroom implementation, as well as guidance in managing differentiated lessons, and strategies for providing and structuring choice within the classroom. This is a must-read for teachers, administrators, math coaches, special education staff, and any other educator who wishes to ensure that all children are successful learners of mathematics.

Making Math Meaningful-Nettie Fabrie 2009-06

Nature Math-Penny Dowdy 2008-09-01 Explores the Fibonacci sequence theory and how numbers occur in patterns in nature.

Mr Archimedes' Bath-Pamela Allen 2020-01-20 Every time Mr Archimedes has a bath with his friends, the water overflows. Somebody must be putting extra water in the bath. Is it Kangaroo? Or is it Goat or Wombat? Whoever it is, Mr Archimedes is going to find out.

Mathematics-Keith Devlin 1996-12-15 "The great book of nature," said Galileo, "can be read only by those who know the language in which it is written. And this language is mathematics." A richly illustrated celebration of the beauty and elegance of this ever-evolving language, Mathematics: The Science of Patterns explores the many ways mathematics helps us understand our perceptions of reality--both the physical, biological, and social worlds without, and the realm of ideas and thoughts within.

Let's Play Math-Denise Gaskins 2012-09-04

So Each May Learn-Harvey F. Silver 2000 A practical guide to meet the challenges of student diversity while promoting high achievement uses two learning models--multiple intelligences and learning styles.

The Fabulous Fibonacci Numbers-Alfred S. Posamentier The most ubiquitous, and perhaps the most intriguing, number pattern in mathematics is the Fibonacci sequence. In this simple pattern beginning with two ones, each succeeding number is the sum of the two numbers immediately preceding it (1, 1, 2, 3, 5, 8, 13, 21, ad infinitum). Far from being just a curiosity, this sequence recurs in structures found throughout nature-from the arrangement of whorls on a pinecone to the branches of certain plant stems. All of which is astounding evidence for the deep mathematical basis of the natural world.With admirable clarity, math educators Alfred Posamentier and Ingmar Lehmann take us on a fascinating tour of the many ramifications of the Fibonacci numbers. The authors begin with a brief history of their distinguished Italian discoverer, who, among other accomplishments, was responsible for popularizing the use of Arabic numerals in the West. Turning to botany, the authors demonstrate, through illustrative diagrams, the unbelievable connections between Fibonacci numbers and natural forms (pineapples, sunflowers, and daisies are just a few examples). In art, architecture, the stock market, and other areas of society and culture, they point out numerous examples of the Fibonacci sequence as well as its derivative, the golden ratio. And of course in mathematics, as the authors amply demonstrate, there are almost boundless applications in probability, number theory, geometry, algebra, and Pascal's triangle, to name a few.Accessible and appealing to even the most math-phobic individual, this fun and enlightening book allows the reader to appreciate the elegance of mathematics and its amazing applications in both natural and cultural settings.Alfred S. Posamentier (New York, NY) is dean of the School of Education and professor of mathematics education at The City College of the City University of New York. He has published over 40 books in the area of mathematics and mathematics education, including Pi: A Biography of the World's Most Mysterious Number and Math Charmers: Tantalizing Tidbits for the Mind.Ingmar Lehmann (Berlin, Germany) is on the mathematics faculty at Humboldt University in Berlin and the coauthor of Pi: A Biography of the World's Most Mysterious Number.

A People's History of the United States-Howard Zinn 1996 In this Second Edition of this radical social history of America from Columbus to the present, Howard Zinn includes substantial coverage of the Carter, Reagan and Bush years and an Afterword on the Clinton presidency. Its commitment and vigorous style mean it will be compelling reading for under-graduate and post-graduate students and scholars in American social history and American studies, as well as the general reader.

Black Lives Matter at School-Jesse Hagopian 2020-12 Black Lives Matter at School succinctly generalizes lessons from successful challenges to institutional racism that have been won through the BLM at School movement that began at one school in 2016 and has since spread to hundreds of schools across the country. This book will inspire many hundreds or thousands of more educators to join the BLM at School movement at a moment when this antiracist work in education could not be more urgent. Contributors include Opal Tometi who wrote a moving foreword, Bettina Love who has a powerful chapter on abolitionist teaching, Brian Jones who writes about centering BLM at School in the historical context of other struggles for racial justice in education and several prominent

teacher union leaders from Chicago to Los Angeles and beyond who discuss the importance of anti-racist struggle in education unions. The book includes essays, interviews, poems, resolutions, and more from educators, students and parents around the country who have been building Black Lives Matter at School on the ground.

Maths Curse-Jon Scieszka 1995 The story of a child's typical day with every action related to a mathematical problem, throwing up mathematical concepts or puzzles with the answers planted for the young reader to find with the aid of jokes and illustrations.

The Role of Laboratory Work in Improving Physics Teaching and Learning-Dagmara Sokołowska 2018-11-03 This book explores in detail the role of laboratory work in physics teaching and learning. Compelling recent research work is presented on the value of experimentation in the learning process, with description of important research-based proposals on how to achieve improvements in both teaching and learning. The book comprises a rigorously chosen selection of papers from a conference organized by the International Research Group on Physics Teaching (GIREP), an organization that promotes enhancement of the quality of physics teaching and learning at all educational levels and in all contexts. The topics covered are wide ranging. Examples include the roles of open inquiry experiments and advanced lab experiments, the value of computer modeling in physics teaching, the use of web-based interactive video activities and smartphones in the lab, the effectiveness of low-cost experiments, and assessment for learning through experimentation. The presented research-based proposals will be of interest to all who seek to improve physics teaching and learning.

Math and Art-Sasho Kalajdzievski 2011-04-28 Math and Art: An Introduction to Visual Mathematics explores the potential of mathematics to generate visually appealing objects and reveals some of the beauty of mathematics. With a CD-ROM and a 16-page full-color insert, it includes numerous illustrations, computer-generated graphics, photographs, and art reproductions to demonstrate how mathemat

Sir Cumference and the First Round Table-Cindy Neuschwander 2013-01-07 Join Sir Cumference, Lady Di of Ameter, and their son Radius for wordplay, puns, and problem solving in this geometry-packed math adventure. King Arthur was a good ruler, but now he needs a good ruler. What would you do if the neighboring kingdom were threatening war? Naturally, you'd call your strongest and bravest knights together to come up with a solution. But when your conference table causes more problems than the threat of your enemy, you need expert help. Enter Sir Cumference, his wife Lady Di of Ameter, and their son Radius. With the help of the carpenter, Geo of Metry, this sharp-minded team designs the perfect table conducive to discussing the perfect plan for peace. The first in Sir Cumference series, SIR CUMFERENCE AND THE FIRST ROUND TABLE makes math fun and accessible for everyone.

Math Art and Drawing Games for Kids-Karyn Tripp 2019-11-19 In Math Art and Drawing Games for Kids, you'll find an amazing collection of more than 40 hands-on art activities that make learning about math fun! Create fine art-inspired projects using math, including M. C. Escher's tessellations, Wassily Kandinski's abstractions, and Alexander Calder's mobiles. Make pixel art using graph paper, grids, and dot grids. Explore projects that teach symmetry with mandala drawings, stained glass rose window art, and more. Use equations, counting, addition, and multiplication to create Fibonacci and golden rectangle art. Play with geometric shapes like spirals, hexagrams, and tetrahedrons. Learn about patterns and motifs used by cultures from all over the world, including Native American porcupine quill art, African Kente prints, and labyrinths from ancient Crete. Cook up some delicious math by making cookie tangrams, waffle fractions, and bread art. Take a creative path to mastering math with Math Art and Drawing Games for Kids!

Differentiation Strategies for Mathematics-Wendy Conklin 2009-12-16 Written specifically for K-12 mathematics teachers, this resource provides the nuts and bolts of differentiation. Presented in an easy-to-implement format, this handy notebook is designed to facilitate the understanding and process of writing differentiated lessons to accommodate all readiness levels, learning styles, and interests. The lessons are based on various differentiation strategies including tiered assignments, leveled questions, concrete/representation/abstract, multiple intelligences, choices board, open-ended tasks, problem-based learning, and learning contracts. Additionally, the lessons are vertically aligned and provided at four different levels: K-2, 3-5, 6-8, and 9-12. This resource includes a variety of digital resources and is aligned College and Career Readiness Standards.

Alex's Adventures in Numberland-Alex Bellos 2011-04-04 A hugely enjoyable, brilliantly researched explanation of the basic principles of maths.

Miss Alaineus- 2000 Misunderstanding one of her teacher's weekly vocabulary words, Sage becomes embarrassed at the ensuing chaos but transforms the moment into a victory. Junior Lib Guild.

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