

Great Leaps Reading And Math Intervention Programs

Visible Learning for Mathematics, Grades K-12 What Works Best to Optimize Student Learning
Corwin Press

A hilarious reeducation in mathematics—full of joy, jokes, and stick figures—that sheds light on the countless practical and wonderful ways that math structures and shapes our world. In *Math With Bad Drawings*, Ben Orlin reveals to us what math actually is; its myriad uses, its strange symbols, and the wild leaps of logic and faith that define the usually impenetrable work of the mathematician. Truth and knowledge come in multiple forms: colorful drawings, encouraging jokes, and the stories and insights of an empathetic teacher who believes that math should belong to everyone. Orlin shows us how to think like a mathematician by teaching us a brand-new game of tic-tac-toe, how to understand an economic crisis by rolling a pair of dice, and the mathematical headache that ensues when attempting to build a spherical Death Star. Every discussion in the book is illustrated with Orlin's trademark "bad drawings," which convey his message and insights with perfect pitch and clarity. With 24 chapters covering topics from the electoral college to human genetics to the reasons not to trust statistics, *Math with Bad Drawings* is a life-changing book for the math-estranged and math-enamored alike.

A *New York Times*—bestselling author looks at mathematics education in America—when it's worthwhile, and when it's not. Why do we inflict a full menu of mathematics—algebra, geometry, trigonometry, even calculus—on all young Americans, regardless of their interests or aptitudes? While Andrew Hacker has been a professor of mathematics himself, and extols the glories of the subject, he also questions some widely held assumptions in this thought-provoking and practical-minded book. Does advanced math really broaden our minds? Is mastery of azimuths and asymptotes needed for success in most jobs? Should the entire Common Core syllabus be required of every student? Hacker worries that our nation's current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country. Here, he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers. He proposes alternatives, including teaching facility with figures, quantitative reasoning, and understanding statistics. Expanding upon the author's viral *New York Times* op-ed, *The Math Myth* is sure to spark a heated and needed national conversation—not just about mathematics but about the kind of people and society we want to be. "Hacker's accessible arguments offer plenty to think about and should serve as a clarion call to students, parents, and educators who decry the one-size-fits-all approach to schooling." —*Publishers Weekly*, starred review

Instructive guide to preparing informative and accurate assessment reports for a variety of individuals and settings
Assessment reports are central to the diagnostic process and are used to inform parents, clients, and clinicians, among others, about academic problems, personality functioning, neuropsychological strengths and weaknesses, behavioral problems, and the like. *Essentials of Assessment Report Writing* provides handy, quick-reference information, using the popular *Essentials* format, for preparing effective assessment reports. This book is designed to help busy mental health professionals quickly acquire the knowledge and skills they need to write effective

psychological assessment reports. Each concise chapter features numerous callout boxes highlighting key concepts, bulleted points, and extensive illustrative material, as well as test questions that help you gauge and reinforce your grasp of the information covered. This practical guide focuses on efficiently and effectively communicating referral and background information, appearance and behavioral observations, test results and interpretation, summary and diagnostic impressions, and treatment recommendations. The authors provide examples of both good and bad case report writing and highlight ethical issues and topics relevant to presenting feedback. *Essentials of Assessment Report Writing* is the only pocket reference illustrating how to prepare an effective assessment report.

The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the science guy) *The Magic of Math* is the math book you wish you had in school. Using a delightful assortment of examples--from ice-cream scoops and poker hands to measuring mountains and making magic squares--this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- *Physics World*

Tackle multiple math challenges and help Leap and his friends build the "fastest dune buggy ever" for the annual dune buggy race. He'll need help navigating the difficult race course. Children get to use their new math skills to help Leap win the race!

This captivating book explains some of the most fascinating ideas of mathematics to nonspecialists, focusing on non-Euclidean geometry, number theory, and fractals. Numerous illustrations. 1993 edition.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

In August 1859 Bernhard Riemann, a little-known 32-year old mathematician, presented a paper to the Berlin Academy titled: "On the Number of Prime Numbers Less Than a Given Quantity." In the middle of that paper, Riemann made an incidental remark -- a guess, a hypothesis. What he tossed out to the assembled mathematicians that day has proven to be almost cruelly compelling to countless scholars in the ensuing years. Today, after 150 years of careful research and exhaustive study, the question remains. Is the hypothesis true or false? Riemann's basic inquiry, the primary topic of his paper, concerned a straightforward but nevertheless important matter of arithmetic -- defining a precise formula to track and identify the occurrence of prime numbers. But it is that incidental remark -- the Riemann Hypothesis -- that is the truly astonishing legacy of his 1859 paper. Because Riemann was able to see beyond the pattern of the primes to discern traces of something mysterious and mathematically

elegant shrouded in the shadows — subtle variations in the distribution of those prime numbers. Brilliant for its clarity, astounding for its potential consequences, the Hypothesis took on enormous importance in mathematics. Indeed, the successful solution to this puzzle would herald a revolution in prime number theory. Proving or disproving it became the greatest challenge of the age. It has become clear that the Riemann Hypothesis, whose resolution seems to hang tantalizingly just beyond our grasp, holds the key to a variety of scientific and mathematical investigations. The making and breaking of modern codes, which depend on the properties of the prime numbers, have roots in the Hypothesis. In a series of extraordinary developments during the 1970s, it emerged that even the physics of the atomic nucleus is connected in ways not yet fully understood to this strange conundrum. Hunting down the solution to the Riemann Hypothesis has become an obsession for many — the veritable "great white whale" of mathematical research. Yet despite determined efforts by generations of mathematicians, the Riemann Hypothesis defies resolution. Alternating passages of extraordinarily lucid mathematical exposition with chapters of elegantly composed biography and history, *Prime Obsession* is a fascinating and fluent account of an epic mathematical mystery that continues to challenge and excite the world. Posited a century and a half ago, the Riemann Hypothesis is an intellectual feast for the cognoscenti and the curious alike. Not just a story of numbers and calculations, *Prime Obsession* is the engrossing tale of a relentless hunt for an elusive proof — and those who have been consumed by it.

"With almost a thousand imaginative exercises and problems, this book stimulates curiosity about numbers and their properties."

Rich tasks, collaborative work, number talks, problem-based learning, direct instruction...with so many possible approaches, how do we know which ones work the best? In *Visible Learning for Mathematics*, six acclaimed educators assert it's not about which one—it's about when—and show you how to design high-impact instruction so all students demonstrate more than a year's worth of mathematics learning for a year spent in school. That's a high bar, but with the amazing K-12 framework here, you choose the right approach at the right time, depending upon where learners are within three phases of learning: surface, deep, and transfer. This results in "visible" learning because the effect is tangible. The framework is forged out of current research in mathematics combined with John Hattie's synthesis of more than 15 years of education research involving 300 million students. Chapter by chapter, and equipped with video clips, planning tools, rubrics, and templates, you get the inside track on which instructional strategies to use at each phase of the learning cycle: Surface learning phase: When—through carefully constructed experiences—students explore new concepts and make connections to procedural skills and vocabulary that give shape to developing conceptual understandings. Deep learning phase: When—through the solving of rich high-cognitive tasks and rigorous discussion—students make connections among conceptual ideas, form mathematical generalizations, and apply and practice procedural skills with fluency. Transfer phase: When students can independently think through more complex mathematics, and can plan, investigate, and elaborate as they apply what they know to new mathematical situations. To equip students for higher-level mathematics learning, we have to be clear about where students are, where they need to go, and what it looks like when they get there. *Visible Learning for Math* brings about powerful, precision teaching for K-12 through intentionally designed guided, collaborative, and independent learning.

The sequel to *Pyramid Response to Intervention* advocates that a successful RTI model begins by asking the right questions to create a fundamentally effective learning environment for every student. RTI is not a series of implementation steps, but rather a way of thinking. Understand why bureaucratic, paperwork-heavy, compliance-oriented, test-score-driven approaches fail. Then learn how to create a focused RTI model that works.

In this book the Vedic techniques are applied to ordinary school mathematics for eleven and

twelve years-old. the arithmetic introduced in books I and II is extended. The book also deals with the initial stages of solving equations, coordinate geometry, approximations, indices, parallels, triangles, ratio and proportion as well as other topics. Once a basic grounding has been established with the Vedic methods the next stage is the beginning of discrimination. A problem is set and, armed with several techniques, the student must choose the easiest or most relevant for achieving the solution. This book deals with some of the steps required for this training.

Tutoring today is a \$4 billion industry (yes—billion) with companies like Sylvan Learning Center and Kaplan Tutoring cashing in. So, what are parents of today's overextended students to do? Top professional tutor Marina Koestler Ruben empowers you to take a do-it-yourself approach to your child's after-school enrichment. As a parent-tutor, you will learn how provide holistic academic support for your children and create an intellectual environment in the home—strengthening your relationship and improving parent-child communication in the process. Ruben's accessible guide shows you how to balance big-picture curiosity with the academic nitty-gritties of homework assignments, organization, and electronic resources. Building on her proven "Six-Step Session" format, Ruben shares the secrets to tutoring children in any subject from kindergarten through high school—all with a warm, entertaining tone that will inspire you to inspire them.

A story about how the very messy French philosopher, René Descartes, invented an ingenious way to keep track of his possessions.

A lively story, vivid artwork, and fifty talented lizards will help young readers master the skill of counting by fives and tens as groups of late lizards show up just before the curtain goes up on their live performance. Simultaneous.

Although much has changed in schools in recent years, the power of differentiated instruction remains the same—and the need for it has only increased. Today's classroom is more diverse, more inclusive, and more plugged into technology than ever before. And it's led by teachers under enormous pressure to help decidedly unstandardized students meet an expanding set of rigorous, standardized learning targets. In this updated second edition of her best-selling classic work, Carol Ann Tomlinson offers these teachers a powerful and practical way to meet a challenge that is both very modern and completely timeless: how to divide their time, resources, and efforts to effectively instruct so many students of various backgrounds, readiness and skill levels, and interests. With a perspective informed by advances in research and deepened by more than 15 years of implementation feedback in all types of schools, Tomlinson explains the theoretical basis of differentiated instruction, explores the variables of curriculum and learning environment, shares dozens of instructional strategies, and then goes inside elementary and secondary classrooms in nearly all subject areas to illustrate how real teachers are applying differentiation principles and strategies to respond to the needs of all learners. This book's insightful guidance on what to differentiate, how to differentiate, and why lays the groundwork for bringing differentiated instruction into your own classroom or refining the work you already do to help each of your wonderfully unique learners move toward greater knowledge, more advanced skills, and expanded understanding. Today more than ever, *The Differentiated Classroom* is a must-have staple for every teacher's shelf and every school's professional development collection.

This bestselling work provides practitioners with a complete guide to implementing response to intervention (RTI) in schools. The authors are leading experts who explain the main components of RTI--high-quality instruction, frequent assessment, and data-based decision making--and show how to use it to foster positive academic and behavioral outcomes for all students. Implementation procedures are described in step-by-step detail. In a large-size format with lay-flat binding to facilitate photocopying, the book includes reproducible planning and implementation worksheets. The companion website features an accompanying PowerPoint presentation for use in RTI training. This book is in The Guilford Practical Intervention in the Schools Series, edited by T. Chris Riley-Tillman. New to this Edition *Includes extensive new research that reflects the increasing adoption of RTI nationwide. *Expanded to include behavioral interventions. *Chapter on effective instructional practices for general education. *Chapter on implementation at the whole-school and district levels. *Chapter featuring multiple intervention case studies. See also *Assessment for Intervention, Second Edition*, which details a wide range of assessment procedures ideal for implementation in an RTI framework.

A Programmer's Introduction to Mathematics uses your familiarity with ideas from programming and software to teach mathematics. You'll learn about the central objects and theorems of mathematics, including graphs, calculus, linear algebra, eigenvalues, optimization, and more. You'll also be immersed in the often unspoken cultural attitudes of mathematics, learning both how to read and write proofs while understanding why mathematics is the way it is. Between each technical chapter is an essay describing a different aspect of mathematical culture, and discussions of the insights and meta-insights that constitute mathematical intuition. As you learn, we'll use new mathematical ideas to create wondrous programs, from cryptographic schemes to neural networks to hyperbolic tessellations. Each chapter also contains a set of exercises that have you actively explore mathematical topics on your own. In short, this book will teach you to engage with mathematics. *A Programmer's Introduction to Mathematics* is written by Jeremy Kun, who has been writing about math and programming for 10 years on his blog "Math Intersect Programming." As of 2020, he works in datacenter optimization at Google. The second edition includes revisions to most chapters, some reorganized content and rewritten proofs, and the addition of three appendices.

In 2010, French mathematician Cédric Villani received the Fields Medal, the most coveted prize in mathematics, in recognition of a proof which he devised with his close collaborator Clément Mouhot to explain one of the most surprising theories in classical physics. *Birth of a Theorem* is Villani's own account of the years leading up to the award. It invites readers inside the mind of a great mathematician as he wrestles with the most important work of his career. But you don't have to understand nonlinear Landau damping to love *Birth of a Theorem*. It doesn't simplify or overexplain; rather, it invites readers into collaboration.

Villani's diaries, emails, and musings enmesh you in the process of discovery. You join him in unproductive lulls and late-night breakthroughs. You're privy to the dining-hall conversations at the world's greatest research institutions. Villani shares his favorite songs, his love of manga, and the imaginative stories he tells his children. In mathematics, as in any creative work, it is the thinker's whole life that propels discovery—and with *Birth of a Theorem*, Cédric Villani welcomes you into his.

Shortlisted for the 2021 International Booker Prize *A fictional examination of the lives of real-life scientists and thinkers whose discoveries resulted in moral consequences beyond their imagining. When We Cease to Understand the World* is a book about the complicated links between scientific and mathematical discovery, madness, and destruction. Fritz Haber, Alexander Grothendieck, Werner Heisenberg, Erwin Schrödinger—these are some of luminaries into whose troubled lives Benjamín Labatut thrusts the reader, showing us how they grappled with the most profound questions of existence. They have strokes of unparalleled genius, alienate friends and lovers, descend into isolation and insanity. Some of their discoveries reshape human life for the better; others pave the way to chaos and unimaginable suffering. The lines are never clear. At a breakneck pace and with a wealth of disturbing detail, Labatut uses the imaginative resources of fiction to tell the stories of the scientists and mathematicians who expanded our notions of the possible.

Why do even well-educated people understand so little about mathematics? And what are the costs of our innumeracy? John Allen Paulos, in his celebrated bestseller first published in 1988, argues that our inability to deal rationally with very large numbers and the probabilities associated with them results in misinformed governmental policies, confused personal decisions, and an increased susceptibility to pseudoscience of all kinds. Innumeracy lets us know what we're missing, and how we can do something about it. Sprinkling his discussion of numbers and probabilities with quirky stories and anecdotes, Paulos ranges freely over many aspects of modern life, from contested elections to sports stats, from stock scams and newspaper psychics to diet and medical claims, sex discrimination, insurance, lotteries, and drug testing. Readers of *Innumeracy* will be rewarded with scores of astonishing facts, a fistful of powerful ideas, and, most important, a clearer, more quantitative way of looking at their world.

Engage your child in active learning with *First Grade Essentials*. This workbook covers these skills: -vocabulary -consonant and vowel sounds -addition -subtraction -counting money -telling time Packed with fun practice pages, this workbook helps first graders develop skills for success in today's classroom. Help your child learn how to apply classroom learning to everyday life with *First Grade Essentials*. This workbook encourages children to have fun while learning key skills in these areas: -basic skills -reading -math Filled with grade-appropriate activities and practice, *First Grade Essentials* offers opportunities for active

learning and supports the skills children need to think critically and communicate effectively. By focusing on important school skills, the Essentials series for prekindergarten to second grades helps build a strong foundation for your child's success, this year and the next. Each practice page features a "One Step Further" activity to help your child apply the skill to real-world experiences. The books also include fun puzzles and mazes in a bonus "Games and Activities" section. Essentials is a complete resource to help your child develop twenty-first century skills!

How math helps us solve the universe's deepest mysteries One of the great insights of science is that the universe has an underlying order. The supreme goal of physicists is to understand this order through laws that describe the behavior of the most basic particles and the forces between them. For centuries, we have searched for these laws by studying the results of experiments. Since the 1970s, however, experiments at the world's most powerful atom-smashers have offered few new clues. So some of the world's leading physicists have looked to a different source of insight: modern mathematics. These physicists are sometimes accused of doing 'fairy-tale physics', unrelated to the real world. But in *The Universe Speaks in Numbers*, award-winning science writer and biographer Farmelo argues that the physics they are doing is based squarely on the well-established principles of quantum theory and relativity, and part of a tradition dating back to Isaac Newton. With unprecedented access to some of the world's greatest scientific minds, Farmelo offers a vivid, behind-the-scenes account of the blossoming relationship between mathematics and physics and the research that could revolutionize our understanding of reality. A masterful account of some of the most groundbreaking ideas in physics in the past four decades. *The Universe Speaks in Numbers* is essential reading for anyone interested in the quest to discover the fundamental laws of nature.

Provides basic information for parents and professionals about dyslexia. The book has a strong US focus.

Reading fluency has been identified as a key component of proficient reading. Research has consistently demonstrated significant and substantial correlations between reading fluency and overall reading achievement. Despite the great potential for fluency to have a significant outcome on students' reading achievement, it continues to be not well understood by teachers, school administrators and policy makers. The chapters in this volume examine reading fluency from a variety of perspectives. The initial chapter sketches the history of fluency as a literacy instruction component. Following chapters examine recent studies and approaches to reading fluency, followed by chapters that explore actual fluency instruction models and the impact of fluency instruction.

Assessment of reading fluency is critical for monitoring progress and identifying students in need of intervention. Two articles on assessment, one focused on word recognition and the other on prosody, expand our understanding of fluency measurement. Finally, a study from Turkey explores the relationship of various

reading competencies, including fluency, in an integrated model of reading. Our hope for this volume is that it may spark a renewed interest in research into reading fluency and fluency instruction and move toward making fluency instruction an even more integral part of all literacy instruction.

The theory of random graphs began in the late 1950s in several papers by Erdos and Renyi. In the late twentieth century, the notion of six degrees of separation, meaning that any two people on the planet can be connected by a short chain of people who know each other, inspired Strogatz and Watts to define the small world random graph in which each site is connected to k close neighbors, but also has long-range connections. At a similar time, it was observed in human social and sexual networks and on the Internet that the number of neighbors of an individual or computer has a power law distribution. This inspired Barabasi and Albert to define the preferential attachment model, which has these properties. These two papers have led to an explosion of research. The purpose of this book is to use a wide variety of mathematical argument to obtain insights into the properties of these graphs. A unique feature is the interest in the dynamics of process taking place on the graph in addition to their geometric properties, such as connectedness and diameter.

Spend the day with Gavin the Gator as he travels through his swamp looking for tasty numbers to eat. Swimming through the swamp, He's a skilled navigator. And only makes a meal Of the numbers that are greater. Children will enjoy learning about greater than and less than equations as they help decide which number Gavin will eat. Interaction is encouraged throughout the story. Enrichment activities are included at the end of the book. The charming illustrations, along with the rhythm and rhyme of the text, will draw children into the story as they learn this important math skill.

A one-of-a-kind resource for evaluators using the Woodcock-Johnson® III The Woodcock-Johnson® III is one of the most widely used instruments for assessing both cognitive abilities and achievement in children and adolescents. Woodcock-Johnson® III: Reports, Recommendations, and Strategies is the only reference to provide valuable guidelines for preparing useful recommendations and writing effective, descriptive psychological and educational reports based on WJ III® scores, tasks analysis, and error patterns. Featuring the most up-to-date information available on the WJ III®, this essential resource offers an overview of the WJ III® scores and interpretive information, along with a review of the clusters, and tests. Numerous examples of diagnostic reports that depict a variety of common student learning problems are included, illustrating applications of the WJ III® in both educational and clinical settings. Drs. Nancy Mather and Lynne Jaffe also provide a wide variety of educational recommendations, along with summaries of proven methods and techniques for implementing successful examiner recommendations, which can easily be attached to a report. WJ III® examiners will find this volume invaluable in preparing psychoeducational reports about children's abilities, and teachers and educational therapists will find it

helpful in converting recommendations into measurable goals and objectives for monitoring students' progress.

Woodcock-Johnson® IV: Recommendations and Strategies is a guide to understanding and working with the new edition of the W-J®-IV battery, one of the most highly regarded instruments for measuring cognitive ability, oral language skill, and achievement. Written specifically for educators, school psychologists, and clinical psychology professionals, this guide provides a wide variety of educational resources, along with summaries of proven methods and techniques for implementing examiner recommendations. In addition to a clear, concise overview of the use and interpretation of the W-J®-IV, readers gain access to customizable summaries of methods and techniques that are frequently included in the recommendations or diagnostic sections of reports. These summaries may be attached to a report so that teachers, educational therapists, or parents are encouraged to implement the recommended procedures. Woodcock-Johnson® IV: Recommendations and Strategies provide practical, step-by-step instructions for developing evidence-based and RTI-based educational recommendations and reports. Inside, you'll find: Educational recommendations for language, reading, mathematics, memory, attention, and behavior management Strategies for creating measurable goals and objectives based on W-J®-IV results Suggestions for discussing score summaries with parents and family members Customizable technique summaries for use in reporting and record-keeping In addition to comprehensive explanations and recommendations, the CD included with this book provides customizable spreadsheets, worksheets, and report-writing templates that make it easy to work with the new W-J®-IV right away. Woodcock-Johnson® IV: Recommendations and Strategies is a must-have resource for psychologists, educators, clinicians, and diagnosticians who work with people from age two and up.

Includes online access to new, customizable WJ IV score tables, graphs, and forms for clinicians Woodcock-Johnson IV: Reports, Recommendations, and Strategies offers psychologists, clinicians, and educators an essential resource for preparing and writing psychological and educational reports after administering the Woodcock-Johnson IV. Written by Drs. Nancy Mather and Lynne E. Jaffe, this text enhances comprehension and use of this instrument and its many interpretive features. This book offers helpful information for understanding and using the WJ IV scores, provides tips to facilitate interpretation of test results, and includes sample diagnostic reports of students with various educational needs from kindergarten to the postsecondary level. The book also provides a wide variety of recommendations for cognitive abilities; oral language; and the achievement areas of reading, written language, and mathematics. It also provides guidelines for evaluators and recommendations focused on special populations, such as sensory impairments, autism, English Language Learners, and gifted and twice exceptional students, as well as recommendations for the use of assistive technology. The final section provides

descriptions of the academic and behavioral strategies mentioned in the reports and recommendations. The unique access code included with each book allows access to downloadable, easy-to-customize score tables, graphs, and forms. This essential guide Facilitates the use and interpretation of the WJ IV Tests of Cognitive Abilities, Tests of Oral Language, and Tests of Achievement Explains scores and various interpretive features Offers a variety of types of diagnostic reports Provides a wide variety of educational recommendations and evidence-based strategies

Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2008! Leonhard Euler was one of the most prolific mathematicians that have ever lived. This book examines the huge scope of mathematical areas explored and developed by Euler, which includes number theory, combinatorics, geometry, complex variables and many more. The information known to Euler over 300 years ago is discussed, and many of his advances are reconstructed. Readers will be left in no doubt about the brilliance and pervasive influence of Euler's work.

Mary Golda Ross designed classified airplanes and spacecraft as Lockheed Aircraft Corporation's first female engineer. Find out how her passion for math and the Cherokee values she was raised with shaped her life and work. Cherokee author Traci Sorell and Métis illustrator Natasha Donovan trace Ross's journey from being the only girl in a high school math class to becoming a teacher to pursuing an engineering degree, joining the top-secret Skunk Works division of Lockheed, and being a mentor for Native Americans and young women interested in engineering. In addition, the narrative highlights Cherokee values including education, working cooperatively, remaining humble, and helping ensure equal opportunity and education for all. "A stellar addition to the genre that will launch careers and inspire for generations, it deserves space alongside stories of other world leaders and innovators."—starred, Kirkus Reviews

Donalyn Miller says she has yet to meet a child she couldn't turn into a reader. No matter how far behind Miller's students might be when they reach her 6th grade classroom, they end up reading an average of 40 to 50 books a year. Miller's unconventional approach dispenses with drills and worksheets that make reading a chore. Instead, she helps students navigate the world of literature and gives them time to read books they pick out themselves. Her love of books and teaching is both infectious and inspiring. The book includes a dynamite list of recommended "kid lit" that helps parents and teachers find the books that students really like to read.

This book provides a comprehensive overview of fluency as a construct and its assessment in the context of curriculum-based measurement (CBM). Comparing perspectives from language acquisition, reading, and mathematics, the book parses the vagueness and complexities surrounding fluency concepts and their resulting impact on testing, intervention, and students' educational development. Applications of this knowledge in screening and testing, ideas for creating more targeted measures, and advanced methods for studying fluency data demonstrate the overall salience of fluency within CBM. Throughout, contributors argue for greater specificity and nuance in isolating skills to be measured and improved, and for terminology that reflects those educational benchmarks. Included in the coverage: Indicators of fluent writing in beginning writers. Fluency in language acquisition, reading, and mathematics. Foundations of fluency-based assessments in behavioral and psychometric paradigms. Using response time and accuracy data to inform the measurement of fluency. Using individual

growth curves to model reading fluency. Latent class analysis for reading fluency research. The Fluency Construct: Curriculum-Based Measurement Concepts and Applications is an essential resource for researchers, graduate students, and professionals in clinical child and school psychology, language and literature, applied linguistics, special education, neuropsychology, and social work.

In 2013, a little known mathematician in his late 50s stunned the mathematical community with a breakthrough on an age-old problem about prime numbers. Since then, there has been further dramatic progress on the problem, thanks to the efforts of a large-scale online collaborative effort of a type that would have been unthinkable in mathematics a couple of decades ago, and the insight and creativity of a young mathematician at the start of his career. Prime numbers have intrigued, inspired and infuriated mathematicians for millennia. Every school student studies prime numbers and can appreciate their beauty, and yet mathematicians' difficulty with answering some seemingly simple questions about them reveals the depth and subtlety of prime numbers. Vicky Neale charts the recent progress towards proving the famous Twin Primes Conjecture, and the very different ways in which the breakthroughs have been made: a solo mathematician working in isolation and obscurity, and a large collaboration that is more public than any previous collaborative effort in mathematics and that reveals much about how mathematicians go about their work. Interleaved with this story are highlights from a significantly older tale, going back two thousand years and more, of mathematicians' efforts to comprehend the beauty and unlock the mysteries of the prime numbers.

A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book *A Mind for Numbers* *A Mind for Numbers* and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains:

- Why sometimes letting your mind wander is an important part of the learning process
- How to avoid "rut think" in order to think outside the box
- Why having a poor memory can be a good thing
- The value of metaphors in developing understanding
- A simple, yet powerful, way to stop procrastinating

Filled with illustrations, application questions, and exercises, this book makes learning easy and fun. Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

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