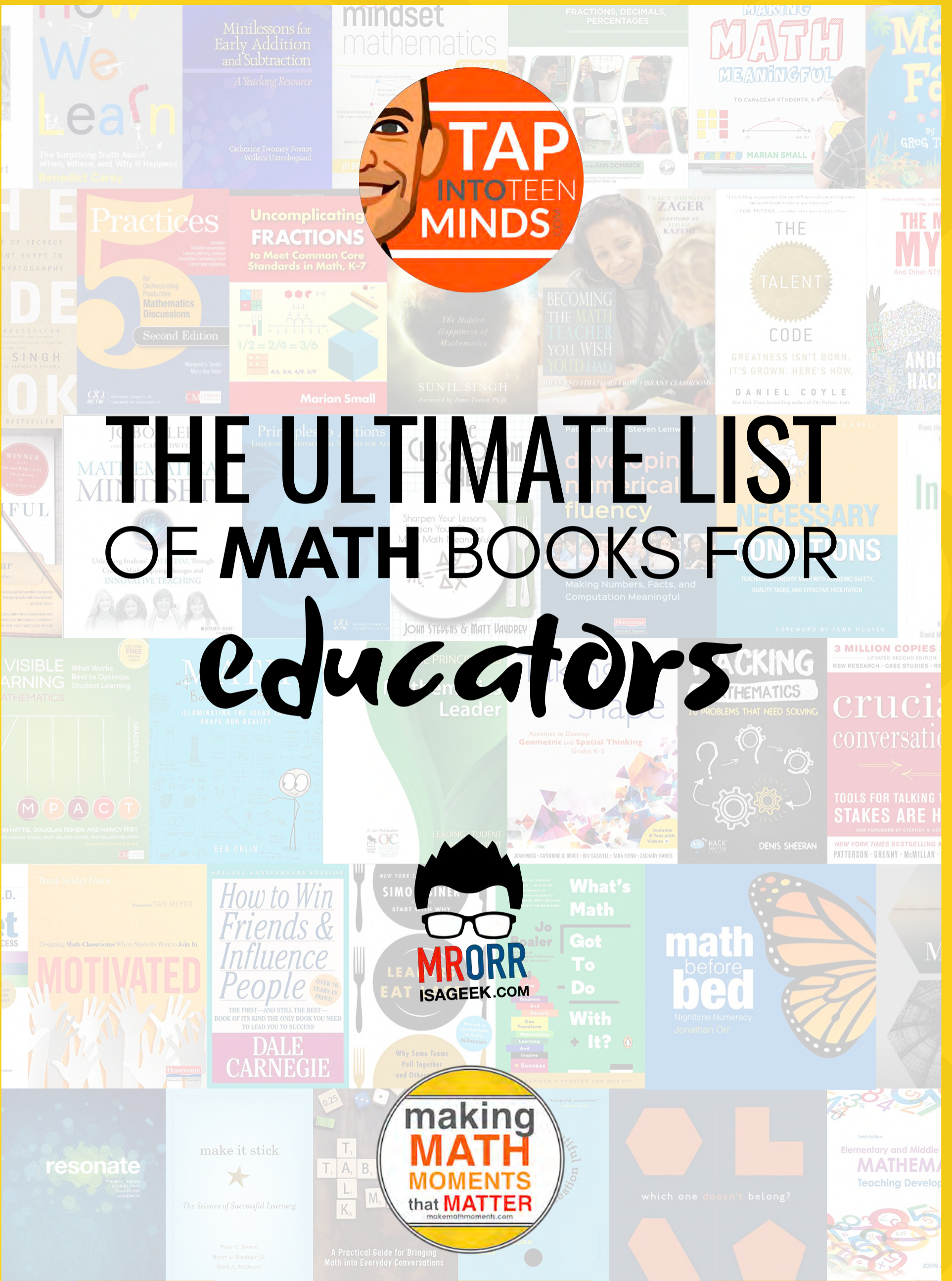
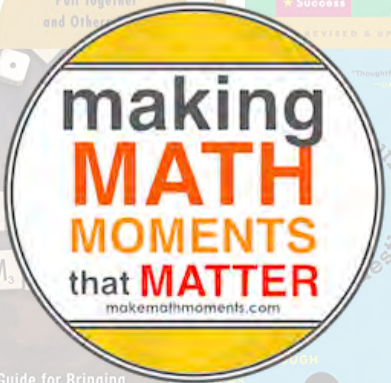




# THE ULTIMATE LIST OF MATH BOOKS FOR Educators



**MRORR**  
ISAGEEK.COM

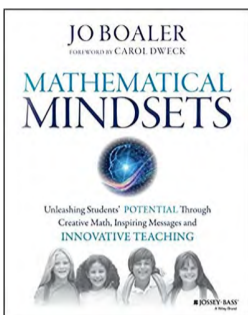




# GREAT MATH READS TO DISCOVER, REFLECT, AND GROW

This guide is the Ultimate List Of Math Books For Teachers because it is the list of many books I've read to challenge my thinking around mathematics education and education in general, to build my own conceptual understanding around big ideas I was never taught, and to improve my instructional practice from day to day in the classroom.

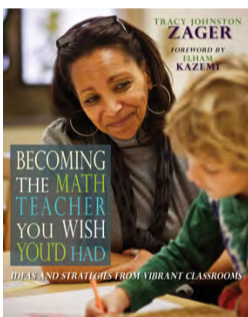
## MY TOP 5 MUST READ MATH BOOKS



### Mathematical Mindsets

Take a journey with Jo Boaler through the muddy waters of the misconceptions in and around mathematics education. From dispelling the “math myth” of ability, learning how to change our fixed mindsets to growth mindset, and how to teach mathematics to reach every student, this book is a must read for those who have always loved the subject as well as those who have always feared it.

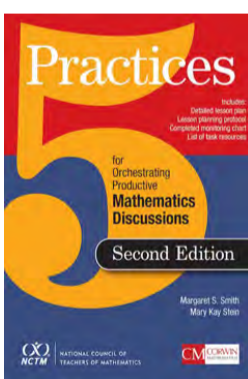
[LEARN MORE.](#)



### Becoming The Math Teacher You Wish You'd Had

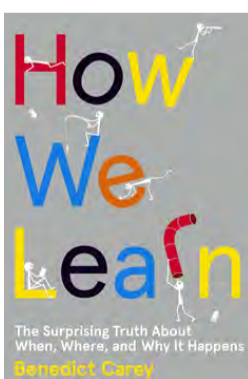
A nice follow-up to Mathematical Mindsets, Tracy Zager's book addresses the common beliefs and misconceptions many children and adults have developed based on their own negative experiences from math class. She goes on to help the reader better understand what mathematics really is by including transcripts of classroom discussions where her prompts help students describe what mathematicians actually do, then useful links to online resources are shared so that teachers can help expose the beauty in mathematics with their students.

[LEARN MORE.](#)



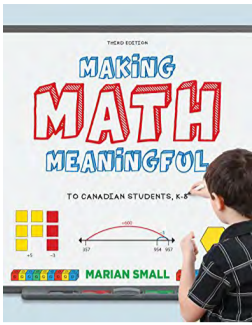
### 5 Practices For Orchestrating Productive Mathematics Discussions

I wish I had found this book when I was learning early on about the 3-part math lesson. After years of tinkering and modifying how I was planning, delivering, and reflecting on my lessons, I eventually came up with what I called a 4-part math lesson. This book so clearly articulates what I was trying to do in my classroom for approximately 10 years. Save yourself 10 years worth of experimenting by reading this book over a single weekend. [LEARN MORE.](#)



### How We Learn

One of my favourite education reads because this book helped me to better understand how humans (not just children) learn new information. This book is what helped launch me into thinking differently about how I create my long range lesson plans in my math class and got me reflecting about how to break down my “siloes” math units of study and spiral math content throughout the school year. [LEARN MORE.](#)

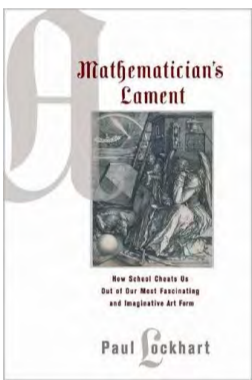


## Making Math Meaningful

Despite the subtitle suggests the book is targeted for Canadian Students from Kindergarten through Grade 8, the reality is that this book unpacks so much crucial mathematical understanding that is required for students to learn mathematics in elementary and middle school regardless of where they are located. This book does a great job striking a balance between philosophical, pedagogical, and content knowledge for mathematics teachers. [LEARN MORE.](#)

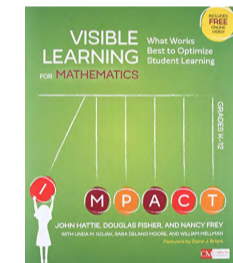
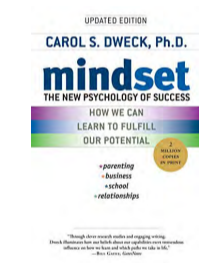
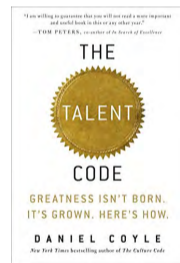
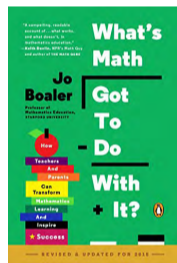
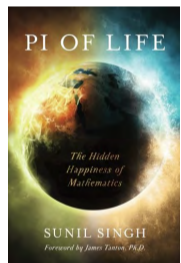
## MATHEMATICS EDUCATION: PHILOSOPHY & PEDAGOGY

The following are great math books that have helped shift my thinking about mathematics in general and more specifically, how mathematics should be taught in our classrooms.



## A Mathematician's Lament

It can be really difficult for educators like us to think about teaching mathematics outside of the experiences we had ourselves. Let's face it: the traditional math classroom "worked" for us. However, in this great read, Mathematician Paul Lockhart helps us better understand why we can't keep teaching mathematics the way we've always done it before. [LEARN MORE.](#)



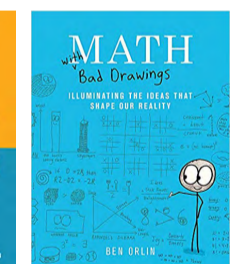
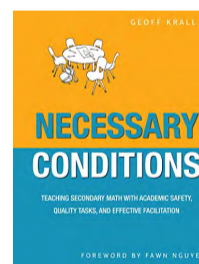
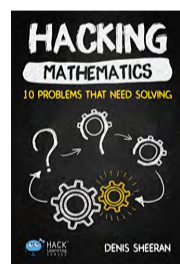
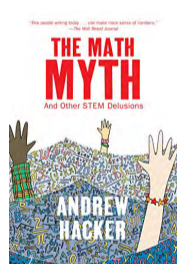
**Pi Of Life - [READ](#)**

**What's Math Got To Do With It? - [READ](#)**

**The Talent Code - [READ](#)**

**Mindset - [READ](#)**

**Visible Learning For Mathematics - [READ](#)**



**The Classroom Chef - [READ](#)**

**The Math Myth - [READ](#)**

**Hacking Mathematics - [READ](#)**

**Necessary Conditions - [READ](#)**

**Math With Bad Drawings - [READ](#)**

## MATHEMATICS LEADERSHIP

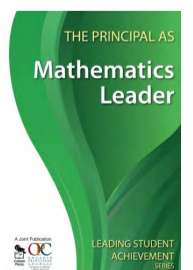


## Principles to Actions

This book is a great read for all stakeholders in mathematics education, but particularly for administrators including directors, superintendents, principals, and curriculum chair/department heads. [LEARN MORE.](#)

## The Principal As Mathematics Leader

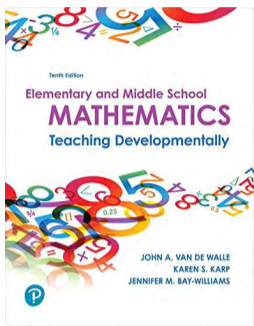
This is a great math read for leaders in education particularly principals who are looking to make positive change in mathematics instructional practice in their school. [LEARN MORE.](#)





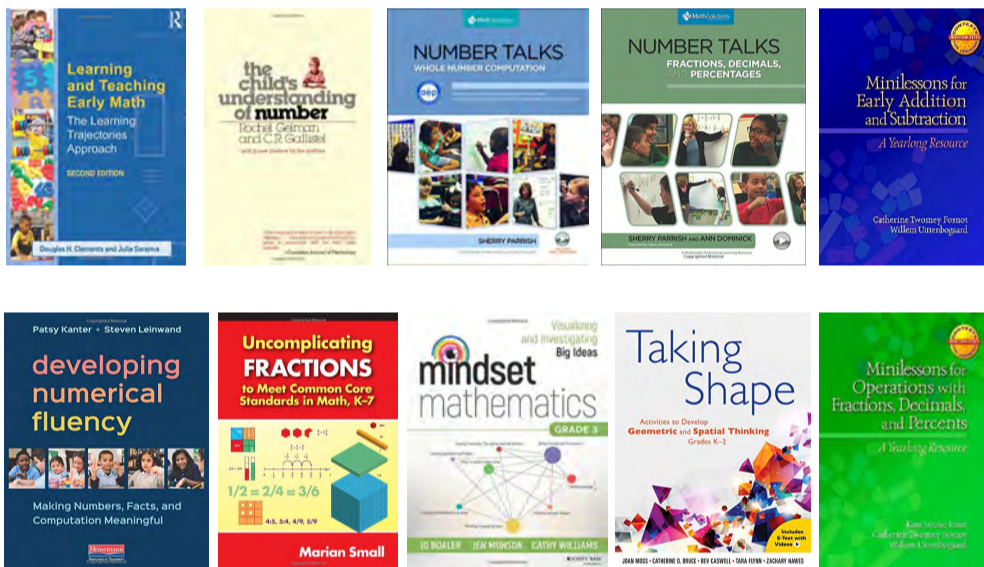
# DEVELOPING TEACHER MATHEMATICS CONTENT KNOWLEDGE

The next section of math books have helped me along my journey to fuel sense making in my students. Despite always believing that I had been helping my students make sense of the math I was teaching, many of these reads helped me to realize that I myself didn't have a strong enough conceptual understanding in order to meet students where they were along their developmental mathematics learning journey.



## Elementary And Middle School Math

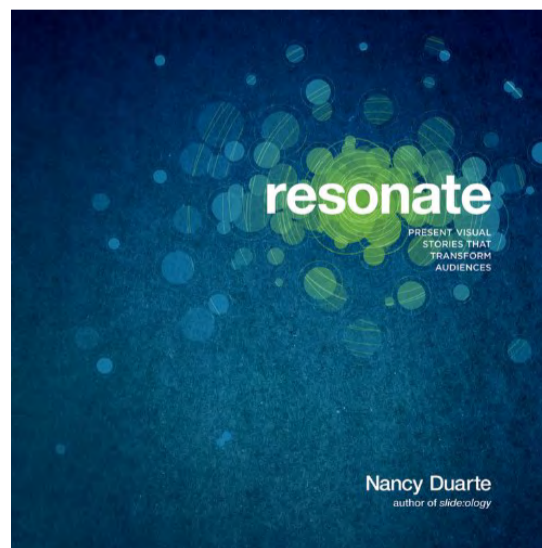
Despite the title of the book focusing in on elementary and middle school mathematics, this is a great book for all mathematics educators from Kindergarten through Grade 12. Had I better understood how big ideas in mathematics develop from a young age into the high school grades, I could have been a much better high school math teacher. [LEARN MORE.](#)



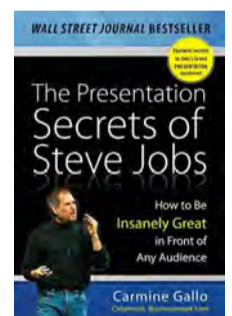
- Learning and Teaching Early Math - [READ](#)**
- The Child's Understanding of Number - [READ](#)**
- Number Talks: Whole Number - [READ](#)**
- Number Talks: Fractions, Decimals, Percents - [READ](#)**
- Minilessons: Early Addition & Subtraction - [READ](#)**
- Developing Numerical Fluency - [READ](#)**
- Uncomplicating Fractions - [READ](#)**
- Mindset Mathematics, Grade 3 - [READ](#)**
- Taking Shape - [READ](#)**
- Minilessons: Fractions, Decimals, Percentages - [READ](#)**

# SPEAKING, PRESENTING, AND STORYTELLING

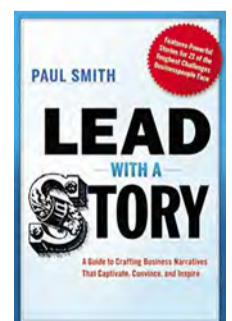
Although this next section does not include math books specifically, I have found these reads amazing to help me sharpen my skills as a teacher by learning how to become a better speaker and presenter. These are books that I only became interested in once I started keynoting and presenting at conferences on a regular basis, but would have made me a much more effective teacher. When you read these books and others that fit in this category, you'll quickly realize that teaching IS presenting and without these skills, it is difficult to ensure math moments stick for our students.



[READ](#)



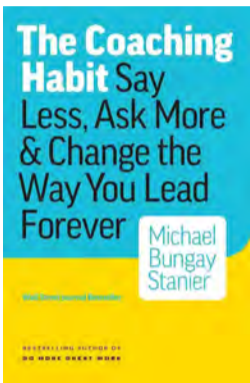
[READ](#)



[READ](#)

# COACHING, MENTORING, AND COUNSELLING

After teaching for years in the high school math classroom, I eventually landed in a role where I split my timetable to teach grade 9 students in the morning and act as a math instructional coach in the afternoon. The reason I say “act” as an instructional coach is because I really had no idea what I was doing. I eventually turned to books on coaching, mentoring, and counselling to help me. What I realized is that many of the skills learned through these books would have been extremely helpful during my time teaching students as well. Here’s some of my favourites.



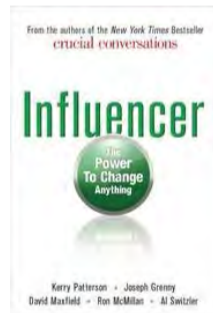
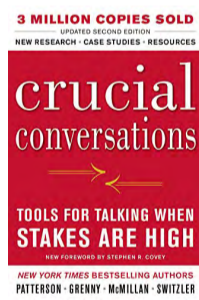
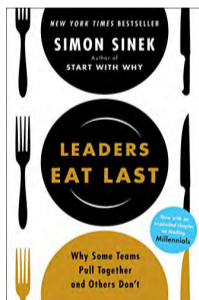
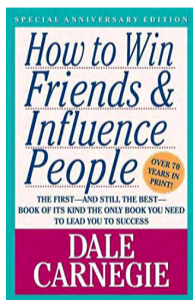
## The Coaching Habit

This book is one of my most recent reads and I’m saddened that I had not found it sooner. Michael Bungay Stanier breaks down the role of coaching into really easy to understand and actionable pieces. Not only do Jon Orr and I reference this book in our [online workshop](#), but we also use many of the “coaching questions” offered up in this book when we engage in [Math Mentoring Moment podcast](#) conversations. [READ](#).



## Mentoring For All

If you are an educator who has had the pleasure to have been influenced by the mentoring work of Jim Strachan, I’m sure you’d agree that you can’t help but look at the world differently. Dedicating his life to learning about the complexities of educational mentorship, Jim is eager to share his wisdom with all educators far and wide. This commitment is so strong that he offers all of his work openly for others to benefit from. Be sure to read and engage in his digital resources including eBooks, Mini-Modules, and more. [READ](#).



[How to Win Friends & Influence People](#) - [READ](#)

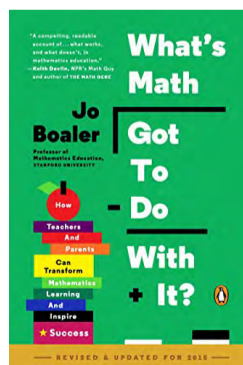
[Leaders Eat Last](#) - [READ](#)

[Crucial Conversations](#) - [READ](#)

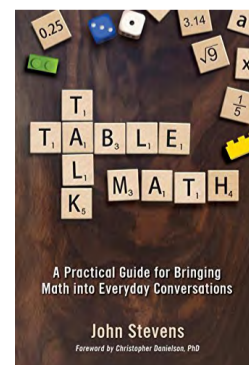
[Influencer](#) - [READ](#)

# MATH BOOKS FOR PARENTS AND GUARDIANS

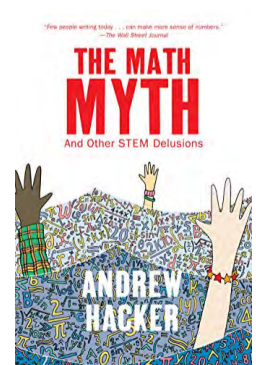
Here are some reads that can help better understand why we are moving away from some traditional practices, how they can help their kids at home, and some mathematical myths that are out there.



[READ](#)



[READ](#)

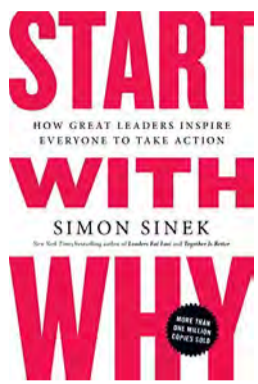


[READ](#)



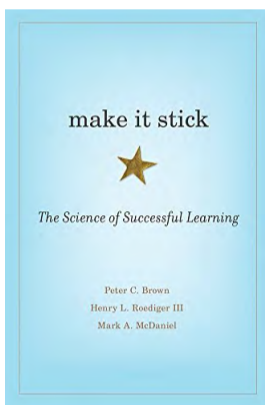
# HOW LEARNING WORKS: INTELLIGENCE, TALENT, COGNITIVE SCIENCE, AND MORE

Regardless of how much mathematics expertise we build, it is difficult to share what we know with our students unless we understand how learning happens. In this next section, I've selected some of the many books I've read to get a better understanding of how I should approach teaching students and even the adults I work with in workshops, mentoring sessions, and more.

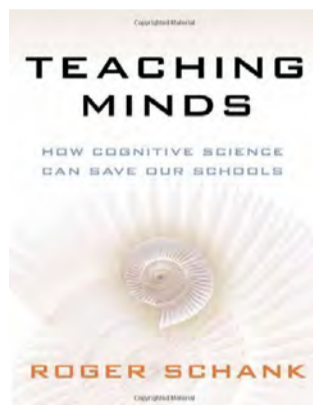


## Start With Why

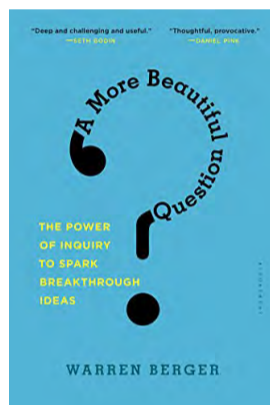
This is a great read that is really intended for leaders in business like CEOs and managers of large companies, however the messaging is easily transferrable to whatever your role in education. Whether you're a superintendent, principal, or classroom teacher, the big message in this book is about motivating others to "wake up inspired, feel safe at work and return home fulfilled at the end of the day". Swap out the word "work" for "school" and you're in business. **READ.**



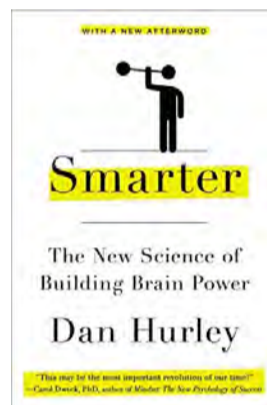
**READ**



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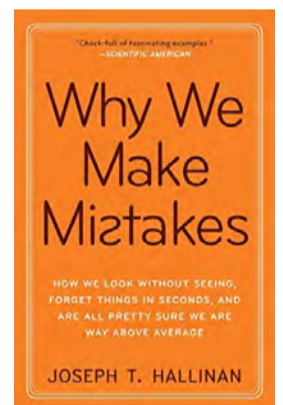
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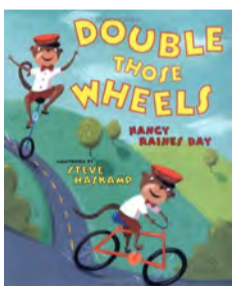


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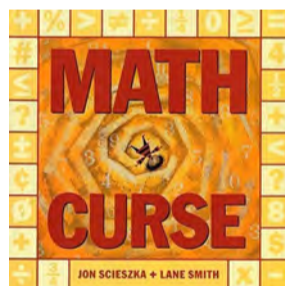
## GREAT MATH BOOKS FOR ELEMENTARY STUDENTS



**READ**



**READ**



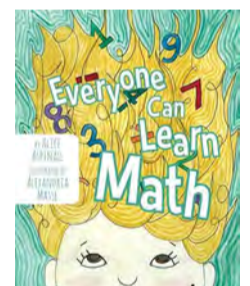
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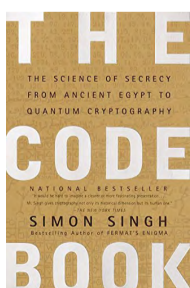


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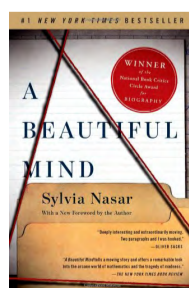


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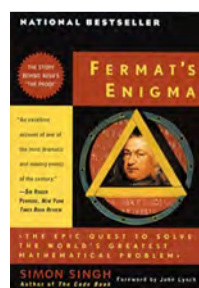
## GREAT MATH BOOKS FOR HIGH SCHOOL STUDENTS



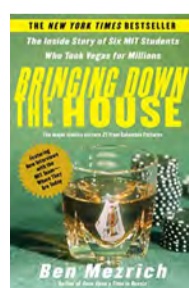
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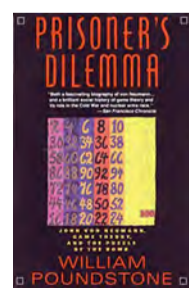
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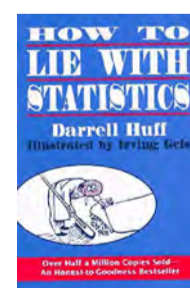
**READ**



**READ**



**READ**



**READ**



Wow, that was a lot of books to build math content knowledge, pedagogical practices, sharpen your mentoring skills, and even add a few more titles to the math reads you share with parents and students to inspire a productive disposition towards mathematics. Why stop there?

## Listen To The Making Math Moments That Matter Podcast



[MAKEMATHMOMENTS.COM/PODCAST](https://makemathmoments.com/podcast)

## Watch Our Free 4-Part Video Lesson Series



DIVE INTO THE LEARNING HERE:



[MAKEMATHMOMENTS.COM/LESSON1](https://makemathmoments.com/lesson1)

