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In the latest episode of the EdFix Podcast, Ball complains that math is a "harbor for whiteness" and "the very nature of the knowledge and who's produced it, and what has counted as mathematics is ...

The Folly of 'Woke' Math
Irving L. Branch Elementary School and Edwards Air Force Base, California, announced the launch of an afterschool Math Tutoring Club, Sept. 13. Students, at all grade levels, are able to receive ...

Edwards AFB Math Tutoring Club kicks off; volunteers needed

As early data comes out showing Missouri kids may be struggling more with mathematics, the leader of St. Joseph's board of education argued the Department of Elementary and Secondary Education ...

Student math scores slide statewide

The problem is that most math texts give you a very dry description ... Wikipedia does a little better: [A]n algebraic object that describes a linear mapping from one set of algebraic objects ...

Tensors Explained

The last Milestones scores reported low reading levels for Augusta's students. What factors into literacy and how can parents help their child read?

Learning to read is tough, and many of Augusta's students are far behind

The total weight of the flour is now 120 grams (but in baker's math that weight remains represented ... But just like anything that's worth learning, knowing how to read baker's percentages ...

Learn Baker's Percentages and Make Bread Like a Pro

After studying in the UK for a year, an Indian student chose to learn by herself instead of being taught in a system that suppressed critical thinking, logical argument and free expression.

An Indian Journey From School to Homeschooling

Washington University will offer a new data science major through both the College of Arts & Sciences and the McKelvey School of Engineering ...

WU to offer data science major as joint program in McKelvey and Arts & Sciences

Future School offers coding classes to children to turn them into "creators of technology rather than consumers of technology." ...

This school comes to Mexico under the direction of Carlos Lieja to change the way we perceive education

Some kids found it much harder to get their teacher's attention in a virtual classroom than in person. On August 30, 2021, my kid joined millions of children in walking through school doors as he ...

Virtual learning: What worked, what didn't?

Hes all of 17 but his language is that of a Computer Science pro. He played chess at the national level in the Under-7 category, is disturbed at the "huge challenge" of the digital divide, hopes that ...

I aim to harness tech for everyone's benefit: Teen coder-author Paarth Arya (IANS Interview)

As a Ph.D. student in learning sciences and a math education researcher who believes ... He was more relaxed and less anxious about "bad grades." He explained that though he still had to ...

What young kids say worked – and didn't work – for them during virtual learning

The full-day camp program focuses on academics in the morning and offers enrichment activities in the afternoon five days a week for children in grades 1-3.

Inspire: SPY looks to grow beyond its summer offering to include school-year enrichment

Gov. Ron DeSantis said he plans to get rid of the Florida Standards Assessments (FSA), the state's standardized math and reading tests.

Gov. Ron DeSantis announces plans to replace standardized testing with progress monitoring

Earlier this year, the Learning ... math at a college level is evaluated through two or three large exams throughout a course, in addition to occasional quizzes or homework assignments, Lynch ...

Hartnell College, CSU Monterey Bay to rethink calculus with $100,000 state grant

Tumbling test scores reveal how much learning was not absorbed by students ... between 3 and 6 percentile points lower. And median math achievement dropped 8-12 percentile points compared to ...

Many predicted some kind of 'COVID slide' in learning. Test results show how bad it is

"I'm better with the English part and all the other stuff. I steer clear of math," the mother-of-three explained. "I already got frustrated with math at the beginning of the pandemic and handed ...

Jessica Simpson's Kids Head Back to School After More Than a Year of Remote Learning: 'Blessed'

Sign up for MarketWatch newsletters here Beware of arrogance While I believe the data are conclusive, I'm not holding my breath that it will persuade many of you to throw in the towel and go with an ...

Investors love to boast about their great stock picks, but beware of those who use fancy math to calculate their gains

By the way, don't think that you can wriggle out from these conclusions by arguing that other kinds of advisers are better than newsletter ... This helps to explain the bravado that so frequently ...

Math, Better Explained is an intuitive guide to the math fundamentals. Learn math the way your teachers always wanted.

Calculus, Better Explained is the calculus primer you wish you had in school. Learn the essential concepts using concrete analogies and vivid diagrams, not mechanical definitions. Calculus isn't a set of rules, it's a specific, practical viewpoint we can apply to everyday thinking.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Is there a way to get students to love math? Dr. Judy Willis responds with an emphatic yes in this informative guide to getting better results in math class. Tapping into abundant research on how the brain works, Willis presents a practical approach for how we can improve academic results by demonstrating certain behaviors and teaching students in a way that minimizes negativity. With a straightforward and accessible style, Willis shares the knowledge and experience she has gained through her dual careers as a math teacher and a neurologist. In addition to learning basic brain anatomy and function, readers will learn how to * Improve deep-seated negative attitudes toward math. * Plan lessons with the goal of "achievable challenge" in mind. * Reduce mistake anxiety with techniques such as errorless math and estimation. * Teach to different individual learning strengths and skill levels. * Spark motivation. * Relate math to students' personal interests and goals. * Support students in setting short-term and long-term goals. * Convince students that they can change their intelligence. With dozens of strategies teachers can use right now, Learning to Love Math puts the power of research directly into the hands of educators. A Brain Owner's Manual, which dives deeper into the structure and function of the brain, is also included—providing a clear explanation of how memories are formed and how skills are learned. With informed teachers guiding them, students will discover that they can build a better brain . . . and learn to love math!

Would you like to understand more mathematics? Many people would. Perhaps at school you liked mathematics for a while but were then put off because you missed a key idea and kept getting stuck. Perhaps you always liked mathematics but gave it up because your main interest was music or languages or science or philosophy. Or perhaps you studied mathematics to advanced levels, but have now forgotten most of what you once knew. Whichever is the case, this book is for you. It aims to build on what you know, revisiting basic ideas with a focus on meaning. Each chapter starts with an idea from school mathematics - often primary school mathematics - and gradually builds up a network of links to more advanced material. It explores fundamental ideas in depth, using insights from research in mathematics education and psychology to explain why people often get confused, and how to overcome that confusion. For nervous readers, it will build confidence by clarifying basic ideas. For more experienced readers, it will highlight new connections to more advanced material. Throughout, the book explains how mathematicians think, and how ordinary people can understand and enjoy mathematical ideas and arguments. If you would like to be better informed about the intrinsic elegance of mathematics, this engaging guide is the place to start.

Banish math anxiety and give students of all ages a clear roadmap to success Mathematical Mindsets provides practical strategies and activities to help teachers and parents show all children, even those who are convinced that they are bad at math, that they can enjoy and succeed in math. Jo Boaler—Stanford researcher, professor of math education, and expert on math learning—has studied why students don't like math and often fail in math classes. She's followed thousands of students through middle and high schools to study how they learn and to find the most effective ways to unleash the math potential in all students. There is a clear gap between what research has shown to work in teaching math and what happens in schools and at home. This book bridges that gap by turning research findings into practical activities and advice. Boaler translates Carol Dweck's concept of 'mindset' into math teaching and parenting strategies, showing how students can go from self-doubt to strong self-confidence, which is so important to math learning. Boaler reveals the steps that must be taken by schools and parents to improve math education for all. Mathematical Mindsets: Explains how the brain processes mathematics learning Reveals how to turn mistakes and struggles into valuable learning experiences Provides examples of rich mathematical activities to replace rote learning Explains ways to give students a positive math mindset Gives examples of how assessment and grading policies need to change to support real understanding Scores of students hate and fear math, so they end up leaving school without an understanding of basic mathematical concepts. Their evasion and departure hinders math-related pathways and STEM career opportunities. Research has shown very clear methods to change this phenomena, but the information has been confined to research journals—until now. Mathematical Mindsets provides a proven, practical roadmap to mathematics success for any student at any age.

Provides teachers with classroom-proven ways to prepare students to be successful math learners by teaching the vocabulary and comprehension skills needed to understand mathematics.

Foundations of Mathematics offers the university student or interested reader a unique reference book by covering the basics of algebra, trigonometry, geometry, and calculus. There are many instances in the book to demonstrate the interplay and interconnectedness of these topics. The book presents definitions and examples throughout for clear, easy learning. Numerous exercises are included at the ends of the chapters, and readers are encouraged to complete all of them as an essential part of working through the book. It offers a unique experience for readers to understand different areas of mathematics in one clear, concise text. Instructors' resources are available upon adoption. Features: • Covers the basics of algebra, trigonometry, geometry, and calculus • Includes all of the mathematics needed to learn calculus • Demonstrates the interplay and interconnectedness of these topics • Uses numerous examples and exercises to reinforce concepts

In the twenty-first century, everyone can benefit from being able to think mathematically. This is not the same as "doing math." The latter usually involves the application of formulas, procedures, and symbolic manipulations; mathematical thinking is a powerful way of thinking about things in the world -- logically, analytically, quantitatively, and with precision. It is not a natural way of thinking, but it can be learned.Mathematicians, scientists, and engineers need to "do math," and it takes many years of college-level education to learn all that is required. Mathematical thinking is valuable to everyone, and can be mastered in about six weeks by anyone who has completed high school mathematics. Mathematical thinking does not have to be about mathematics at all, but parts of mathematics provide the ideal target domain to learn how to think that way, and that is the approach taken by this short but valuable book.The book is written primarily for first and second year students of science, technology, engineering, and mathematics (STEM) at colleges and universities, and for high school students intending to study a STEM subject at university. Many students encounter difficulty going from high school math to college-level

mathematics. Even if they did well at math in school, most are knocked off course for a while by the shift in emphasis, from the K-12 focus on mastering procedures to the "mathematical thinking" characteristic of much university mathematics. Though the majority survive the transition, many do not. To help them make the shift, colleges and universities often have a "transition course." This book could serve as a textbook or a supplementary source for such a course.Because of the widespread applicability of mathematical thinking, however, the book has been kept short and written in an engaging style, to make it accessible to anyone who seeks to extend and improve their analytic thinking skills. Going beyond a basic grasp of analytic thinking that everyone can benefit from, the STEM student who truly masters mathematical thinking will find that college-level mathematics goes from being confusing, frustrating, and at times seemingly impossible, to making sense and being hard but doable.Dr. Keith Devlin is a professional mathematician at Stanford University and the author of 31 previous books and over 80 research papers. His books have earned him many awards, including the Pythagoras Prize, the Carl Sagan Award, and the Joint Policy Board for Mathematics Communications Award. He is known to millions of NPR listeners as "the Math Guy" on Weekend Edition with Scott Simon. He writes a popular monthly blog "Devlin's Angle" for the Mathematical Association of America, another blog under the name "profkeithdevlin", and also blogs on various topics for the Huffington Post.

How Students Learn: Science in the Classroom builds on the discoveries detailed in the best-selling How People Learn. Now these findings are presented in a way that teachers can use immediately, to revitalize their work in the classroom for even greater effectiveness. Organized for utility, the book explores how the principles of learning can be applied in science at three levels: elementary, middle, and high school. Leading educators explain in detail how they developed successful curricula and teaching approaches, presenting strategies that serve as models for curriculum development and classroom instruction. Their recounting of personal teaching experiences lends strength and warmth to this volume. This book discusses how to build straightforward science experiments into true understanding of scientific principles. It also features illustrated suggestions for classroom activities.

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