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Making Math Real s a multi-sensory approach to teaching and learning mathematics. Children are guided through systematic lessons using the four stages of concept formation: concrete, semi-concrete, semi-abstract and abstract. By use of manipulative and stories, children learn to truly understand the meaning of mathematical operations and how to use visual imagery and self-talk as learning strategies for math. MMR is appropriate for lower and upper elementary students who are experiencing difficulty memorizing math facts, understanding place value and/or the four basic mathematical operations. MMR is a comprehensive program, but it is not necessary for each student to complete each level; lessons can be tailored to meet individual needs. Feb 2006 I'm looking for recommendations pro/con Making Math Real - from parents who took the courses in order to help their kids or from parents who hired others who were trained in the concepts. I can't send my kid to the summer math "camp" that they offer but I may be interested in taking the overview class myself. Was it helpful, is it worth the \$? Thanks mom of math hater Making Math Real was developed for people who learn/see the world in a certain way: highly visual and highly contextual (learning needs to be in the context of a "story," complete abstractions are not well-appreciated). If your son learns in this way, Making Math Real is worth anything you can possibly afford to pay. After many years of learning specialists using other techniques, it is the only method that has helped my daughter learn even the most basic math (it does include through algebra and geometry too). So if you do not already know how your son learns best, I would suggest testing to find out, and if this is a fit, go for it! If his learning style is otherwise, then you might need to explore a different method. Joan March 2005 We have a third grader who is very hesitant about math. Her teacher says that she is "at grade level," but math is hard for her, and she has already decided that she does not like it. Does anyone have any recommendations about summer math tutors or math programs that she might take advantage of? I know one friend took her daughter to a program called Making Math Fun, but I cannot find any information about it online. We live in Berkeley. Any and all suggestions welcome! Mother of a reader! I think perhaps your friend went to Making Math Real - run by David Berg out of, I think, Cragmont in Berkeley. As a math teacher, Making Math Real offers a lot for kids who struggle with math. As a way of teaching to the general student, I am not so sure, but I can't make a judgement until I get more training and see it in action more. www.makingmathreal.org I'd say it is definitely worth a look, and very likely even a try. It also has classes for teachers (and parents) - offering ways in which you (or her teachers) could support her better - something that I think is very valuable. interested in math results You might be thinking of Making Math Real. The website is: Ellen A dyscalculia remediation program that uses money and a language-enhanced decimal place value chart to teach big-picture number concepts: counting, place value, addition, subtraction, multiplication, division, decimals, fractions, negative and positive numbers, rounding, estimation, long division, trading up, and pre-algebra. As much as possible, A Math Look resources are available for free onsite, but write-wipe charts and teaching money must be purchased to compensate designers and printers, and to honor copyrights and trademarks. A Math Look Place Value Chart - \$50, Write-wipe, 100-Quadrillion to 100-Quadrillionth, color coordinated, room for calculation.Realistic American Currency 200 bills, 2-sided: \$1, \$2, \$5, \$10, \$20, \$100, \$1,000, \$10,000, \$100,000, \$1 M, \$10 M, \$100 M, \$1 G, \$100 G, \$100 G, \$1 T, \$10 \$500,000, (\$60 - free shipping)Dyscalculia TherapyDYSCALCULIA IN THE CLASSROOMCOLORFUL, ILLUSTRATED MATH HANDBOOKS & INSTRUCTIONAL MATH WEBSITESKarismath.com Karismath - Visual Algebra - Interactive Video LessonsA system of visual math lessons that teach basic math concepts through algebra, visually and intuitively. It was developed by dyscalculia expert and Harvard psychologist, Shad Moarif and his team of Universal Design for Learning Experts. The approach takes learners through CLSO: Concepts presented visually, with emphasis on the Language of Mathematics, then the Symbols used to represent the ideas, and lastly, the Operations used to solve problems. The program builds math fluency by firmly establishing understanding and reasoning abilities. FREE VIDEO INSTRUCTION for Grades K through 5Making Math Real (MMR) is a multisensory program developed by Dr. David Berg. Classes for educators are offered through the University of California - Berkley Extension. The Making Math Real Institute offers training in Berg's Making Math Real Multisensory Structured Methodologies in K-12 Mathematics. Courses: Developing Automaticity with the Multiplication and Division Facts: The 9 Lines Multiplication Fact Acquisition and Application Strategy.Fractions, Decimals & Advanced Place Value - The Three Essentials of Algebra Readiness. All use hands-on methods for the acquisition, mastery, and application of mathematical knowledge. MMR curriculum is appropriate for K-12 through Calculus. Established in 1996. This training is primarily for educators. Dynamo Maths: Assessment, Plan, Intervention, Review. Verified by University of Oxford. NumberSense MMR Framework: Number Relationship, Magnitude, MeaningAward-winning, remediation program for dyscalculics. The multisensory program adapts instruction to learner's needs. It is based on brain research on math learning and addresses Learning Disorders and poor working memory. Personalized learning. Age 4 - 11+. Free Home Trial School Pilot Programs Over 230 online activities and supports: Assessments, Lesson Plans, Parent Activity Plans, Printable Worksheets, Interventions, Instruction, Progress Reports, and Certificates. All activities are mapped to the National Curriculum and the 21 Dyscalculia Difficulties. United Kingdom Spanish American English DemoSHAPE MATH: Grades K-5. Learn math basics without memorization, using geometric shapes and logical patterns: addition, subtraction, division, multiplication, fractions, money, & time. Shape Math® is a revolutionary technique for doing written and mental math problems. It uses a series of shapes that fit in logical patterns that make a geometric representation of the Base 10 number system. It allows students to do mental problems into the hundreds, divide without times tables, and visually and conceptually understand abstract concepts. Instead of thinking about how two numbers add together, the student thinks about how two numbers fit together. Shape Math® was designed by Michael Cornell, a dyslexic who is also dyscalculic.MATH UPGRADE form Learning Upgrade. Online multimedia tutorial program (basic math, pre-algebra, algebra, language, reading) from a creative team of teachers, musicians, artists and programmers in San Diego, California, USA. Featuring songs, video, animation and games to help each student achieve breakthrough learning. Used by over 300,000 students since 1998, including struggling readers, special needs students, and English learners. Incorporates the latest ed research, curriculum standards, assessment and progress tracking. Placement tests | Award-winning | Designed for Dyscalculics | MotivatingApp & Online Subscriptions | 21 Courses | K, 1, 2, 3, 4, 5, 6, 7, 8, Algebra, GEDFREE SUMMER SCHOOL SUBSCRIPTION for K-12 SCHOOLS. Free trial. Individuals: \$50. per 6 months, for 1 course. Fractions Demo Schools: \$30 per student per year, unlimited courses. HIGHLY RECOMMENDED. Excellent motivation and organization. Grades 1-8Grades 9-12College ALEKS.COM Assessment and Learning in Knowledge Spaces (ALEKS) is a Web-based, artificial intelligent assessment and learning system. ALEKS uses adaptive questioning to quickly and accurately determine exactly what a student knows and doesn't know in a course. ALEKS then instructs the student on the topics they're most ready to learn. ALEKS periodically reassesses the student to assure retention. ALEKS courses are complete in scope and avoid multiple-choice questions. ALEKS provides one-on-one instruction, 24/7, from virtually any Web-based computer for a fraction of the cost of a human tutor. Read an overview of ALEKS "Note that students with severe dyscalculia have experienced frustration with ALEKS because retrieval disability interferes with performance on periodic review assessments. The pie gets reset and gains disappear. Poor intermittent and inconsistent retrieval of learned ideas is a hallmark of dyscalculia. The Davis Math Mastery Program: Ages 8 +. Developed by a dyslexic for dyslexics. Usually completed in five days. Does not use manipulatives, memorization tricks, flashcards, or repetition. Rationale: Visual-spatial thinkers are easily confused by the "words" that describe math functions and experience regular disorientation of perception that impedes their ability to grasp concepts of time and sequence, and thus order vs. disorder. The Davis Method develops one's control of disorientation and sense of time and sequence, enabling the student to "see" math functions and easily learn and understand math. *Dyscalculic students usually LACK the ability to visually imagine and mentally manipulate numbers, images, and quantitative ideas. The Davis Method is appropriate for dyslexics, but may not succeed with dyscalculics. All Math content from pre-algebra to calculus is rooted in the connections of the multiplication and division facts. Unfortunately it is conservatively estimated that 50 % of students nationwide have not developed automaticity with the multiplication facts. The struggle educators and students have faced in attempting to teach and learn the multiplication facts date back to the beginnings of formal instruction of mathematics. The frustration, confusion and discouragement educators and students experience when students, regardless of everybody's effort, can not recall the time's tables, represents the greatest educational challenge in the entire K-12 math continuum. The traditional methods have not been successful because they do not address the developmental basis of the problem: until students have developed sufficient sensory-cognitive tools supporting access to symbolic memory, they will not be able to image, store or retrieve all the multiplication or division facts with automaticity. Symbol Imaging/ The 9 LinesMental imagery was already discussed by the early Greek philosophers. Socrates sketched a relation between perception and imagery by assuming that visual sensory experience creates images in the human's mind, which are representations of the real world. Later on, Aristoteles stated that "thought is impossible without an image". Later on, the idea was formed, that the study of imagery supports the study of cognition because thinking is often accompanied by images. Imagery has often been believed to play a very large, even pivotal, role in memory (Yates, 1966; Paivio, 1986) and motivation (McMahon, 1973). Imagination is the ability to form images, perceptions, and concepts. In fact, images, perceptions and concepts are not perceived through sight, hearing or other senses. Imagine the work of our mind! Imagination helps to provide meaning and provides an understanding of knowledge; it also plays a key role in the learning process. Imagine any power we face. We combine what we touch, see and hear into a "picture" by imagination. The brain is capable of restoring objects previously presented on three different reception levels (auditory, tactile and visual). This means we have the ability to perceive, hold, store and retrieve sequences of numbers or letters. Students with weak sensory - cognitive skills are often challenged with their memory and therefore frequently present with learning challenges, such as remembering and applying new concepts. The development of symbol imaging does not "come with age", it needs to be activated in a very specific way and practiced daily. "The 9 Lines" of the Making Math Real method is a strategy to address the development of symbol imaging to support automaticity with the multiplication and division facts.Eckstein Learning Solutions, in utilizing Making Math Real (MMR) methods, is in no way affiliated with, a member of, or employed by the Making Math Real Institute (MMR), and does not represent or reflect MMR or David Berg in any way whatsoever. Neither the MMRI nor David Berg has trained, certified, licensed, monitored, endorsed, recommended, or sponsored Eckstein Learning Solutions. MMR is a clinical methodology, not a program or a curriculum, and neither the MMRI nor David Berg monitors, endorses, or accounts for the quality of the services provided by Eckstein Learning Solutions. Math doesn't come naturally to everyone, and it's a source of frustration for many students. At READ Learning Center, Making Math Real helps struggling learners find success through a unique approach designed to build understanding and confidence. By leveraging multisensory math, this method equips students to tackle math challenges in ways that suit their learning styles. Unlike traditional methods, Making Math Real integrates visual, auditory, and tactile strategies, ensuring students fully grasp and retain complex concepts. This approach has proven particularly effective for students with learning differences, such as dyslexia or ADHD, as it creates stronger neural connections. Methods like this are part of a broader commitment at READ Learning Center to use evidence-based strategies that adapt to the needs of every child. Learn more about how we tailor instruction by exploring the comprehensive curriculum that supports academic success. Challenges with math are often linked to broader learning difficulties. That's why READ Learning Center offers services that address all aspects of a student's academic journey. From evaluating learning needs through dyslexia assessments to reinforcing key skills with after-school tutoring, we create customized plans that ensure students receive the targeted support they need. For families in Sacramento, these methods provide the comprehensive solutions necessary to foster lasting academic growth. Explore more about our services to see how we empower students at every level. When families step through the doors of READ Learning Center, they find more than just a classroom—they find a partner in their child's success. Our innovative methods, such as using Making Math Real, are designed to meet each student where they are and help them achieve their goals. Start your child's journey toward a bright future today by scheduling a private tour of our center. Experience firsthand how our supportive environment and evidence-based methods are changing lives. As a cornerstone of Sacramento's education community, READ Learning Center has been a trusted resource for families seeking effective solutions for learning challenges. Methods like Making Math Real demonstrate our commitment to helping children unlock their potential while building lifelong skills. Discover why families turn to us when they need results-driven educational support. Q: How does Making Math Real differ from traditional math instruction?A: This methodology goes beyond memorization, focusing on deep understanding through multisensory learning techniques. Q: Who benefits most from this methodology?A: Students who struggle with traditional math methods, especially those with learning differences such as dyslexia or ADHD, often see remarkable results. Q: What additional support does READ Learning Center provide?A: From personalized tutoring to assessments for learning challenges, we offer a range of services that complement this method and ensure holistic academic growth. Start your child's journey toward a bright future today. Call now at (916) 234-5880 or Schedule a private tour to experience how our programs, including Making Math Real, inspire confidence and success in learning. Together, we'll help your child reach their full potential. Leah Skinner, M.Ed., Founder of READ Academy, holds a Master of Education: Dyslexia Specialist and is a Doctoral Candidate in Reading, Literacy, and Assessment. As a passionate Certified Dyslexia Therapist and Education Advocate with over 20 years of experience and mother of five neurodiverse sons, she guides Sacramento families through every step of their educational journey, fostering confidence, independence, and lifelong academic success. An estimated 3-7% of children, adolescents, and adults have dyscalculia - a learning disorder that affects how individuals understand numbers and math. While many people may struggle with math, those with dyscalculia are at risk of falling behind in school and having real-life difficulties with everyday tasks. Do you have a child that struggles with abstract math formulas? If so, you might be wondering if there is a way to start teaching math lessons in a way that brings them to life. Making Math Real is a simultaneous multisensory structured methodology designed to help kids, parents, and teachers overcome obstacles like dyscalculia. Keep reading to learn more about how it works and some techniques to use. Why Does Math Matter? Unfortunately, there are many ways that our current education system falls short of providing an inclusive learning environment. Children with learning disabilities often struggle far more than their peers since they may not process information similarly. For instance, individuals with dyscalculia struggle with mathematical concepts. Their brains struggle to process math symbols and to process number-related information. As such, it becomes difficult for them to solve operations, understand concepts, or even memorize multiplication tables. We use math so much that it can be easy to forget how much numbers play a part in our lives. We use math to pay for purchases or bills, determine the time, measure speed, calculate distance, and more. We count and measure for cooking, playing music, managing our finances, and other everyday tasks. Math is so crucial in our lives that we begin learning basic concepts and formulas when we are young. However, kids who struggle to comprehend these basic equations and formulas will continue to fall behind as math becomes more complex. So, what is the solution? Taking abstract mathematical information and applying it to the physical world helps dyscalculic students learn. That is where Making Math Real makes a difference. It helps educators create math lesson plans that reach all children. The Making Math Real Approach Making Math Real is a simultaneous multisensory structured approach to mathematics. It benefits students, parents, and educators. It's also a beneficial approach for all students from K-12. Let's break down what it means. Simultaneous multisensory methods are meant to activate and link a student's processing skills. These teaching methods link auditory, visual, and touch/motor senses. Rather than simply reading a book or hearing a teacher explain a formula on a board, kids receive the information in three different ways. As such, it maximizes an individual's information processing and helps them to learn better. It's also a structured approach. Instruction begins with a basic foundation and builds upon ideas from the concrete to the abstract. The goal is to form essential connections before introducing a new element. Making Math Real is a curriculum or methodology that works for all students, regardless of their processing styles and abilities. It has connections to cognitive science and neurobiology. It also focuses on comprehension, not mere memorization. The problem with rote memory is that students may remember the information for a test, but forget it weeks or even days later. Additionally, there isn't always a link between memorization and comprehension. When it comes to mathematics, many students go through the motions and use formulas without truly understanding why it works. Making Math Real is also an approach that benefits educators as it allows them to create a learning environment that serves every student's needs. Multi-Sensory Techniques Now that you know more about the difficulties many students with mathematical learning disabilities face, how can you help? Following the Making Math Real methodology and educating yourself about the different ways to link the senses and reach your students is the best way to get started. However, we've also put together a few ideas for multi-sensory techniques. If you're trying to assist kids with math difficulties, it helps to know what type of learner they are. Tactile Tactile or touch learning helps to reinforce an idea. It's often used to help young children grasp basic numbers. For instance, you might give a kindergartener Play-Doh and tell them to form different numbers. You could say the number three and have the child form the number out of Play-Doh. Let kids draw, touch, move, or build while discussing numbers and mathematical equations. Use manipulative objects to reinforce ideas in a way that connects their sense of touch with sight and sound. Kinesthetic Individuals who learn best using kinesthetic techniques use their entire bodies to learn. They're similar to those who learn well through tactile learning but would rather use their fingers, arms, legs, etc. to understand concepts. You can help as an instructor by letting them move as they learn. It can make math more fun for the entire class! One idea to implement multi-sensory experiences is to use music and dance in your learning process. There are plenty of songs and dances online that you can find to help students learn concepts. Verbal We often think about writing math equations on paper or a whiteboard. However, talking about a problem can help verbal learners comprehend a topic better. Let kids talk about the process as they work it out. Let them think out loud. Combine the senses by giving kids flash cards and having them "write" the numbers in the air while saying them aloud. For example, they could write 3 + 4 = 7 in the air and speak each number and part of the equation aloud to help the concept sink in. Ask follow-up questions, like what sign they see after three. Help Kids Succeed Making Math Real is an approach that combines the senses to help kids comprehend equations and problems. It uses all the senses during the learning process to ensure concepts stick, benefiting all students. Our program can help your children succeed in school and overcome math difficulties, as well as other learning challenges they may face. Learn more about how we can help on our admissions page.

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