

do the math by marilyn burns

Introduction to "Do the Math" by Marilyn Burns: A Deep Dive into Elementary Math Education

Embarking on the journey of elementary mathematics education can be a transformative experience for both students and educators, and the seminal work, "Do the Math" by Marilyn Burns, stands as a beacon in this field. This comprehensive guide offers practical strategies and insightful approaches to fostering a deeper understanding and appreciation for mathematics in young learners. By demystifying complex concepts and advocating for hands-on, engaging activities, Marilyn Burns empowers teachers to create dynamic learning environments where mathematical thinking thrives. This article will explore the core principles of "Do the Math," examining its emphasis on conceptual understanding, the importance of problem-solving, and its impact on various aspects of elementary math instruction. We will delve into how Burns's philosophy encourages exploration, discovery, and a positive attitude towards math, ultimately aiming to equip readers with a thorough understanding of how "Do the Math" by Marilyn Burns revolutionizes the way we teach and learn mathematics at the foundational level.

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Understanding the Philosophy Behind "Do the Math" by Marilyn Burns

"Do the Math" by Marilyn Burns is rooted in a profound belief that all children can learn mathematics and, more importantly, enjoy the process. Burns champions a constructivist approach, where students actively build their own understanding through exploration, experimentation, and interaction with mathematical concepts. This philosophy rejects rote memorization and emphasizes the development of deep conceptual understanding, where students grasp the 'why' behind mathematical procedures. The core tenet is to move away from simply "doing" math problems and towards truly "understanding" the mathematical ideas involved. This shift is crucial for building a strong foundation for future mathematical learning and for cultivating a lifelong positive relationship with the subject. The methods presented in "Do the Math" are designed to make abstract mathematical ideas tangible and relatable to children's everyday experiences.

Marilyn Burns's philosophy underscores the importance of a positive and supportive learning environment. She advocates for classrooms where mistakes are seen as learning opportunities, encouraging students to take risks and to persevere through challenges. This nurturing atmosphere is essential for developing confidence and a growth mindset, which are critical for success in mathematics. The emphasis is on creating a community of learners who collaborate, discuss, and learn from each other. This collaborative spirit fosters a deeper engagement with the material and helps students to articulate their mathematical thinking, a key component of effective math education.

Key Principles of Marilyn Burns's Approach to Math Education

The "Do the Math" approach, as conceptualized by Marilyn Burns, is built upon several foundational principles that guide effective elementary mathematics instruction. These principles are designed to create a learning experience that is both rigorous and engaging, ensuring that students develop a robust understanding of mathematical concepts.

Focus on Conceptual Understanding

At the heart of "Do the Math" is a commitment to fostering deep conceptual understanding rather than superficial procedural knowledge. Marilyn Burns argues that true mathematical proficiency comes from understanding the underlying principles and relationships between different mathematical ideas. This means moving beyond simply teaching algorithms and formulas and instead focusing on helping students visualize concepts, make connections, and explain their reasoning. For instance, when teaching multiplication, Burns would encourage the use of manipulatives like base-ten blocks or drawings to represent the concept of repeated addition or arrays, rather than just memorizing multiplication tables.

The Importance of Manipulatives and Hands-On Learning

A cornerstone of the "Do the Math" philosophy is the extensive use of manipulatives and hands-on activities. Marilyn Burns strongly advocates for providing students with concrete tools and experiences to explore mathematical ideas. These tools, ranging from counting bears and pattern blocks to Cuisenaire rods and fraction circles, allow children to physically interact with abstract

concepts, making them more accessible and understandable. This tactile engagement helps to solidify learning and build strong mental models that support future mathematical development. By engaging multiple senses, manipulatives cater to diverse learning styles and enhance retention.

Developing Mathematical Reasoning and Problem-Solving Skills

Beyond mastering procedures, "Do the Math" by Marilyn Burns emphasizes the development of critical thinking, mathematical reasoning, and problem-solving skills. Students are encouraged to explore multiple strategies for solving problems, to analyze different approaches, and to justify their solutions. This cultivates a more flexible and resilient approach to mathematical challenges. Burns believes that problem-solving is not just an application of learned skills but a fundamental way of doing mathematics. By presenting real-world problems and encouraging students to think critically, teachers can foster a deeper appreciation for the relevance and power of mathematics.

Making Math Meaningful and Relevant

Marilyn Burns consistently stresses the importance of making mathematics meaningful and relevant to children's lives. This involves connecting mathematical concepts to everyday experiences, using real-world data, and engaging students in activities that have clear purposes. When students see how math is used in the world around them, they are more likely to be motivated and engaged. This approach helps to combat math anxiety and build a positive attitude towards learning. For example, exploring concepts of measurement through cooking or understanding data through analyzing sports statistics makes math come alive for young learners.

Differentiated Instruction and Meeting Diverse Needs

Recognizing that students learn at different paces and in different ways, the "Do the Math" approach strongly supports differentiated instruction. Marilyn Burns provides teachers with strategies and resources to adapt lessons to meet the diverse needs of all learners, including those who are struggling and those who need enrichment. This often involves offering a range of activities, providing scaffolding, and allowing for multiple pathways to understanding. The goal is to ensure that every child has the opportunity to succeed and to develop a strong sense of mathematical competence.

Practical Strategies and Activities for Implementing "Do the Math"

Translating the philosophy of "Do the Math" by Marilyn Burns into classroom practice requires a repertoire of engaging and effective strategies. These methods are designed to actively involve students in their learning journey and to make mathematics an exciting exploration rather than a tedious task. Educators can leverage these techniques to foster a dynamic learning environment that promotes both understanding and enthusiasm.

Utilizing Manipulatives Effectively

The core of implementing "Do the Math" involves the strategic use of manipulatives. It's not enough to simply provide blocks or counters; teachers must guide students in using them to explore specific mathematical concepts. For example, when teaching addition and subtraction with regrouping, students can use base-ten blocks to physically trade ten ones for one ten or one ten for ten ones, making the abstract concept of regrouping concrete. Similarly, fraction strips or circles are invaluable for teaching equivalent fractions and operations with fractions, allowing students to visually compare and combine parts of a whole. The key is to connect the manipulation of objects to the abstract symbols and procedures of mathematics.

Designing Rich Mathematical Tasks

Marilyn Burns advocates for the use of rich mathematical tasks that encourage exploration and multiple solution pathways. These are problems that are open-ended, allowing students to approach them in various ways and to demonstrate their understanding through different methods. Instead of providing a single, direct procedure, teachers should present tasks that invite students to investigate, hypothesize, and justify their thinking. For instance, a problem like "How many ways can you make 25 cents using pennies, nickels, and dimes?" encourages students to systematically explore combinations, leading to a deeper understanding of number relationships and strategies.

Promoting Mathematical Discourse

A crucial element of "Do the Math" is fostering a classroom culture of mathematical discourse. Marilyn Burns emphasizes the importance of students talking about their mathematical thinking, explaining their strategies, and engaging in reasoned arguments. This can be facilitated through structured discussions, think-pair-share activities, and opportunities for students to present their solutions on the board. By actively listening to and questioning each other, students refine their own understanding and learn from the diverse perspectives of their peers. Encouraging students to articulate their thinking process, including their errors and how they corrected them, is a powerful learning tool.

Integrating Technology Thoughtfully

While hands-on manipulatives are central, technology can also play a valuable role in a "Do the Math" classroom when used thoughtfully. Interactive whiteboards, educational apps, and online simulations can provide dynamic visual representations of mathematical concepts and offer engaging practice opportunities. For example, interactive geometry software can allow students to manipulate shapes, explore transformations, and discover geometric properties in ways that are not possible with static materials. The key is to ensure that technology serves to deepen understanding and engagement, rather than simply replacing traditional methods or becoming a passive activity.

Using Journals and Reflective Writing

Mathematics journals or notebooks provide a space for students to document their learning, reflect on their thinking, and respond to prompts. This practice, strongly supported by Marilyn Burns's principles, allows students to solidify their understanding, identify areas of confusion, and

communicate their mathematical ideas in writing. Prompts might include explaining how they solved a problem, describing a new concept they learned, or reflecting on a mistake they made and what they learned from it. This metacognitive practice is vital for developing a deeper, more personal connection with mathematics.

The Role of Problem-Solving in "Do the Math" by Marilyn Burns

Problem-solving is not merely an add-on to the curriculum in Marilyn Burns's "Do the Math"; it is intrinsically woven into the fabric of mathematical learning. Burns firmly believes that problem-solving is the engine that drives mathematical understanding and that engaging in solving challenging problems is how students truly learn to think mathematically. This perspective shifts the focus from simply finding the correct answer to understanding the process, the strategies, and the underlying mathematical concepts that lead to that answer.

Problem-Solving as a Vehicle for Learning

Marilyn Burns views problem-solving not as a destination, but as a journey that leads to deeper mathematical knowledge. When students are presented with well-designed problems, they are naturally pushed to activate their existing knowledge, to make connections, and to develop new strategies. This active engagement is far more effective for learning than passively receiving information. For example, a word problem that requires students to analyze a situation, identify relevant information, and devise a plan to find a solution fosters critical thinking skills that extend far beyond the specific problem being solved.

Strategies for Effective Problem-Solving

"Do the Math" by Marilyn Burns encourages the teaching and exploration of various problem-solving strategies. These are not presented as rigid steps but as a toolkit that students can draw upon depending on the nature of the problem. Common strategies include:

- Drawing a picture or diagram
- Looking for a pattern
- Making a table or list
- Guessing and checking
- Working backward
- Simplifying the problem
- Using a related problem

By actively teaching and encouraging the use of these diverse strategies, educators empower students to approach unfamiliar problems with confidence and flexibility. The emphasis is on the student's ability to select and adapt strategies, demonstrating a sophisticated understanding of problem-solving.

Encouraging Multiple Solution Paths

A key aspect of Marilyn Burns's problem-solving approach is celebrating and exploring multiple ways to solve a single problem. This not only validates different thinking processes but also reveals the interconnectedness of mathematical concepts. When students see that a problem can be solved through addition, subtraction, multiplication, or even a visual representation, they gain a more holistic understanding of the mathematical landscape. This also caters to different learning styles and allows students to find approaches that resonate best with their own cognitive strengths.

The Role of Questioning in Problem-Solving

Effective questioning from the teacher is paramount in guiding students through problem-solving. Instead of giving away the answer, educators ask probing questions that encourage students to think more deeply, to explain their reasoning, and to consider alternative approaches. Questions like, "How do you know that?" "Can you explain your thinking another way?" or "What if we changed this part of the problem?" stimulate critical thinking and promote self-discovery, aligning perfectly with the tenets of "Do the Math" by Marilyn Burns.

Perseverance and Mindset

Marilyn Burns's philosophy also addresses the importance of perseverance and fostering a positive mindset towards challenging problems. Students are encouraged to view difficulties not as roadblocks but as opportunities for growth. By creating a supportive environment where effort is valued and mistakes are seen as learning experiences, teachers can help students develop resilience and a belief in their ability to tackle complex mathematical challenges. This growth mindset is fundamental to long-term success in mathematics.

Addressing Common Math Challenges with "Do the Math"

Many elementary school students encounter difficulties and anxieties when it comes to learning mathematics. The "Do the Math" approach, as championed by Marilyn Burns, offers practical and effective solutions to common challenges, transforming the learning experience from one of struggle to one of confidence and success. By focusing on understanding, engagement, and a positive learning environment, Burns's methodologies help to dismantle barriers that often impede mathematical progress.

Overcoming Math Anxiety

Math anxiety is a pervasive issue that can hinder a student's ability to learn and perform in mathematics. "Do the Math" by Marilyn Burns addresses this directly by emphasizing a conceptual, hands-on approach that makes math less intimidating. When students are allowed to explore concepts with manipulatives and engage in problem-solving without the pressure of immediate, singular correct answers, their anxiety often dissipates. Building a strong foundation of understanding and celebrating effort over just achievement helps to foster a more positive self-perception regarding mathematical abilities. Creating a safe space for questioning and error correction is also vital in reducing fear.

Addressing Gaps in Foundational Understanding

Many students enter higher grades with foundational gaps in their understanding of basic mathematical concepts. The "Do the Math" philosophy is particularly effective at identifying and addressing these gaps because it prioritizes conceptual understanding. By using manipulatives and engaging activities, teachers can diagnose where students' understanding might be shaky and provide targeted interventions. Instead of simply reteaching a procedure, Burns's approach helps students revisit the underlying concepts, ensuring that they build a solid understanding that can support more advanced learning. This often involves going back to concrete representations to solidify abstract ideas.

Engaging Reluctant Learners

Some students are naturally less inclined towards mathematics, often due to past negative experiences or a lack of perceived relevance. The engaging and meaningful nature of the activities recommended in "Do the Math" is a powerful antidote to reluctance. By connecting math to real-world scenarios, allowing for creative problem-solving, and incorporating games and interactive elements, Marilyn Burns's methods make math more appealing and accessible. When students see the purpose and application of what they are learning, their motivation and engagement naturally increase. The emphasis on collaborative learning can also motivate students who may feel isolated when tackling math alone.

Teaching Complex Concepts Simply

Concepts like fractions, decimals, multiplication of larger numbers, or even early algebra can be challenging for young learners. "Do the Math" provides teachers with strategies to break down these complex ideas into manageable, understandable steps. The use of manipulatives like fraction tiles, base-ten blocks, or number lines allows students to visualize these concepts in concrete ways. By scaffolding the learning process and providing multiple entry points, Marilyn Burns's approach ensures that students can grasp even the most challenging mathematical ideas.

Developing Fluency and Flexibility

While "Do the Math" prioritizes conceptual understanding, it does not neglect the importance of fluency and mathematical flexibility. Once students understand the concepts, they can then work

towards efficient recall and application. This is achieved through engaging practice that reinforces understanding, rather than rote memorization. For example, after understanding the concept of multiplication through arrays, students can then practice with games and activities that build fluency with multiplication facts, understanding the patterns and relationships that make memorization more meaningful.

The Impact of "Do the Math" on Student Engagement and Achievement

The "Do the Math" approach, as developed by Marilyn Burns, has a demonstrably positive impact on both student engagement and academic achievement in mathematics. By shifting the focus from rote memorization to deep understanding and by employing engaging, hands-on methodologies, Burns's work fosters a more positive and effective learning environment. This, in turn, leads to improved student outcomes and a more robust grasp of mathematical concepts.

Increased Student Engagement

One of the most significant outcomes of implementing "Do the Math" is a marked increase in student engagement. When students are actively involved in manipulating objects, exploring problems, and discussing their ideas, they are naturally more invested in the learning process. This active participation combats passive learning and transforms mathematics from a subject to be endured into one to be explored. The joy of discovery that comes from hands-on activities and the satisfaction of solving challenging problems contribute to a heightened level of interest and enthusiasm for mathematics. This engagement is not just about having fun; it's about building a genuine connection with the subject matter.

Enhanced Conceptual Understanding

The core of "Do the Math" lies in building deep conceptual understanding, and this directly translates into improved academic achievement. Students who grasp the 'why' behind mathematical procedures are better equipped to apply their knowledge to new situations and to solve problems that they haven't encountered before. This conceptual mastery leads to more flexible thinking and a greater ability to transfer learning across different mathematical domains. Instead of just knowing how to do a problem, students understand the underlying principles, which is crucial for long-term retention and success.

Improved Problem-Solving Abilities

As highlighted previously, "Do the Math" places a strong emphasis on problem-solving as a primary mode of learning. This focus cultivates students' abilities to analyze situations, devise strategies, and persevere through challenges. Students who consistently engage in problem-solving activities develop greater confidence in their ability to tackle complex tasks, a skill that is invaluable both within mathematics and across other academic disciplines. Their ability to think critically and creatively is significantly enhanced, leading to higher achievement in tasks that require more than

just recall.

Development of Positive Attitudes Towards Math

Beyond academic metrics, the "Do the Math" approach fosters a more positive attitude towards mathematics. By reducing anxiety, increasing confidence, and making learning enjoyable, Marilyn Burns helps to create a generation of students who view math as accessible and even enjoyable. This positive disposition is crucial for lifelong learning and for encouraging students to pursue further studies in STEM fields. A student who believes they are capable of understanding math and who enjoys the process is far more likely to succeed than one who is fearful or disengaged.

Building a Strong Foundation for Future Learning

The conceptual understanding and problem-solving skills developed through the "Do the Math" framework provide students with a robust foundation for future mathematical learning. Concepts learned in elementary school are building blocks for more advanced mathematics in middle school, high school, and beyond. By ensuring that students have a solid grasp of foundational principles and have developed effective learning strategies, this approach prepares them for greater success in their academic careers and equips them with the critical thinking skills necessary for navigating an increasingly data-driven world.

Resources and Further Exploration for "Do the Math"

For educators and parents seeking to implement the principles of "Do the Math" by Marilyn Burns, a wealth of resources are available. Marilyn Burns herself has developed extensive materials and programs designed to support teachers in bringing her effective methodologies into the classroom. Exploring these resources can provide a deeper understanding of her philosophy and offer practical tools for teaching elementary mathematics.

Marilyn Burns Education Associates

The primary hub for all things related to Marilyn Burns's work is Marilyn Burns Education Associates. This organization offers a comprehensive suite of resources, including professional development opportunities, teaching materials, books, and manipulatives. Teachers can find lesson plans, activity guides, and in-depth explanations of how to implement the "Do the Math" philosophy across various grade levels and mathematical strands. The website serves as an invaluable clearinghouse for educators committed to fostering deep mathematical understanding.

Books and Publications by Marilyn Burns

Marilyn Burns has authored numerous influential books and publications that are central to the "Do the Math" approach. These books often delve into specific mathematical topics, offering pedagogical strategies, activity ideas, and insights into children's mathematical thinking. Titles such as

"Mathematics: For Teachers," "About Teaching Mathematics," and various grade-level specific "Do the Math" books provide educators with the theoretical underpinnings and practical applications needed to transform their classrooms. These publications are considered essential reading for anyone dedicated to effective elementary math education.

Manipulatives and Teaching Materials

The effectiveness of "Do the Math" is intrinsically linked to the use of high-quality manipulatives. Marilyn Burns Education Associates offers a curated selection of the best manipulatives, carefully chosen to support conceptual development in areas like number sense, geometry, measurement, and data analysis. Resources also include reproducible activity sheets, assessment tools, and visual aids that complement the hands-on learning experiences. Acquiring or creating these materials is a key step in successfully implementing Burns's approach.

Professional Development Opportunities

For educators seeking to deepen their understanding and hone their skills in implementing the "Do the Math" approach, Marilyn Burns Education Associates provides various professional development opportunities. These can range from workshops and webinars to on-site school consultations. These programs offer direct instruction from experienced professionals who can model effective teaching strategies, address specific classroom challenges, and guide teachers in adapting the "Do the Math" principles to their unique teaching contexts. Investing in professional development is often crucial for successful implementation.

Online Resources and Communities

In addition to formal resources, there are numerous online communities and informal networks where educators share their experiences and insights related to "Do the Math." Engaging with these communities can provide peer support, offer new ideas, and help teachers stay current with best practices in math education. Many educational blogs and forums feature discussions and resources inspired by Marilyn Burns's work, creating a collaborative space for continuous learning and improvement.

Conclusion: The Enduring Legacy of "Do the Math" by Marilyn Burns

The legacy of "Do the Math" by Marilyn Burns in the field of elementary mathematics education is undeniable and profoundly impactful. Her work has consistently championed a pedagogical philosophy that prioritizes conceptual understanding, active engagement, and the development of critical thinking skills over rote memorization. By advocating for hands-on learning with manipulatives, fostering mathematical discourse, and emphasizing the joy of discovery, Marilyn Burns has provided educators with a powerful framework for making mathematics accessible, meaningful, and enjoyable for all children. The "Do the Math" approach not only equips students with the foundational mathematical knowledge they need to succeed but also instills in them a confidence and

a positive disposition towards the subject that can last a lifetime. The principles outlined in her extensive body of work continue to guide and inspire countless teachers, shaping the way we teach and learn mathematics, ensuring that students not only "do" the math, but truly "understand" it.

Frequently Asked Questions

What is the core philosophy behind Marilyn Burns' 'Do the Math' approach?

Marilyn Burns' 'Do the Math' emphasizes the importance of developing a deep conceptual understanding of mathematics, rather than rote memorization or procedural fluency alone. It focuses on making math engaging, accessible, and relevant to students' lives through problem-solving and exploration.

How does 'Do the Math' address different learning styles and abilities?

'Do the Math' is designed to be highly differentiated, offering a range of activities and tools that cater to diverse learning styles and abilities. It encourages the use of manipulatives, visual aids, and collaborative work to ensure all students can access and succeed in mathematics.

What are some key strategies or components of the 'Do the Math' program?

Key components include a focus on conceptual understanding, problem-solving as a central activity, use of hands-on manipulatives, opportunities for discourse and sharing of mathematical thinking, and a progression of skills built on a solid foundation. It often involves centers, games, and projects.

Why is 'Do the Math' still considered relevant and trending in math education today?

Its relevance stems from its consistent alignment with current pedagogical best practices, such as the emphasis on conceptual understanding, problem-solving, and student-centered learning, as promoted by organizations like NCTM. It equips students with flexible thinking and a positive attitude towards math, which are crucial for future success.

What kind of materials or resources are typically associated with 'Do the Math'?

Resources often include a wide array of hands-on manipulatives (like pattern blocks, base-ten blocks, fraction circles), activity cards or task cards, student workbooks, teacher guides with differentiated lessons, and sometimes interactive digital tools that support the concrete-representational-abstract (CRA) progression.

Additional Resources

Here are 9 book titles related to "Do the Math" by Marilyn Burns, with descriptions:

1. Math Doesn't Suck: How to Survive Middle School Math--Without Losing Your Mind or Your Friends
This engaging book aims to demystify middle school math for students, making it accessible and even enjoyable. It tackles common anxieties and provides practical strategies for understanding key concepts. The author uses humor and relatable scenarios to show readers that math is not as daunting as it seems and can be a valuable life skill.

2. The Grapes of Math
This picture book uses clever rhymes and visual puzzles to introduce young children to basic math concepts like counting, addition, and subtraction. Each page presents a charming illustration with a hidden math challenge. It's a playful way to build early mathematical thinking and observation skills.

3. Number the Stars
While a historical fiction novel, this book subtly incorporates themes of strategic thinking and problem-solving, which are integral to mathematical reasoning. The protagonist must make difficult decisions and navigate complex situations, demonstrating a form of applied logic. It's a story about courage and resilience that indirectly highlights the importance of thoughtful action.

4. Math Curse
This humorous and imaginative book follows a student who discovers that math is everywhere, transforming everyday objects into mathematical problems. It encourages readers to see the world through a mathematical lens, making abstract concepts tangible. The book playfully demonstrates how mathematics can be applied to solve real-world scenarios.

5. Sideways Arithmetic From Ways to Count
This book explores various methods and philosophies of counting and arithmetic from around the world and throughout history. It delves into the fascinating evolution of mathematical thought, showcasing different approaches to numbers. Readers will gain a deeper appreciation for the diversity and ingenuity of mathematical systems.

6. The Number Devil: A Mathematical Adventure
This fantasy novel takes a young boy on a journey through the fantastical world of numbers, guided by a mischievous "Number Devil." It introduces advanced mathematical concepts in an engaging and imaginative way, making them accessible to younger readers. The book aims to spark curiosity and show the beauty and wonder of mathematics.

7. What If? Serious Scientific Answers to Absurd Hypothetical Questions
This book explores numerous hypothetical scenarios, requiring logical reasoning and the application of scientific and mathematical principles to derive answers. It encourages critical thinking and demonstrates how mathematical models can be used to understand complex or unlikely situations. The book makes learning about science and math an exciting adventure.

8. Sir Cumference and the First Round Table
This charming picture book introduces young children to geometric concepts, specifically the properties of circles and the concept of a diameter. Through a whimsical story about King Arthur, readers learn about measurement and spatial reasoning. It's a gentle introduction to geometry and its practical applications.

9. _The Joy of X: A Guided Tour of Math, from One to Infinity_

This book offers an accessible and engaging exploration of mathematics, covering a wide range of topics from fundamental arithmetic to advanced calculus. The author breaks down complex ideas into understandable language, making math enjoyable for a general audience. It aims to instill a sense of wonder and appreciation for the beauty and power of mathematics.

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