

**LIVE WEBINAR**

INTRODUCING TOUCHMATH FOR GRADES 3-5

# Making fractions, measurement, and data concrete for grades 3-5

Thursday, May 7 | 3:30 PM ET

**TOUCHMATH**




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## Let's get started

- Please use the Chat feature to ask questions and watch for digital handouts and informative links.
- If you experience technical difficulties, such as sound or video issues, please log off and come back to the webinar.
- This session is being recorded; an On-Demand link will be emailed to all registrants to watch again and share with your colleagues.
- Please refrain from using any AI note-taking apps during the webinar, as this reduces the number of registrants who can attend the live event.



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**LEARNING OBJECTIVES**



- Introduce TouchMath®
- Share the research and the why behind our new offering: TouchMath Grades 3 to 5
- Explore the instructional design and core components including new hands-on manipulatives to teach fractions, measurement, and data
- Preview the grade-band progression from Grades 3 to 5
- WIN a set of TouchFractions™ & TouchCubes™ manipulatives and access a free sample lesson!

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MEET OUR WEBINAR FACILITATORS



**Chelsi Brosh, PhD, BCBA-D**  
Senior Vice President  
TouchMath



**Angel Foley, EdD**  
Director of Training & Learning  
TouchMath

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## TouchMath Mission

We are committed to **empowering educators** and **supporting special student populations**, especially those with learning challenges and disabilities, by providing scientifically-based instructional programs and tools that **ensure every student has the opportunity to succeed.**



**Endorsed Product**

**TOUCHMATH** [www.touchmath.com](https://www.touchmath.com)

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## 50 Years of Explicit Multisensory Math



- **TouchMath** is an explicit, multisensory math program for students who struggle with foundational math and abstract concepts from preschool through transition.
- What began in a teacher's garage has grown into a widely used program with a much broader impact today.
- **TouchMath** has been implemented in classrooms across the United States for more than 50 years.
- Guided by current research and educator feedback, we continue to refine and expand our support for teachers and students.

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HAVE YOU HEARD THE NEWS?

## The science of math meets the science of reading

TouchMath is joining 95 Percent Group



**TOUCHMATH** FOR THE SCIENCE OF MATHS

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## The Science of Math: What research tells us works

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THE SCIENCE OF MATH

## The Science of Math Defined

The "science of math" is a body of research that identifies how students learn mathematics and which instructional practices are most effective.

- Integrates **conceptual understanding, procedural fluency, and problem-solving**.
- Relies on **data-driven decision making**, including screening, progress monitoring, and targeted intervention.
- Highlights the importance of **mathematical language, visual representations, and multiple representations** to support understanding.
- Emphasizes **explicit, systematic instruction** that clearly models strategies and builds skills step by step.

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THE SCIENCE OF MATH

## Explicit, Systematic Instruction

I Do	We Do	You Do
 <ul style="list-style-type: none"> <li>I model</li> <li>I explain</li> <li>I show the steps</li> </ul>	 <ul style="list-style-type: none"> <li>We solve together</li> <li>We discuss</li> <li>We check our thinking</li> </ul>	 <ul style="list-style-type: none"> <li>You practice</li> <li>You apply</li> <li>You work independently</li> </ul>

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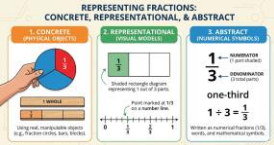
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THE SCIENCE OF MATH

## The CRA Approach: A research-based path to deeper math understanding



**REPRESENTING FRACTIONS: CONCRETE, REPRESENTATIONAL, & ABSTRACT**

**1. CONCRETE**  
PHYSICAL OBJECTS  
Use physical objects (e.g., fraction circles, blocks) to represent a fraction.

**2. REPRESENTATIONAL**  
VISUAL MODELS  
Use visual models (e.g., fraction bars, number lines) to represent a fraction.

**3. ABSTRACT**  
SYMBOLIC EXPRESSIONS  
Use symbols (e.g.,  $\frac{1}{3}$ ) to represent a fraction. Write an equation (e.g.,  $1 + \frac{1}{3} = \frac{4}{3}$ ) to represent a problem.

**Concrete-Representational-Abstract Approach (CRA)**

- A structured, evidence-based framework
- Moves students from hands-on learning to visual models and finally to symbolic reasoning.

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## Why Grades 3-5?

- Students in grades 3-5 are expected to move into more complex concepts, problem solving, and multi-step tasks
- Many students in these grades still have gaps in foundational areas such as number sense, fluency, place value, and basic operations
- When those foundational gaps are not addressed, grade-level content becomes increasingly difficult for students to access
- This product was developed to help teachers close foundational gaps while moving students toward deeper mathematical understanding

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# TouchMath for Grades 3-5

TouchMath's explicit, systematic multisensory math curriculum now extends to **Grades 3-5**. Delivering the same proven structure, resources, and proprietary manipulatives behind evidence-based success.

- Available in Print and Digital formats
- Includes proprietary manipulatives:
  - TouchFactions™ and Equivalence
  - TouchCubes™ for Measurement



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### INSTRUCTIONAL SCOPE

Grade 3	Grade 4	Grade 5
<b>Unit 1: Operations and Algebraic Thinking</b> <ul style="list-style-type: none"> <li>Develop multiplication and division skills</li> <li>Use visual models, skip counting, and arrays</li> <li>Explore related properties and more</li> </ul>	<b>Unit 1: Operations and Algebraic Thinking</b> <ul style="list-style-type: none"> <li>Use variables and write expressions</li> <li>Apply order of operations</li> <li>Explore factors, multiples, number patterns, and prime/composite numbers</li> </ul>	<b>Unit 1: Operations and Algebraic Thinking</b> <ul style="list-style-type: none"> <li>Apply order of operations and multiplication properties</li> <li>Use problem-solving strategies for complex real-world problems</li> <li>Analyze arithmetic patterns and generate information</li> </ul>
<b>Unit 2: Numbers and Operations in Base Ten</b> <ul style="list-style-type: none"> <li>Deepen understanding of place value and represent numbers in various forms</li> <li>Compare and order numbers</li> <li>Use rounding to add, subtract within 1,000</li> </ul>	<b>Unit 2: Numbers and Operations in Base Ten</b> <ul style="list-style-type: none"> <li>Extend place value to ten thousand</li> <li>Round numbers</li> <li>Build fluency in multi-digit operations, including related division and word problems</li> </ul>	<b>Unit 2: Numbers and Operations in Base Ten</b> <ul style="list-style-type: none"> <li>Deepen place value understanding (bridge, numbers and decimals)</li> <li>Compare and order with decimals</li> <li>Perform operations with decimals, including word problems</li> </ul>
<b>Unit 3: Numbers and Operations - Fractions</b> <ul style="list-style-type: none"> <li>Explore fractions using part-whole relationships, number lines, and visual models</li> <li>Compare and order Fractions</li> <li>Build understanding of fractions to guide basic division concepts</li> </ul>	<b>Unit 3: Numbers and Operations - Fractions</b> <ul style="list-style-type: none"> <li>Explore equivalent fractions</li> <li>Perform operations with like denominators and multiply fractions by whole numbers</li> <li>Connect decimals to place value and fractions</li> </ul>	<b>Unit 3: Numbers and Operations - Fractions</b> <ul style="list-style-type: none"> <li>Build fluency by comparing and ordering fractions</li> <li>Find common denominators</li> <li>Apply fraction operations to solve real-world problems</li> </ul>
<b>Unit 4: Geometry, Measurement, and Data</b> <ul style="list-style-type: none"> <li>Classify and analyze geometric shapes</li> <li>Solve measurement problems involving time, volume, and mass</li> <li>Interpret data using graphs, charts, and estimates</li> </ul>	<b>Unit 4: Geometry, Measurement, and Data</b> <ul style="list-style-type: none"> <li>Study symmetry, transformations and angles</li> <li>Compute area, perimeter, volume</li> <li>Interpret data using graphs and identify maximum, minimum, range, and mode</li> </ul>	<b>Unit 4: Geometry, Measurement, and Data</b> <ul style="list-style-type: none"> <li>Classify shapes and plot points on coordinate plane</li> <li>Measure length and mass, and find volume</li> <li>Interpret data using line plots and graphs</li> </ul>

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### PROGRAM COMPONENTS

**Teacher's Editions**

**Student Materials**

**Hands On Manipulatives**

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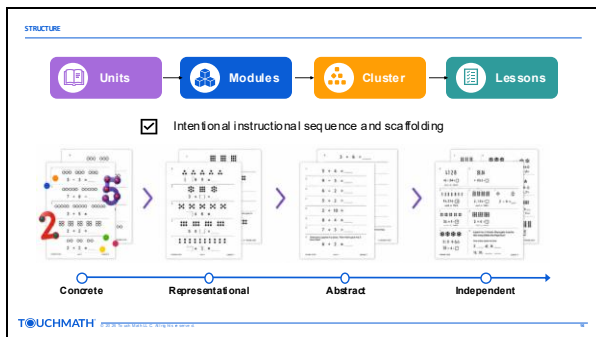
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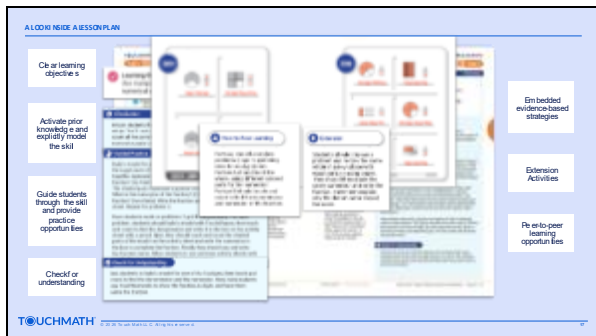
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## New Manipulatives for Grades 3-5

Hands-on proprietary manipulatives that transform abstract concepts into concrete, visual, and tactile learning experiences.

- TouchFractions™ and Equivalence
- TouchCubes™ for Measurement

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GRADES 3-5 MANIPULATIVES

## TouchFractions™ and Equivalence

**Key benefits:**

- Make fraction concepts visual and tangible
- Help students understand equivalence
- Support comparison of fractions
- Build connections between fractions, decimals, and percents
- Reduce cognitive load for struggling learners
- Encourage active learning and exploration
- Improve conceptual understanding rather than memorization



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### Manipulatives that show students how the math works.



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## TouchCubes™ for Measurement

**Key benefits:**

- Build arrays, model area and volume, and explore measurement concepts
- Support spatial reasoning and geometry skills
- Enhance understanding of volume and measurement
- Engage kinesthetic learners through hands-on instruction



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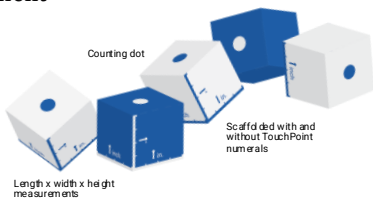
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### Building understanding of measurement and volume



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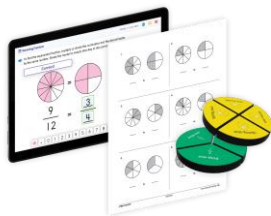
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### Connected Components of High-Quality Math Instruction

- Explicit teacher-led instruction introduces skills of early and systematically
- Hands-on manipulatives with embedded visual supports cement concrete learning to visual understanding
- Guided student activity sheets reinforce instruction and support practice
- Together, these components create a coherent pathway from modeling to understanding to independent application



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### A Comprehensive Solution for Mastery and Generalization

- Appropriate across settings
- Individualized, small group, and whole group instruction
- Flexible instructional delivery
- Explicit, teacher-led instruction
- Universal screening, progress monitoring, and student practice supported through technology



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# The Big Idea

TouchMath Grades 3-5 honors the legacy of TouchMath while expanding support for older learners. It gives teachers the tools to assess, teach, monitor, and help students build lasting mathematical understanding.

## A Complete Instructional Cycle That Drives Growth



### Assess

Determine student needs with purposeful assessments



### Teach

Deliver explicit, multisensory instruction that builds understanding



### Monitor

Determine student needs with purposeful assessments



### Respond

Differentiate and adjust instruction to meet student needs

## How TouchMath Grades 3-5 Supports Teachers and Students

### Builds on a legacy

Continues the proven TouchMath approach with expanded support for older learners.

### Teacher tools that make a difference

Clear lessons, routines, and supports that make planning and instruction practical and effective.

### Deeper understanding, lasting impact

Helps students develop number sense, fluency, and problem-solving skills they can use with confidence.

### Support for every learner

Built-in scaffolds, differentiation, and extension help all students grow at their own pace.

### Aligned & cohesive materials

Teacher guides and student pages work together to reinforce learning at every step.

### Focus on mastery & generalization

Students build skills they can apply across concepts, contexts, and future learning.



### Programs alone don't change outcomes.

A curriculum or product by itself is not enough to improve math achievement.



### Success depends on fidelity of implementation

When teachers implement with fidelity, students experience the full power of the program.



TouchMath Grades 3–5 provides the tools—teachers bring the program to life through high-quality implementation.

Consistent use. Explicit instruction. Meaningful practice. Ongoing monitoring. Targeted support. That's how students succeed.

### Professional Learning

Virtual and in-person options that support our educational teams with learning pedagogy, content, and technology connected to their lived experiences.



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### TouchMath Grades 3-5 Manipulatives Giveaway

**TWO LUCKY WINNERS**  
will win a set of the new  
Grade 3-5 TouchMath  
Manipulatives!



Touch Fractions™  
and Equivalence

Touch Cubes™  
for Measurement

Congratulations! Please send your shipping  
address to [tpattin@65percentgroup.com](mailto:tpattin@65percentgroup.com).

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### Unlock your free TouchMath for Grades 3-5 Sample

**Contents include:**

- Sample lessons for grades 3, 4, and 5
- Student Activity Sheets
- Student Fun Sheets
- Step-by-step lesson guidance with explicit, systematic instruction



Scan the code or use the URL  
to download the sample.

[www.touchmath.com/download/3-5-sample/](https://www.touchmath.com/download/3-5-sample/)

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TUESDAY, MAY 19 | 3:30 PM ET

## TouchMath: Friends of CASE Webinar

FREE WEBINAR

### What counts as SDI in math?

Moving beyond accommodations  
May 19 | 3:30 PM ET

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Attendees will leave with:

- ✓ A clear, working definition of SDI in math that meets documentation and compliance expectations
- ✓ Practical examples of how to adapt content, methodology, and delivery for students with diverse learning needs
- ✓ Strategies for applying explicit, multisensory math instruction as a vehicle for SDI
- ✓ Tools to help distinguish SDI from general differentiation in IEP planning and instructional practice

Scan the code or use the URL to register to day!  
<https://bit.ly/TouchMathFriendsOfCASE>

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