

# The DMTI Academy Scope & Sequence

Course materials are designed to reinforce the instructional practices emphasized in DMTI's professional development workshops and provide real classroom examples of the Five Core Practices.

Recommended **prerequisite courses** for all learners:

Begin here

## DMTI 1

### Five Core Practices

Learn **DMTI's research-based framework** built on five powerful practices that deepen understanding, strengthen problem-solving, and raise achievement in any classroom.

## DMTI 2

### Six Predictors of Math Ability

Discover the **Six Predictors of Math Success** and see how skills like spatial reasoning, measurement, and transitivity unlock deeper mathematical understanding.



»» Choose your path based on your goals...

## DMTI 3

Number Sense

## DMTI 4

Addition and Subtraction

## DMTI 5

Addition and Subtraction Word Problems

## DMTI 6

Multiplication and Division

## DMTI 7

Multiplication and Division Word Problems

## DMTI 8

Fractions

## DMTI 9

Fluency

When instruction goes beyond the script of a teacher's guide and helps students see patterns, use visual models, and explain their thinking, they build real mathematical understanding. That's what leads to confidence, problem-solving skills, and the ability to apply math in new situations.

More  
Information



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## Scope & Sequence

After completing the foundational prerequisite courses, learners are empowered to choose a learning path based on their specific goals.



### DMTI 3

#### Number Sense, Counting, and Place Value

- Experience place value through hands-on, visual, and real-world activities that reveal how numbers truly work.
- Gain ready-to-use strategies to build number sense and confidence with whole numbers and decimals.

### DMTI 4

#### Addition and Subtraction

- Reimagine addition and subtraction by exploring models, subitizing, and precise math language that make concepts meaningful.
- Gain practical strategies from real classroom examples and videos to boost reasoning and higher-order thinking in your students.

### DMTI 5

#### Word Problems for Addition and Subtraction

- Master different types of word problems and learn how to guide students to the right strategies and reasoning.
- See research in action through classroom videos and hands-on activities
- Build a toolkit to help students succeed in any problem-solving situation.

### DMTI 6

#### Multiplication and Division

- See multiplication and division come alive through real-world examples and visual models.
- Take away practical strategies to deepen understanding and boost student confidence.

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## DMTI 7

### Word Problems for Multiplication and Division

- Learn to unpack multiplication and division word problems and reveal the math hidden in real-world contexts.
- Explore visual models and classroom strategies that help students understand, reason, and solve problems confidently.

## DMTI 8

### Fractions

- Experience fractions hands-on, visually and symbolically, using real-world problems to make concepts come alive.
- Gain practical strategies to help students reason, build models, and solve fraction problems with confidence.

## DMTI 9

### Developing Fluency in Math

- Discover strategies to help students think flexibly with numbers and build deep mathematical fluency.
- Learn practical approaches to move students beyond memorization toward confident and efficient problem-solving.

Transform learning with insights grounded in decades of research. Experience the professional development model educators trust—one credited with producing breakthrough, record-setting gains in achievement.

**More  
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