

Session Descriptions

June 24: *Numbers to 10* (Kindergarten & First Grade)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Number Recognition
- The Number Line to 10
- Number Bonds
- Adding & subtracting within 10

June 24: *Numbers 11-100* (Grades 1 & 2)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Place Value
- Adding and Subtracting within 100

June 30: *Foundations of Multiplication and Division* (Grades 2 & 3)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Connecting repeated addition to multiplication
- Multiplying and Dividing with Problem Solving contexts
- Arrays
- Times Tables
- Division with Single-Digit Divisors

June 30: *Algorithms* (Grades 2 & 3)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Place Value within 100
- Place Value within 1,000
- Strategies for building conceptual understanding and fluency with the addition, subtraction, multiplication, and division algorithms.

July 1: *Money & Time* (Grades 1-3)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Connecting Place Value Understanding to dollars and cents
- Adding, Subtracting, Multiplying, and Dividing with Money
- Telling time
- Elapsed time

July 1: *Fractions & Decimals* (Grades 2-5)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Fractions as part-whole relationships
- Comparing fractions
- Adding and subtracting with like denominators
- Equivalent Fractions
- Adding and subtracting fractions in which one denominator changes
- Mixed Numbers and Improper Fractions
- Decimals to the hundredths place

July 8: *Geometry* (Grades 3-5)

The workshop will address the following topics using a concrete, pictorial, abstract approach:

- Angles
- Measuring Angles
- Missing Angles
- Triangles
- Quadrilaterals

July 8: *Tools to Deliver the Curriculum* (All Grades)

Each tool that is listed below applies to all elementary grades and consists of a

laddered instructional approach, i.e. engaging the weakest students, while challenging the strongest. Although the tools will be presented through the context of Singapore Math, they can effectively complement any math curriculum.

- Counting on the Number Line
- Whiteboard Exchanges
- Sprints
- Deco Trees
- Problem Solving Ladders

July 14: *Bar Modeling* (Grades 2-6)

The workshop will address the following problem-solving topics:

- Addition & Subtraction
- Multiplication & Division
- Fractional topics
- Ratios
- Percent