



EastWestMath™ L.L.C.
World-class Instruction & Resources

7th Annual Singapore Math® Summer Institute

Presenters:

Makoto Yoshida, Ph.D.

Mary Leer, Ph.D.

Kathleen Wallace, M.S.

08/25 & 08/26

8:30 AM to 3:30 PM

Cornell ILR Conference Center NYC
570 Lexington Ave., 12th Fl. NY, NY 10022



K-2 Program and Schedule

- 1 Singapore Math Essentials
- 2 Activities & Games for Understanding Numbers
- 3 Multi-Digit Addition & Subtraction
- 4 Problem-Based Instruction with CPA
- 5 Enrichment for Advanced Learners
- 6 Activities & Games for Fluency & Assessments

Schedule Day 1

Lunch is served from
12:00 PM to 12:45 PM

Morning:

8:30 AM to 9:00 AM

Registration

9:00 AM - 12:00 PM

Singapore Math Essentials

Afternoon: Choice of 2 Workshops

12:45 PM - 3:45 PM

Activities & Games for Understanding
Numbers, K-1

Or

Multi-Digit Addition & Subtraction, Gr. 2-3

Schedule Day 2

Lunch is served from
11:45 AM to 12:30 PM

2 / 2

Morning:

8:30 AM to 8:45 AM

Registration

Morning: Choice of 2 Workshops

8:45 AM - 11:45 AM

Problem-Based Instruction with CPA

Or

Enrichment for Advanced Learners

Afternoon:

12:30 PM - 3:30 PM

Activities and Games for Fluency & Assessments

Description of our workshops

PRACTICAL TEACHING STRATEGIES THAT YOU CAN USE RIGHT AWAY

1

SINGAPORE MATH ESSENTIALS

This session will focus on helping participants understand the essential ideas of Singapore Math, CPA pedagogy and structure of Singapore Math materials, including Math in Focus and Dimensions Math. Teachers will learn how to focus lessons on the core concepts of whole numbers and calculations that lead to development of strong number sense, mastery and fluency. Participants will learn how to use the materials and plan lessons.

- Philosophy of mathematics teaching in Singapore
- Characteristics of Singapore Math teaching & learning
- Constructivist pedagogy, CPA, bar models
- Essential concepts that lead to mastery and fluency
- How to use Math in Focus & Dimensions materials
- How to plan lessons & connect to CCSS & NGS
- Pacing & assessments will be discussed

2

ACTIVITIES & GAMES FOR UNDERSTANDING NUMBERS

Have you ever been perplexed at how easily and quickly students appear to backslide and forget basic math facts, even after they have shown mastery on timed tests? In this hands-on workshop, participants will learn how to engage students in a meaningful practice of math facts that leads to long-lasting mastery and fluency. Teachers will engage in multiple games and fun activities that help students develop understanding of numbers, including counting and cardinality.

Participants will use East West Math flash cards to play games in teams, collaborate and engage in activities. Teachers will identify strategies designed to increase learner engagement. Participants will also learn effective formative and summative assessment strategies.



Description of our workshops

PRACTICAL TEACHING STRATEGIES THAT YOU CAN USE RIGHT AWAY

3

MULTI-DIGIT ADDITION & SUBTRACTION

This session will focus on teaching strategies and activities designed to help students develop understanding of place value system and calculation techniques.

Participants will learn how to:

- Use manipulatives to develop understanding of place value system
- Use relative relationship of numbers to compare multidigit numbers (e.g., 1,000 is made of 10-hundreds or 100-tens)
- Help students develop mental calculation strategies
- Help students understand the process of multi-digit addition and subtraction by connecting manipulatives to standard algorithm
- Engage students in activity and games that foster understanding of place value system

4

PROBLEM-BASED INSTRUCTION WITH CPA

This session will focus on the effective use of CPA approach in helping students develop problem solving strategies.

Participants will learn how to:

- Use CPA approach in different problem situations (add to, take from, put together, take apart, compare, etc.)
- Facilitate student discussions that promote learning and deep understanding of numbers
- Focus group discussions on problem solving
- Connect manipulatives and bar models to math concepts
- Use math journals



Description of our workshops

PRACTICAL TEACHING STRATEGIES THAT YOU CAN USE RIGHT AWAY

5

ENRICHMENT FOR ADVANCED LEARNERS

This session will focus on meeting the needs of advanced learners in math class. We will begin by looking at integrating differentiation into the Singapore lesson model, and continue with specific activities for independent practice time.

Participants will learn to:

- Move beyond packets to integrated enrichment
- Provide greater depth and complexity, rather than just “moving ahead”
- Utilize the math journal to promote deep thinking
- Integrate extended math projects
- Incorporate games and puzzles into math class

6

ACTIVITIES AND GAMES FOR FLUENCY & ASSESSMENTS

This hands-on session will focus on exploring engaging games and activities of teaching addition and subtraction with & without regrouping. Participants will use the East West Math color-coded flash cards to play games in teams, identify patterns, organize related groups of facts, collaborate during activities and engage in assessments.

Participants will learn:

- Games and activities for engaging instruction and practice
- How to help learners of different style and abilities practice math facts to mastery
- How to use visual manipulatives to help students learn math facts
- How to help students become fluent in calculating mentally
- The East West Math color-coded assessment method



WHAT THEY SAY ABOUT US

- “ *I can't thank you enough for all of the wonderful information and resources you provided our teachers with to get started.*
- **Millburn Township Schools, NJ**



- “ *As always, another fabulous Institute.*
- **The Country School, CT**

- “ *Thorough, clear and well presented.*
- **Bronxville School District, NY**

