

STRENGTHENING LEADERSHIP AND TEACHING FOR LEARNING



# Visual Math Conversations to Deepen Conceptual Understanding

Grades K-2: October 21 & November 18, 2010  
Grades 3-5: November 30 & December 16, 2010  
Brookfield

## Two Full Day Sessions for each Strand

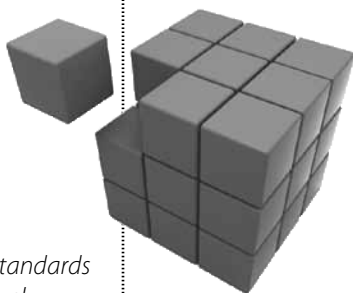
*Grades K-12: Addition,  
Subtraction, Place Value*

*Grades 3-5: Multiplication  
& Division, Decimals,  
Fractions*

*The draft Common Core State Standards for Mathematics stress conceptual understanding of key ideas by continually returning to organizing principles such as place value or the laws of arithmetic to structure those ideas. But what does mathematical understanding look like? One hallmark of mathematical understanding is the ability to justify, in a way appropriate to the student's mathematical maturity, why a particular mathematical statement is true or where a mathematical rule comes from. The student who can explain the rule understands the mathematics. Mathematical understanding and procedural skill are equally important, and both are assessable using mathematical tasks of sufficient richness.* —Common Core Standards for Mathematics, Draft, 2010

## Questions?

www.wascd.org  
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262.242.3771



Picture a classroom where students ask for opportunities to solve math word problems, have a deep understanding of key math terms, and create challenge problems for each other

to solve. Their teachers make elusive concepts clear and lay a solid foundation for later math thinking.

During this two-day workshop, teachers will learn and apply a visual problem-solving method designed to develop deep understanding of equality, place value, fractions and mathematical problem solution using whole numbers, decimals and fractions.

Spend two professional days together with your colleagues learning how to create robust math understanding in your classroom. You will get ideas and tools that can strengthen your existing math program while upgrading to the increased emphasis on written and mental problem solving found in the new Common Core State Standards for Mathematics.

*Presented by Dr. Rosalynn Kiefer, WASCD Past President and former Director of Instruction. She is currently an adjunct instructor at Alverno College.*

## Participants will:

- Utilize a visual logic process for solving most math word problems (Singapore and Hong Kong math techniques)
- Determine key math vocabulary for deep conceptual processing thinking (Marzano's Academic Vocabulary)
- Use key vocabulary to structure conversations to deepen mathematical understanding (Common Core math vocabulary)
- Apply the process to your existing math materials
- Build understanding of math trouble spots and how to avoid them
- Review/analyze Common Core Standards with current math instruction
- Learn how to present concepts in the simplest, clearest way; the appropriate sequential order for developing math skills; what students find difficult; and what errors they are likely to make.
- Receive a copy of *Elementary Mathematics for Teachers* by Parker & Baldrige, 2004.



# Registration Form

## Visual Math Conversations

- |  |  |              |
|--|--|--------------|
| <b>Registration Fee</b><br>(includes all workshop materials and book)<br>(October 21 & November 18; November 30 & December 16) | <input type="checkbox"/> <b>K-2:</b> Oct. 21 & Nov. 18                                     | <b>\$299</b> |
|  | <input type="checkbox"/> <b>Gr. 3-5:</b> Nov. 30 & Dec. 16                                 | <b>\$299</b> |
|  | <input type="checkbox"/> <b>All 4 sessions</b>   | <b>\$549</b> |
| <b>Renew membership or<br/>join Wisconsin ASCD</b>   | <input type="checkbox"/> <b>Membership Dues</b>  | <b>\$ 75</b> |
|  | <input type="checkbox"/> <b>Late Fee</b> (after Oct. 14 for K-2; after Nov 22 for Gr. 3-5) | <b>\$ 25</b> |

**TOTAL**

### Payment Information

**PO #** \_\_\_\_\_  **Check enclosed #** \_\_\_\_\_

**Charge:** Cardholder Name (as it appears on card) \_\_\_\_\_

Card # (MC or Visa) \_\_\_\_\_ Exp. Date \_\_\_\_\_ Three-Digit Security Code \_\_\_\_\_

Billing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### Participant Information

Please print clearly so name badge will be accurate. To register a team with one payment source, attach a copy of this form for each attendee. Phone numbers are only used in case of emergencies. E-mails are used for program changes and confirmations.

**Name:** \_\_\_\_\_

**School/District/Agency:** \_\_\_\_\_

**Job/Role:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**E-mail** \_\_\_\_\_

Return your completed registration form by fax or mail. Make a copy for your records.

**Fax 262.242.1862**

WASCD  
210 Green Bay Rd  
Thiensville WI 53092

### Details

Registration Terms	Cancellation Policy	Location & Schedule	Food and Beverage
Registrations are accepted on a full-payment, first-come, first-served basis only. Confirmations are e-mailed about a week before the program. Please call the WASCD office before the program if you did not receive a confirmation to determine your registration status. For all cancellations, there is a \$25 processing fee. There are no refunds 3 days prior to or after the program.  <b>On-Site Registration:</b> When space is available, you may register on site for an additional \$25 fee.	WASCD reserves the right to move or cancel meetings because of low registration. That is why it is important to register early. In the unlikely event of a cancellation, all registrants will be notified and will receive full refunds.  <b>Special Needs:</b> Please notify WASCD of any special needs at the time you register.	<p align="center"><b>Doubletree Hotel Milwaukee-Brookfield</b> 18155 Bluemound Rd, Brookfield WI 53045 262.792.2323</p> <p>From I-94 going west: Exit Moorland Rd. North to the first major intersection (Hwy 18 Bluemound Rd). Left on Hwy 18 for 1.5 miles. Hotel on left. From I-94 going east: Exit Hwy 18 Bluemound Rd. Go east for 2.5 miles. Hotel on right. Look for the Brookfield Corporate Center entrance marked by lots of flags.</p> <p align="center"><b>October 21 &amp; November 18 November 30 &amp; December 16</b></p> <p align="center"><b>8:30 a.m. – 3:00 p.m.</b> (check in: 8:00 a.m.)</p>	All institutes include continental breakfast and refreshment breaks. You will have one hour for lunch on your own.  <b>Lodging:</b> Participants are responsible for securing their own lodging. We have made arrangements for a special rate of \$99. Call or e-mail Leah Ruesink (262) 792-2323 leah.ruesink@hilton.com and mention WASCD.