

Math Grant Information*

- * Teachers will receive a stipend of \$100 for completing the Survey of Enacted Curriculum and \$100 for participating in the orientation session.
- * Each institute consists of four days of standards based, hands-on learning and reflection. Teaching materials, handouts, lunch, and accommodations are provided at no cost to districts. Daily stipend of \$100.
- * Three days of ongoing professional development are scheduled — Fall, Winter and Spring. Districts will be reimbursed for substitutes.
- * Onsite coaching and support as you apply what you learned to your work with students in the classroom.
- * Resources and funds provided for a Family Math Event in your district.
- * A chance to network with other dedicated math teachers in CESA 5.
- * Wisconsin Math Council Membership and Green Lake Math Conference

Join us in the final year of our grant!

*MSP Math Grant Participating Districts:

Almond-Bancroft, Auburndale, Cambria-Friesland, Fall River, Lodi, Montello, Necedah, New Lisbon, Pardeeville, Pittsville, Port Edwards, Portage, Princeton, Randolph, Rio, Rosholt, and Tri-County.

Past years' participants had this to say about improving student learning...

"...thinking about how I present info as well as questioning and assessment was key"

"I learned to foster student learning through hands-on activities and critical thinking skills."

"This has really energized me about math instruction, and I am now ready to energize my students!"

"By doing the hands-on activities myself, I have a better understanding of the type of thinking students have to do. This will help me break concepts down, and simplify them for students."

Focus on Learning!

Kari Augustine, Curriculum Specialist, CESA 5
email: augustinek@cesa5.k12.wi.us
(608) 742-8814 X241 or cell (608) 697-4086

For 5-8th grade teachers

Summer Weeks:
July 27-30, 2009
August 3-6, 2009



Middle School Math Institute

School Year Meetings:

- * 732: October 15, 2008 ~ Comfort Suites, Portage
- * 734: January 8, 2009 ~ CESA 5, Portage
- * 733: May 6, 2009 ~ Wisconsin Math Council, Green Lake

Contact Kari Augustine for more information:
augustinek@cesa5.k12.wi.us

Register on the CESA Portal at <http://www.mycesa.k12.wi.us/> or contact Tamara Kreklow for registration (608) 742-8814 X283.

▶ Math Fun in the Summer Time!

With active learning at the center, teacher-participants will use rich tasks to examine key understandings and benchmarks in strands from NCTM:



▶ Number & Operations

Understanding numbers, representations, relationships, and number systems; the meanings of operations and relationships among those operations; and reasonable estimation and fluent computation. This strand includes the sometimes problematic concept of fractions.

▶ Problem Solving & Reasoning

Build new mathematical knowledge through problem solving; solve problems that arise in mathematics and in other contexts; apply and adapt a variety of appropriate strategies to solve problems; monitor and reflect on the process of mathematical problem solving.

TECHNOLOGY INTEGRATION

Technology for teaching and learning is an important part of our grant. To date we have explored graphing calculators, virtual manipulatives, the creation of a wikispace, and the free program called GeoGebra.

▶ Visit the Math Wikispace Resource



CESA 5 Math Grant wiki:

<http://cesa5mathscience.wikispaces.com/>

Your Instructors

Jodean Grunow has taught all grade levels during her career, many in middle school mathematics in Dodgeville where she chaired the MS mathematics program. She has also been a Mathematics Consultant for DPI where she worked on the project, "Mathematics for the New Millennium."

Jodean Grunow, PhD
UW-Platteville



Tim Deis is an associate professor of mathematics at UW-Platteville. He returns for a second summer with our math grant. In 2002 he received the Tau Beta Pi award for Excellence in Teaching.



Tim Deis, PhD
UW-Platteville

Kari Augustine is a former classroom teacher, CESA 5 curriculum specialist, and longtime math lover. She enjoys working with teachers and students of all ages.

UW-Platteville Credit Option

Teachers may register for UW-P credits for either or both of the summer institutes. Credits include an action plan component designed to help you apply what you have learned in your classroom and offer you the support of an instructor and math grant colleagues throughout both Fall and Spring semesters.

- * Teaching 6530, MSMT7: Number and Operations
- * Teaching 6530, MSM8: Problem Solving and Reasoning
- * Topics: Fall (1 cr.) and Spring (1 cr.) required for either.

Courses may be taken together for 4 or 6 credits at \$100 per credit. Tuition fees are due upon registration in June.

Learner Outcomes

Participants will:

- * Experience math in collaboration with others.
- * Communicate their thoughts and build on one another's ideas and experiences.
- * Identify student misconceptions through formative assessment and intervene to provide different instruction to promote understanding.
- * Use tools (manipulatives, computers, and calculators) to examine and represent ideas and to extend thinking.
- * Understand the important ideas and the interrelatedness of those ideas from geometry, patterns and functions, logic, number, measurement, probability, and data collection and analysis — the domains that form the core of mathematics.
- * Work with their own curriculum, and state and national standards to identify the big ideas in number and operations and problem solving, and ways to organize instruction to improve student learning.
- * Have fun doing math!

Who Should Attend?

The grant was written to focus on **classroom, mathematics, and special education teachers** who teach students in **grades 5-8. Math coaches and Title 1 teachers** responsible for mathematics instruction and intervention are also invited!