



ONLINE



**TEACHERS
DEVELOPMENT GROUP**

A non-profit organization
dedicated to improving
all students' mathematical
understanding and achievement
through meaningful, effective
professional development

Building Problem Solving in Grades K-4

ABOUT THIS ONLINE WORKSHOP

Students in grades K–4 are faced with new, unfamiliar problems in school each day—many of them in math lessons. How do these students use their existing knowledge to make sense of new problems, and what strategies do they use to solve them? In this workshop, participants will:

- Learn what it means to do “math problem solving” activities and consider the benefits of integrating these types of problems into their elementary math instruction
- Discuss specific problem solving techniques—from “guess and check” to “create a model”
- Analyze examples of students’ work to learn about their mathematical thinking and the strategies they use when faced with unfamiliar math problems
- Learn strategies for asking questions that promote problem solving skills and conduct a small group interview with students to practice these strategies

PARTICIPANTS

Grades K–4 teachers, math coaches, curriculum and professional development specialists, special educators, and instructional assistants. Participation by school/district teams is encouraged. To complement the online work, teams may wish to meet face-to-face to explore course math tasks and/or readings and assignments.

INSTRUCTOR

CAROLYN CHOI is a Mathematics Consultant for Teachers Development Group, with over 15 years experience teaching and coaching in grades K–6. She has worked for school districts on both coasts and now makes her home in Oregon. She has led implementation of new curricula in many districts and has a special interest in working with teachers to integrate best practices in mathematics with whatever curriculum they happen to use.

DATES

September 29 – November 9, 2010

OPTIONAL UNIVERSITY CREDIT

Mth 810, Portland State University, 2 quarter-hours graduate credit. Pay \$110 for optional PSU credit at first workshop session.

QUESTIONS

Contact Julie Fredericks
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Local Phone, 503-650-1914
Toll-free, 877-650-1914

COST AND REGISTRATION

\$275 per person if registration received on or before September 15, 2010.

\$295 per person for registrations received after September 15, 2010.

Register online, www.teachersdg.org, prior to September 29, 2010

Cancellations: If you must cancel, a substitute is welcomed. Otherwise, \$50 is nonrefundable; all additional payments are fully refundable prior to the workshop start date, non refundable thereafter.