



ONLINE



**TEACHERS  
DEVELOPMENT GROUP**

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

# Using Models to Understand Fractions in the Elementary Classroom

## ABOUT THIS ONLINE WORKSHOP

This workshop provides an opportunity for elementary grades educators to explore how mathematical models can be used to promote a deep understanding of fractions and fractional relationships. All too often, students are taught mechanical ways that don't support students in making sense of fractions. This highly interactive workshop

is premised on the belief that students can come to understand fractions in a number of different ways

provides a variety of conceptual models and tools for developing understanding of fractions and fraction operations (e.g., number line, Cuisenaire Rods, pattern blocks, and area with nonstandard and standard shapes)

includes a variety of textual readings, applets, and videos combined with weekly on-line discussion forums

A relevant class project will support you in incorporating meaningful models for fractions in your everyday instruction.

## PARTICIPANTS

Grades 1-5 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.

## SITE

Online

## DATES

April 7 - May 25, 2010

## INSTRUCTORS

**MIKE WILD** and **DIANE STONE** both have over 30 years of experience teaching mathematics, Diane as an elementary grades teacher and Mike across all grades. They have a passion for working with teachers at improving the practice of teaching and the content knowledge needed for teaching mathematics. Both were faculty members for the highly successful Oregon Mathematics Leadership Institute, a 5-year National Science Foundation project to deepen K-12 teachers' knowledge of mathematics and school leadership and currently work as Mathematics Consultants for Teachers Development Group.

## OPTIONAL UNIVERSITY CREDIT

Mth 810, Portland State University, 3 quarter-hours graduate credit. Pay \$165 for optional PSU credit at first workshop session.

## QUESTIONS

Contact Julie Fredericks  
Email, [julie.fredericks@teachersdg.org](mailto:julie.fredericks@teachersdg.org)  
Local Phone, 503-650-1914  
Toll-free, 877-650-1914

## COST AND REGISTRATION

\$300 per person if registration received on or before March 24, 2010.

\$350 per person for registrations received after March 24, 2010.

Register online, [www.teachersdg.org](http://www.teachersdg.org), prior to March 24, 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.

