



ONLINE



**TEACHERS  
DEVELOPMENT GROUP**

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

# Getting Ready for Algebra by Using Virtual Manipulatives

## ABOUT THIS ONLINE WORKSHOP

This workshop is structured around the 12 content and skills readiness indicators developed by the Southern Regional Education Board (SREB) working with a panel of teachers and experts from the Educational Testing Service (ETS). Participants will be introduced to a collection of virtual manipulatives that will help curriculum planners and classroom teachers meet the demand to prepare students for Algebra I.

Through readings, video, online discussion boards, engaging mathematics problems, and a relevant class project this workshop will enable participants to:

- Identify the essential content and process readiness indicators for student success in Algebra I
- Identify virtual manipulatives and interactive applets that target the essential skills and knowledge aligned with each of the content readiness indicators
- Analyze virtual manipulatives and interactive applets according to given criteria including: alignment with mathematics learning goals, instructional strengths and limitations, ease of use, and availability of support materials
- Use virtual manipulatives and interactive applets in activities that target the essential skills and knowledge required to meet the essential algebra readiness indicators
- Develop activities that use virtual manipulatives and interactive applets to target the essential skills and knowledge required to meet the essential algebra readiness indicators

## PARTICIPANTS

Grades K-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.

## INSTRUCTORS

**MARIE FRANZOSA** and **DIANNE HART** both teach mathematics at Oregon State University, and have a special interest in mathematics for elementary teachers and the development of online professional community. 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.

## DATES

April 7 - May 25, 2010

## 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 April 7, 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.