



Join us for **TODOS LIVE!**

A series of interactive on-line professional development sessions for members

Multiplication from Concrete to Abstract

Heather Navarro and Noel Villegas present a two-part session focusing on conceptual understanding of multiplication in grades 3-5.

Part 1 Investigating with Concrete Models

Thursday, February 24, 2011

8:30pm EST (5:30pm PST)

Learn how to analyze student work samples and dialogue to reveal English language learners' conceptual understandings of 2-digit by 2-digit multiplication.

Part 2 Building the Bridge to Abstract Understanding

Thursday, March 10, 2011

8:30pm EST (5:30pm PST)

This session will demonstrate a practical approach to using student work and dialogue in building a bridge to help students move from concrete models to abstract understanding.

Target Audience

Classroom teachers, coaches, administrators, curriculum coordinators, professional developers, and university/college faculty.

Registration Information

A limited number of seats are available so please register as soon as possible.

Part 1: <https://student.gototraining.com/218m2/register/8979111462795046400>

Part 2: <https://student.gototraining.com/218m2/register/8567709396022475008>

After registering you will receive a confirmation email containing information about joining the training. If you are unable to attend both parts, you can access the recording of the sessions through the TODOS website.

Technology Requirements

We will be using GoToTraining for these sessions. You will need a computer with a speaker and microphone or a computer and a separate telephone. For *Frequently Asked Questions* regarding GoToTraining, please go to http://www.gotomeeting.com/fec/training/online_training_software_support.

TODOS LIVE! is a series of online professional development sessions designed by TODOS leaders to facilitate state and national conversations and on-going learning and communication experiences that connect the mission and goals of TODOS and the five NCTM foundational priorities: Equity; Curriculum, Instruction, and Assessment; Professional Development; Research; and Advocacy. These sessions are aimed at increasing the equity awareness of educators and their ability to foster students' mathematical proficiency in rigorous and coherent mathematics. **TODOS LIVE!** is sponsored, in part, by a grant from NCTM's Mathematics Education Trust (MET).

Additional sessions are scheduled for March and April. Check the TODOS homepage for more information.



Heather Navarro is currently a 4th grade ELD teacher at Galveston Elementary in the Chandler Unified School District. She has been teaching for nine years and has a specialization in Mathematics.



Noel Villegas has taught for 6 years at Galveston Elementary, 4 years in 5th grade, one in 3rd, one in 4th. He has a Bachelor's Degree in Elementary Education and a Master's Degree in Curriculum and Instruction.