

**UCSB Department of Mathematics
Center for Mathematical Inquiry
Workshop for grade 2-3 Teachers, 2008**

**Number Sense and the Landscape of Learning:
The Open Number Line within the Context of Measurement and
the Early Development of Multiplication**

July 2 and 3, 12:30-5:00

Workshop leader: Bill Jacob, UCSB Mathematics Department

This workshop introduces the landscape of mathematical development in number and operation in grades 2-3 including the representations that children need to develop addition, subtraction and early multiplication strategies. The workshop is introductory in nature and participants will leave with two *Contexts for Learning Mathematics*¹ instructional units that they can use at the beginning of the school year. Follow-up workshops will be organized in the fall for participants who want to continue to collaborate on this work with other Contexts units. Participants from previous years' workshops are especially welcome and will find this experience productive because of its focus on the instructional materials.

Participating teachers will receive a \$150 stipend for the two-afternoon institute.

The emphasis of the workshop will be to examine student thinking through video and their written work. Then participants will work in teams learning to use the Contexts units. The units also include mini-lessons that can be used throughout the year to help students develop computational fluency.

The units studied in the is workshop are:

Measuring For the Art Show: Addition on the Open Number Line

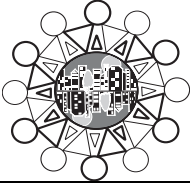
Measuring For the Art Show builds on children's early addition and measurement strategies in developing the open number line where they represent addition and subtraction strategies.

Groceries Stamps and Measuring Strips: Early Multiplication

Grocery Stamps and Measuring Strips introduces fundamental multiplication strategies and representations including arrays, skip counting, and using the number line.

The workshop will be limited to 20 participants. All workshop sessions will be held at UCSB in Trailer 940, Room 1010 and parking passes will be provided to participants. An application is attached. **Applications are due by June 10, 2008.** This workshop is funded in part by a grant from the Educational Advancement Foundation. For more information contact Bill Jacob at jacob@math.ucsb.edu or Monica Guzman at monica@math.ucsb.edu.

¹ The Contexts for Learning Mathematics units have been adopted by the California State Board of Education for instructional use and are available through Harcourt or Heinemann. They are not a full program, however each unit provides two to three weeks of material to help students develop understanding and computational fluency in number. The Contexts units can be ordered individually and there is no requirement that other Harcourt materials be used.



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APPLICATION

Note: Participants are welcome to attend two workshops. However, you must submit two applications if you desire to do so.

Name: _____

School: _____ Grade: _____

Home Mailing Address: _____

City: _____ Zip Code: _____

Home Telephone: _____

E-mail: _____

Mail, Fax or email application to:

Monica Guzman
Department of Mathematics
University of California, Santa Barbara
Santa Barbara, CA 93106
Fax (805) 893-2385
monica@math.ucsb.edu

This project is funded by a grant from the Educational Advancement Foundation. For more information email Bill Jacob at jacob@math.ucsb.edu. Space is limited.
Application Deadline: June 10, 2008. Applicants will receive program information and parking permits prior to the start of the program.