

TEKS-Aligned Concepts of Unit and Representational Fluency in K-8 Mathematics

A Professional Development Program in Mathematics Education

2012-2013 Teacher Quality Grant
The University of Texas at Arlington
<http://mathed.uta.edu/TQ>

UT Arlington's graduate program in K-8 mathematics education

This program consists of professional development courses offered through the Mathematics Department. *The courses are intended to help elementary and middle grades mathematics teachers improve their content knowledge in ways that will impact their understanding of mathematics, as well as impact their classroom teaching.* Courses can be taken *à la carte* as a special student, or as part of the M.Ed. program in Curriculum & Instruction. Fall and spring courses meet one evening per week for 16 weeks; summer courses meet 16 afternoons in May/June.

Program Calendar

Fall 2012: MATH 5375 Constructing Whole Numbers and Operations in K-8 Mathematics

Spring 2013: MATH 5376 Constructing Rational Numbers and Operations in K-8 Mathematics

Summer 2013: MATH 5377 Algebraic Reasoning in K-8 Mathematics



UT Arlington Teacher Quality Project

A grant from the THECB has supported a cohort of teachers participating in UT Arlington's K-8 mathematics education graduate program since June 2006. **A new grant supports approximately 21 participants for the 2012-2013 program year (August 2012-June 2013).** Benefits and responsibilities are described below.

In each course, participants...

- Work together to solve math problems that evoke issues analogous to those faced by K-8 students
- Discuss articles and case studies that present new ideas or research on children's mathematical thinking
- Analyze their own, & others', students' mathematical thinking in detail
- Exchange ideas & discuss episodes from their own teaching

Participant Benefits

Upon completion of UTA course requirements, 2012 - 2013 grant participants will receive:

- **9 hours (3 courses) of graduate credit in K-8 mathematics education** (tuition paid by FWISD and AISD *for Title I campus teachers*, course fees paid by UTA), applicable to an M.Ed.
- **books valued at over \$150, and classroom manipulatives valued at over \$200**
- **\$375 stipends** for completion of each course
- reimbursements for local travel and (for summer) limited childcare support
- **opportunities to build and enhance relationships with other local mathematics teachers**

Participant Responsibilities

Each grant participant agrees to do all of the following:

- participate fully in both the summer and academic-year courses, including completing required assignments and action (classroom) research
- facilitate the scheduling of classroom observations and other data collection by project staff for purposes of evaluating the program's impact (*not* to evaluate participants)
- implement project objectives in your classroom, including regular analysis of student work



To apply

Complete applications must be received by 5 PM on Friday, May 18, 2012. Complete applications include:

- (1) an online application form at <http://mathed.uta.edu/TQ>,
- (2) a 2-page signature form (available at <http://mathed.uta.edu/TQ>) which must be mailed or faxed in, and
- (3) notifying your ISD's UTA liaison office (usually the mathematics department) of your intent to participate.

Incomplete applications cannot be considered. In accordance with funding agency guidelines, preference will be given to teachers with high numbers of students from underrepresented groups, to teams of teachers from the same campus, and to teachers with fewer mathematics courses in their academic backgrounds.

If selected for the program, teachers will need to complete application to UTA's Graduate School (see grad.uta.edu for deadlines and details).

For more information please visit the program web site (<http://mathed.uta.edu/TQ>), or contact Dr. Theresa Jorgensen (Project Director, jorgensen@uta.edu, 817-272-1321) or Dr. Christopher Kribs Zaleta (Project Co-Director, kribs@mathed.uta.edu, 817-272-5513). Our fax: 817-272-5802.