

High School Representational Connections in Algebraic Reasoning A Professional Development Program in Mathematics Education

2017 Teacher Quality Grant
The University of Texas at Arlington
<http://mathed.uta.edu/TQ>

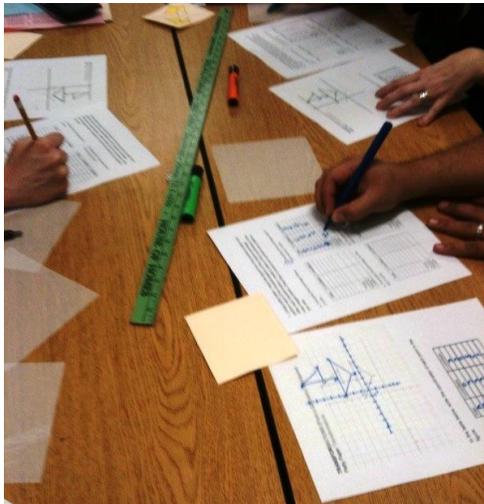
UT Arlington's M.A. Program in Mathematics for Secondary Teachers

This program in the Department of Mathematics is designed for secondary teachers who are interested in *strengthening their understanding of mathematics and enriching their mathematics teaching*. In courses, teachers explore topics grounded in secondary school mathematics from an advanced standpoint. Courses can be taken *à la carte* as a special student, or as part of the M.A. degree in mathematics.

Program Calendar

Orientation: Saturday, January 21, 9am – 12pm

Spring 2017: MATH 5346 Concepts and Techniques in Problem Solving
Mondays, January 23 – May 8, 5:30 – 8:20pm



UT Arlington Teacher Quality Project

A grant from the THECB will support a cohort of teachers teaching high school mathematics (Algebra I and above) to participate in one course offered by UT Arlington's M.A. Program in Mathematics for Spring 2017. Benefits and responsibilities are described below.

In each course, participants...

- Work together to solve math problems grounded in high school mathematics.
- Use technology to enhance the teaching and learning of mathematical ideas
- Analyze their own, & others', students' mathematical thinking in detail
- Discuss strategies for implementing an instructional approach that emphasizes algebraic reasoning, problem solving, and critical thinking

Participant Benefits

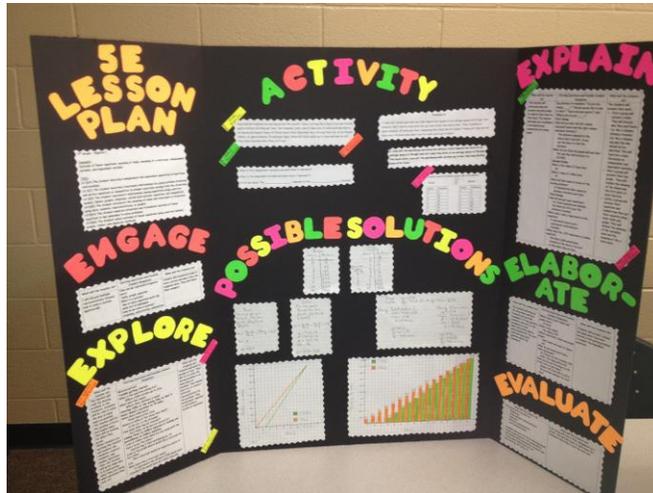
Upon completion of UTA course requirements, 2017 grant participants will receive:

- **3 hours (1 course) of graduate credit in mathematics** (tuition and fees paid by TQ grant), applicable toward an M.A. in mathematics. (Support is not applicable to other programs or courses, including online courses.)
- **Books valued at over \$75**
- **\$100 stipend** for completing the course
- **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 the course, including completing required assignments and action (classroom) research outside of class meetings. Courses provide extensive peer and instructor support, but do represent a significant time commitment.
- 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
- facilitate the scheduling of visits by master-teacher coaches who will assist in development and implementation of content and instructional skills



Application and Acceptance Timeline:

- Complete applications must be received by **midnight on Sunday, November 27, 2016**. 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.

- Teachers selected for the program **will be notified by email** during the week of November 27, 2016, and teachers must accept or decline selection by **Saturday, December 3, 2016**.
- Participating teachers will need to complete application to UTA's Graduate School by **December 20, 2016** (see <http://www.uta.edu/admissions/graduate/> for details).

For more information please visit the program web site (<http://mathed.uta.edu/TQ>), or contact Dr. Christopher Kribs (Project Director, kribs@mathed.uta.edu, 817-272-5513), Dr. Theresa Jorgensen (Project Co-Director, jorgensen@uta.edu, 817-272-1321), or Dr. Kathryn Rhoads (Project Co-Director, kerhoads@uta.edu, 817-272-5168). Our fax: 817-272-5802.