**TEACH MATH (Teachers Empowered to Advance CHange in Mathematics): Preparing preK-8 teachers to connect children's mathematical thinking and community-based funds of knowledge.**

The central aim of the *TEACH MATH* project is to transform preK-8 mathematics teacher preparation so that new generations of teachers will be equipped with powerful tools and strategies to increase student learning and achievement in mathematics in our nation’s increasingly diverse public schools. This study includes a) the iterative refinement of instructional modules for preK-8 mathematics methods courses that explicitly develop teacher competencies related to mathematics, children’s mathematical thinking and community/cultural funds of knowledge, b) the development of an innovative model of structured support and mentoring for new teachers and c) the creation of on-line networks to facilitate ongoing teacher and teacher educator collaboration. The project combines design research in university elementary mathematics methods courses with a longitudinal study that uses a staggered cohort model, leveraging understandings gained from initial cohorts to inform work with subsequent groups. TEACH Math encompasses five university sites that represent a diverse range of teaching contexts from primarily urban (CUNY, University of Washington at Tacoma), to a mixture of urban, suburban, and rural (Michigan State University, Washington State University Tri-Cities) to the borderlands (University of Arizona).

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