

## **Background and Significance**

•U.S. competitiveness depends on improvements in the math and science education of K–12 students (e.g., National Commission on Mathematics and Science Teaching for the 21st Century, 2000).

 Improving mathematics education for young children (under age 8) may be critical to later outcomes, particularly for low-SES children (Ginsburg, Lee, & Boyd, 2008).

Parents and teachers show a sense of discomfort when working with each other on mathematics (Peressini, 1998; Remillard & Jackson 2006).

Teacher education institutions minimally address parent involvement (Hiatt-Michael, 2004).

## Method

Primarily Math Program: Teachers participated in a NSF funded elementary mathematics specialist program.

6 courses (3 math/3 pedagogy-child development)

Participants: Two cohorts of K-3 teachers in the Primarily Math Program:

> Cohort 1: 32 female teachers (started program Summer of 2009)

•Cohort 2: 27 female and 1 male teacher (started program Summer of 2010)

Research Question: How do early elementary public school teachers participating in a program of graduate math education coursework connect with families and invite parents to become partners with teachers in math education?

Data Analysis: Qualitative analysis (Stake, 1995) of teachers' family projects papers.

Inventories of family project papers were analyzed to examine: Types of family projects teachers undertook

> Anticipated risks and benefits of doing such a project •The type or types of quality involvement the teachers wanted to achieve

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