

TUSD (12 Schools) and Amphi School District (La Cima) 2004-2005, Tucson, AZ.

A grant from the Arizona K-12 Center made it possible for the implementation of the Math and Parent Partners (MAPPS) Program during the fall semester of 2004 and continuing through the spring semester of 2005. The program was conducted at Tucson Unified School District in 12 schools: 6 were elementary and 5 were middle schools and La Cima Middle School located in Amphi School District. During this time period 676 parents and 582 students attended 29, 2-hour Math for Parents Workshops. Total parent hours involved in MAPPS were 1342.

The implementation of the MAPPS program made a positive impact on all of those involved: teachers, parents, and students. Below are some highlights resulting from the program.

The implementation of the MAPPS program:

- **Enhanced teacher quality in teaching**

The pre-and post-surveys showed that the teachers:

- increased their mathematical content knowledge
- helped them learn new approaches to teaching and learning mathematics
- increased their knowledge of ways to work with parents in math
- provided them opportunities to collaborate with parents in meaningful ways.

- **Increased Student Academic Achievement**

Summary data for student achievement was based on the respective districts standards. La Cima students showed an 80% growth on their CRT's. Data gathered for the Tucson Unified Students was based on comparing their first and last math grading periods with 33% of the students showing achievement increases and 56% remaining the same.

Student comments from the *Reflection and Evaluation* form were:

- "I learned how fun it is to do 8th grade math."
- "I liked everything. Everything was cool. Too bad it's the end."
- "I liked the food and the activities also the great staff."

- **Empowered parents in the learning of mathematics**

Parents were asked to complete a *Reflection and Evaluation* form after each workshop. The comments fell into four categories.

- **Fun:**

"It's a fun program especially working with parents and having time to work together. Everyone got to participate having fun with it and understanding things more."

- **School's Math Curriculum:**
"Being informed about the school's math curriculum was something I enjoyed learning about."
- **Environment:**
"Environment was relaxing. Teachers explained the math very well and it was easy to understand."
- **Helping my child:**
"I enjoyed learning math with my child. I enjoyed help my child do math. Then we did it with our families and it made math fun."