



The Rice University Mathematics Leadership Institute (MLI)



Eighty high school teachers in the Aldine and Houston Independent School Districts received professional development and support to become lead teachers.

DUE #0412072

Summer Leadership Institute

Lead teachers participated in an intensive two-year program consisting of summer and academic-year components that focused on rigorous mathematics and development of leadership and coaching skills with a strong diversity component.



"During the summer meetings I learned a lot about coaching in a non-threatening manner. My personality is very straight forward and to the point. I have learned to be straight forward and to the point and also encouraging and gentle at the same time."

Texas Assessment of Knowledge and Skills		2005-06	2006-07	2007-08	2008-09
9 th Grade - Mean Mathematics Scale Score	MLI	2149***	2179***	2173***	2105
	Comparison	2119	2111	2115	2084
10 th Grade - Mean Mathematics Scale Score	MLI	2135	2170***	2194***	2175***
	Comparison	2158**	2139	2142	2129
11 th Grade - Mean Mathematics Scale Score	MLI	2217*	2223	2217	2282***
	Comparison	2192	2223	2211	2225

* p<.01 ** p<.001 *** p<.0001



Texas Master Mathematics Teacher

To further increase their mathematics content knowledge, improve their knowledge of pedagogy, develop their leadership knowledge, and enhance their status as intellectual mathematics leaders in their school districts, lead teachers were supported to become certified Texas Master Mathematics Teachers, Grades 8-12 (MMT). The initial goal of MLI was to increase the number of teachers with MMT (8-12) certification by 20%. The actual increase was 63%.

"This program has empowered us as a group to collectively and cooperatively address both positive and negative issues. I now have a cohort on all campuses to help deal with a myriad of issues from teaching strategies to district policies."

Noyce Scholars

Nine lead teachers were invited to further refine their leadership and coaching skills as master teachers. They provided professional development for teachers and leaders, organized tutorials for students, led the MLI Summer Leadership Institutes, and presented at national conferences.