

# A Math Success Story

## St. Martin Hall

### San Antonio, Texas

St. Martin Hall, the laboratory demonstration school at Our Lady of the Lake University in San Antonio, Texas, is unique among San Antonio Catholic Schools, providing both quality education for its Pre K-5 students and opportunities for innovative programs in collaboration with the University.

St Martin Hall has demographics that closely match those of public schools in the San Antonio area, with a large percentage of Hispanic students and English Language Learners.



St Martin Hall's primary goal is to provide an equal opportunity to learn for all students – and to challenge and encourage each to reach the highest possible level of academic growth. In 2004-2005, frustrated by persistently low math test scores and failure of other programs to raise them, Linda Lang, Principal, and her staff decided to implement the MIND Institute's research-based ST Math+Music Program at grade 2 to boost math performance of the school's diverse student population.



mindinstitute.net

## ST Math+Music

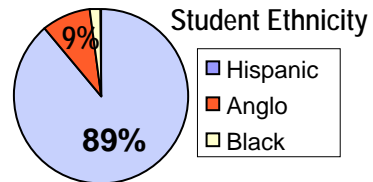
Research-based ST Math™ courseware uses a visual, language-independent learning approach that

- Builds math competency through students' application of innate Spatial Temporal (ST) reasoning capacity to visualize and solve problems in space and time
- Significantly accelerates learning and improves standardized test scores of *all* students – regardless of academic or language proficiency

The complementary music curriculum enhances learning of both math and music by

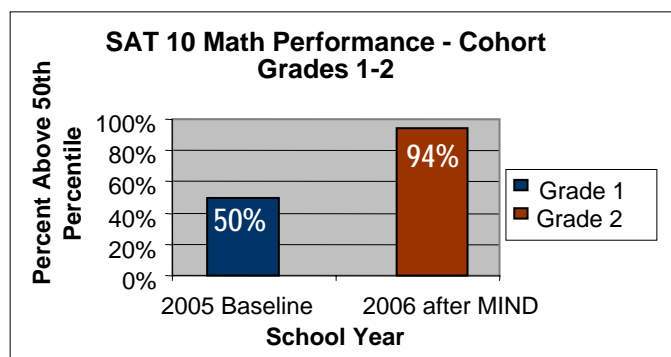
- Training students' Spatial Temporal reasoning skills applied in the math courseware
- Providing a rigorous foundation in music theory and extensive piano instruction.

ST Math+Music is based on over 30 years of educational and neuroscience research at the University of California, Irvine.



The school serves a wide variety of students – many on scholarship with special learning needs. In addition to its regular curriculum, the school operates specific programs to serve special ed and learning disabled – as well as gifted and talented students.

After just one year of using ST Math+Music, the percent of students in the grade 2 cohort scoring above the 50<sup>th</sup> percentile on the 2006 Stanford Achievement Test (SAT 10) rose to 94% – a increase of 44 points from their 2005 grade 1 50% baseline.

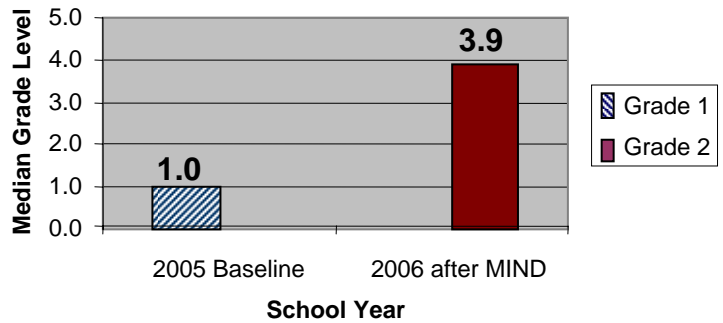


Every participating student also significantly increased scores on each of the two SAT 10 subtests – with average gains of 63.7 and 70.7 points respectively in Mathematics Procedures and Problem Solving. Among the highest gains were those of St. Martin's Learning Disabled students.

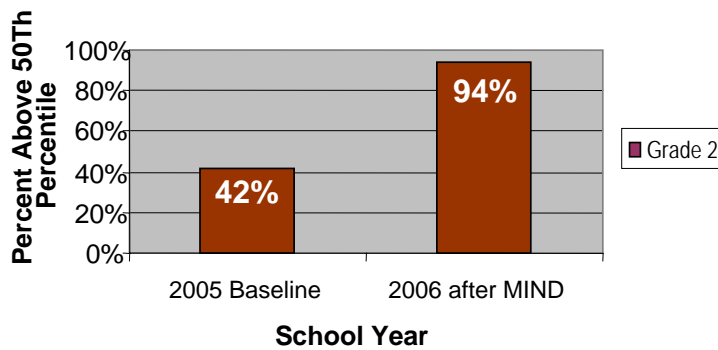
Based on this 2006 success, ST Math+Music is now an integral part of St. Martin Hall's math curriculum in grades Pre K-5.

Between grades 1 and 2, the median grade level on the SAT 10 jumped from the cohort's 2005 baseline of 1.0 to 3.9 – well above their expected level and an increase of nearly 3 grades in just one year of using ST Math+Music.

### SAT 10 Math Performance - Cohort Grades 1-2

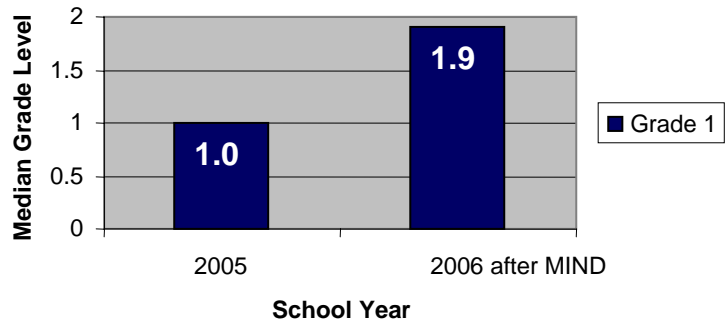


### SAT 10 Math Performance - Grade 2



After just one year of using ST Math+Music, 94% of grade 2 students scored above the 50<sup>th</sup> percentile on the SAT 10 – a 52% gain over the 42% baseline established by the 2005 2<sup>nd</sup> grade class.

### Math Performance - Grade 1



At the end of grade 1, 2005 1<sup>st</sup> graders scored at a beginning grade 1 level of 1.0. After just one year of using ST Math+Music, the 2006 grade 1 class scored on level – at 1.9 – on their spring SAT 10 tests.

” Our learning disabled students have done so well that they are not requiring the assistance of a Special Education teacher. This really helps with inclusion of special education in regular classes.”

“Our parents really appreciate the benefit of the piano instruction which not only helps boost math performance, but also motivates students to excel in the arts – and some to perform in our formal music recitals.”

*Linda Lang, Principal, St. Martin Hall*