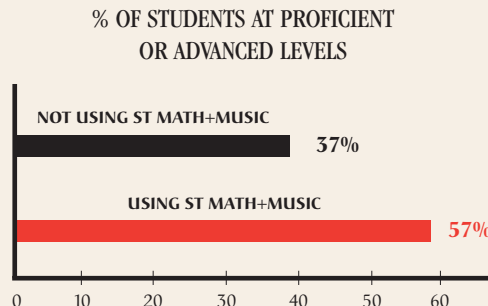




*More than 6000 students in grades 2, 3 and 4 in 27 elementary schools in California participated in a 2002-2003 study of ST MATH+Music™ program effectiveness. The majority of the students were from Title I schools. All students were subsequently tested in mathematics using the California Achievement Test, Form 6 (CAT6) and the California Standards Test.*

## RESULTS OF THE STUDY

- *ST MATH+Music students outscored their non-treatment peers by 20 percentile points on the CAT6 standardized math test.*
- *57% of ST MATH+Music students ranked as “Advanced” or “Proficient” on the CST versus 37% of the non-treatment students.*



### Math Success for All Students

The CST results show that participating **students at every ability level improved their scores**. For example, in second grade, 8.9% of non-treatment students tested at *far below basic*, compared with just 2.3% of ST MATH+Music students. At the other end of the performance scale, the number of students who tested at the *advanced* level nearly doubled, from 13.9% of non-treatment students to 26.2% for participants. With its unique visual approach, ST MATH+Music is as valuable for students who struggle with mathematics as it is for advanced students. The challenging, brain research-based software develops conceptual understanding far beyond rote memorization, even for high performers.

*The MIND Institute's ST MATH™ software is a series of computer-delivered games and puzzles that utilize spatial temporal reasoning to teach math concepts, aligned to state standards, from grades K through 5. Spatial temporal reasoning is the innate ability to visualize and manipulate images through a sequence of steps in space and time. This non-language based approach delivers the instruction in a way the brain is hard-wired to receive, and avoids the unnecessary complexity and confusion inherent in a language-first approach. MIND Institute scientists discovered that music training develops spatial temporal reasoning, helping put all students on a level playing field for the ST MATH™ software games. Spatial temporal reasoning is also a highly valuable general problem-solving skill.*

**For a copy of the full report, please call the MIND Institute or email [info@mindinstitute.net](mailto:info@mindinstitute.net).**



**MIND Institute**

714.751.5443 ■ Toll Free: 888.751.5443 ■ [www.mindinstitute.net](http://www.mindinstitute.net)

**THE BOTTOM LINE: Math performance by participating students on state standardized math test was dramatically higher.**