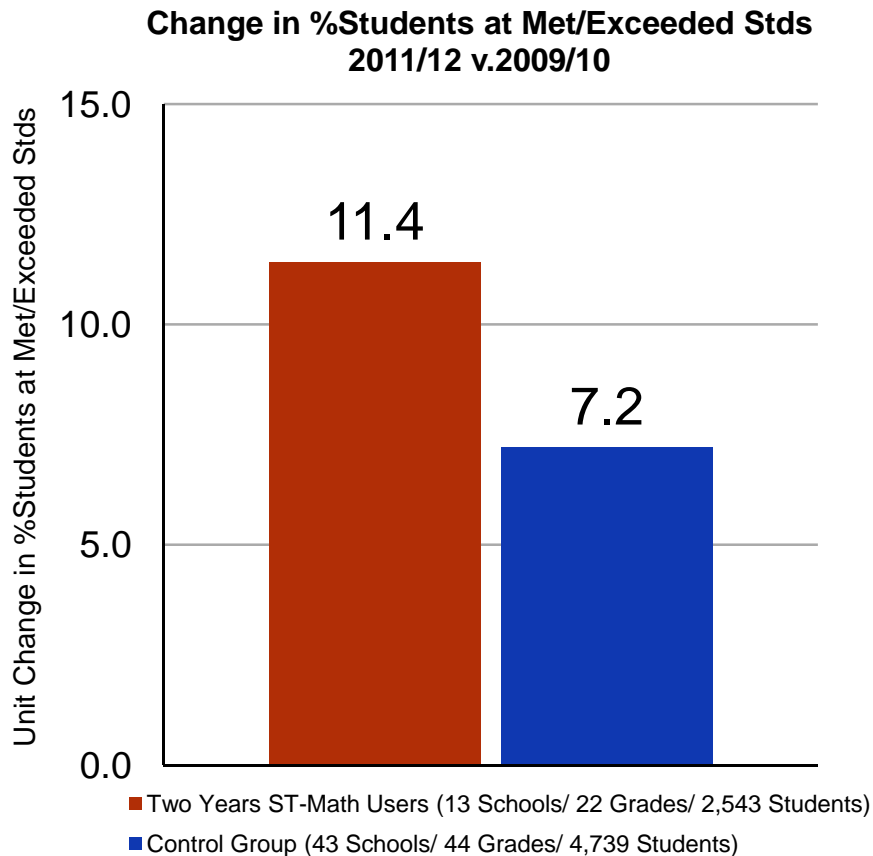


## Clark County Math Outcomes (Two Years of ST Math Usage)

**Subjects:** MIND Research Institute analyzed all partner schools in the Clark County School District for grade-average CRT math achievement growth between the 2009/10 and 2011/12 school years. All grades with two years of ST Math usage, and average student ST Math content coverage of at least 50%, and with at least 85% of their students enrolled in the ST Math program in the 2011/12 school year were analyzed. This report focuses on grades from 13 schools, implementing the program at grade 3, 4, and/or 5, with altogether 22 grades and 2,543 students using the program. The comparison set was randomly chosen to be similar schools in the Clark County School District: 43 schools, 44 grades, and 4,739 students.



**Program:** In each grade using the program, all students and teachers are licensed to participate. The ST Math® program consists of supplemental math instructional software which covers Nevada math standards at each grade level. The software presents the mathematics as a year-long curriculum of interactive, animated visual diagrams, or puzzles, for the students to solve. The students use the self-starting, self-paced instructional software twice per week under the teacher's supervision. The teacher is trained to also use the software's visual representations of mathematics concepts during regular classroom lessons, to connect to the conventional language-intensive math instruction.

**Data Collection:** The average CRT math achievement levels distributions, and student enrollment were collected for each grade level for the years 2009/10, 2010/11, and 2011/12 from the Nevada Annual Reports of Accountability website. Each year the data indicate the percentage of students at each grade who tested into the 4 different levels of math achievement. The average MIND Research Institute program implementation percentage and student enrollment in the MIND software were collected from MIND's digital usage data.

**Analysis Summary:** Changes from 2009/10 to 2011/12 in the percent of students at the top 2 achievement levels, Met or Exceeded Standards, were evaluated for the ST Math group and also the comparison group of schools. A grade-wise growth comparison was evaluated (i.e. growth in same grade, same school, from 2009/10 school year to 2011/12 school year) and then aggregated across grades and schools.

**Results:** The grades implementing ST Math on average grew 11.4 points in the percentage of students Meeting or Exceeding Standards, as compared to an average increase of 7.2 points for the comparison group (p-value=0.14).