



Middle School CST Math Gains Successful Intervention at San Diego Area Middle School 2008/09 School Year

Program

- Early morning math program at one middle school, 1 hour before school
- Voluntary program in a computer lab with one teacher supervising
- One school year 2008/2009

Student Selection

- 45 8th Grade Students taking Algebra Readiness (pre-algebra)
- At-risk students not proficient in math

Math Upgrade Intervention

- Students completed Math Upgrade online courses before school
- Sessions of 1 hour, several days per week during the school year
- Entire session time used on student computers completing lessons
- Average of 29 lessons completed in the 60-lesson course

Results: 25-Point Average CST Gain In Test Scores

For Students Completing More than 10 levels:

- CST Gain / Level Earned 1.02
- CST Gain / Hour 4.60
- Average CST Gain 25
- Highest CST Gain: 61
- Students 1 category gain: 22
- Students 2 category gain: 3

Conclusions

- Given that on average students only finished about half of the 60 lessons in the course, students have the potential for higher gains with full completion
- Given a wide deployment to all at-risk students, the potential for CST gains school-wide or district-wide is significant