



New Century Education

SCIENTIFIC RESEARCH UPDATE

Curriculum: Mathematics

Student Population: Elementary School, Economically Disadvantaged,
Academically Underperforming

State: California

Years: 2005-2006

At-Risk Elementary Students Who Used New Century's Mathematics Intervention Performed Significantly Higher on the CST Exam than Non-Users at the Same School

RESEARCH SUMMARY

Location: Madison Elementary School, Rio Linda Elementary School District, California. (This district was subsequently consolidated into the Twin Rivers Consolidated School District.)

Targeted Student Population: 57 3rd Graders with 2005 and 2006 CST scores available

Student Demographics: The district demographics were poor (39% free or reduced meals) and racially mixed (30% Caucasian, 30% Hispanic, 20% African American, 15% Asians and Pacific Islanders, 5% Other.)

Research Design: Students who participated in an after school program received exposure to the New Century curriculum. Control students did not have access to the technology, instead receiving the same instruction that they would have received had the experiment not taken place.

Assessment Instruments: California Standards Test (CST), a criterion referenced test

Results: A total of 57 students (23 control group and 34 experimental group) had data available for both the 2005 (pretest) and the 2006 (posttest) administrations of the CST. An ANCOVA showed that students who used New Century Math Courseware scored significantly higher ($P=.021$) than those who did not. Additionally, a regression analysis significant at the .004 level (beta of .167) showed that the more time 3rd Grade Madison students spent on New Century Math activities, the higher their scores on the 2006 Math CST. Students who used New Century software over 15 hours (top third in usage) scored over 36 points higher ($M=358.1$) than non-users on the 2006 CST Math Exam ($M=321.7$). The magnitude of this difference was equal to Cohen's d of .27.

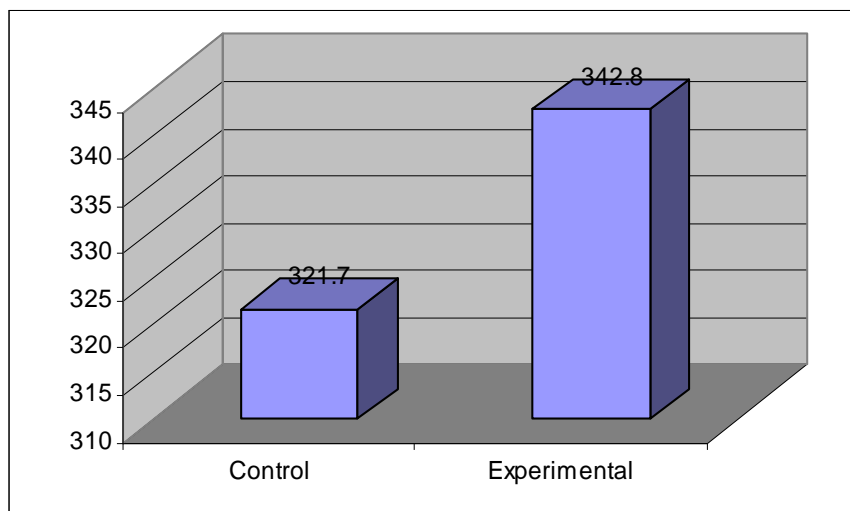


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CST Math Scores Partitioned by Condition

Control	Experimental
2006 CST ₁	2006CST ₁
M=342.8	M=321.7
S=6.864	S=5.640
N=23	N=34

ANCOVA Analysis: Mean 2006 CST 3rd Grade Math Scores Adjusted for 2004 CST 5th Grade Math Scores and Partitioned by Condition



1=2006 CST scores adjusted using 2005 CST Scores as a Covariate

For a copy of the full report contact New Century Education at (866) 326-1133 or marketing@newcenturyeducation.org