

Carver Primary School

CHICAGO PUBLIC SCHOOL DISTRICT
CHICAGO, ILLINOIS.

SCHOOL PROFILE

555 STUDENTS GRADES PRE K-3
98% Free/Reduced Lunch
100% African American

PLATO ACHIEVE NOW™ IMPLEMENTATION

Grade 2 Focus
Reading/Language Arts/Mathematics
Focus
After-School Tutorial Model
Supplemental Educational Services
Model

RESEARCH INSTRUMENTS

Achieve Now Progress Test

RESEARCH TIME FRAME

October – April
2004-2005 School Year

STUDENTS IN GRADE TWO MAKE GAINS IN READING, LANGUAGE ARTS AND MATHEMATICS

CARVER PRIMARY SCHOOL CHOSE PLATO ACHIEVE NOW TO USE AS PART OF A SUPPLEMENTAL EDUCATIONAL SERVICES (SES) AFTERSCHOOL PROGRAM FOR STUDENTS IN GRADE TWO. STUDENTS WHO PARTICIPATED IN THE SES IMPLEMENTATION MADE GAINS IN TOTAL READING, LANGUAGE ARTS AND MATHEMATICS.

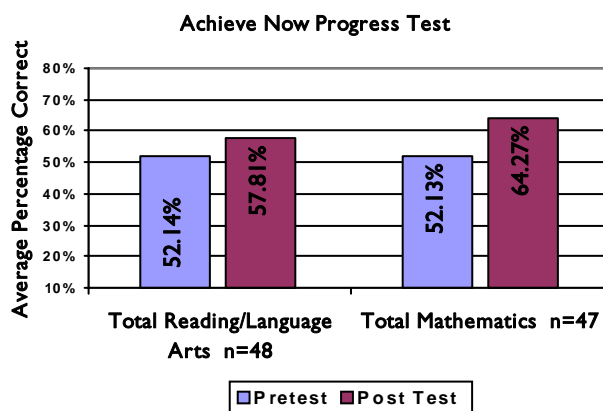
WHEN PRE- AND POST-TEST SCORES OF THE PLATO® ACHIEVE NOW PROGRESS TEST WERE COMPARED, ON AVERAGE SECOND GRADE MADE A 5.68 (p=.009) PERCENTAGE POINT GAIN IN TOTAL READING AND LANGUAGE ARTS SCORES AND A 12.14 (p<.001) PERCENTAGE POINT GAIN IN TOTAL MATHEMATICS SCORES. SECOND-GRADE STUDENTS WHO HAD BOTH PRE- AND POST-TEST SCORES GAINED AN AVERAGE INCREASE OF 17.06% IN TOTAL READING AND LANGUAGE ARTS PROFICIENCY AND AN AVERAGE 31.96% INCREASE IN TOTAL MATHEMATICS PROFICIENCY WHEN BOTH PRE- AND POST-TEST SCORES WERE COMPARED.

PLATO LEARNING, INC. REQUIRES STUDENTS TO ATTEND A MINIMUM OF 75% OF THE SCHEDULED SESSIONS, AND BY THE END OF THE PROGRAM PERIOD, 75% OF THE PROGRAM PARTICIPANTS ARE EXPECTED TO ATTAIN A 15% INCREASE IN PROFICIENCY SCORES.

SECOND-GRADE STUDENTS ATTENDED THE SES PROGRAM FOR A POSSIBLE 66 HOURS OF INSTRUCTION THROUGH THE SES IMPLEMENTATION USING PLATO® ACHIEVE NOW INTERACTIVE CURRICULUM. STUDENTS WITH AN 80% OR HIGHER ATTENDANCE RATE MADE A 5.26 (p=.038) PERCENTAGE POINT GAIN IN TOTAL READING AND LANGUAGE ARTS AND AN 11.68 (p<.001) PERCENTAGE POINT GAIN IN TOTAL MATHEMATICS WHEN PRE- AND POST-TEST SCORES WERE COMPARED. STUDENTS WITH AN 80% OR HIGHER ATTENDANCE RATE MADE AN AVERAGE 16.75% INCREASE IN TOTAL READING AND LANGUAGE ARTS PROFICIENCY SCORES AND AN AVERAGE 31.05% INCREASE IN TOTAL MATHEMATICS PROFICIENCY SCORES.

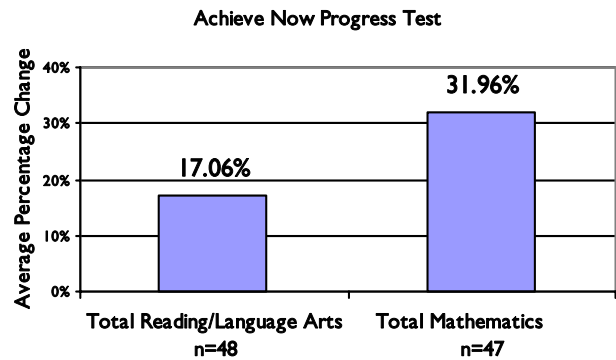
Second-grade students made significant gains in Total Language Arts and Total Mathematics scores

When pre- and post-test scores of the PLATO Achieve Now Progress Test were compared, second-grade students at Carver Primary made a mean 5.67 (p=.009) percentage point gain moving from a mean score of 52.14% on the pretest to a mean score of 57.81% at post test. Second-grade students also made a 12.14 (p<.001) percentage point gain in Mathematics moving from a mean score of 52.13% on the pretest to a mean score of 64.27% at post test. Results are statistically significant.



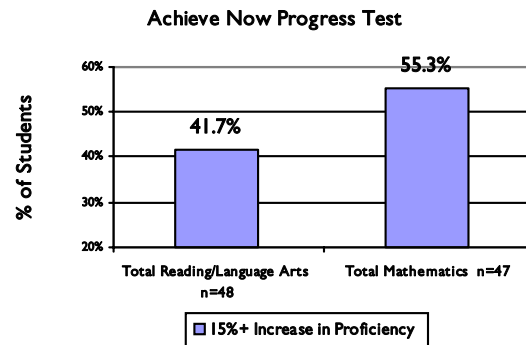
Second-grade students make percentage increases in both Reading and Language Arts and Mathematics

When PLATO Achieve Now pre- and post-test scores were compared, the second-grade students participating in the SES Program at Carver Primary made an average percentage increase of 17.06% in Total Reading and Language Arts proficiency score and an average percentage increase of 31.96% in Total Mathematics proficiency score. The average attendance hours for the second-grade students with both pre- and post-test scores in Reading and Language Arts was 56.64 hours and for those students with both pre- and post-test scores in Mathematics was 56.53 hours.



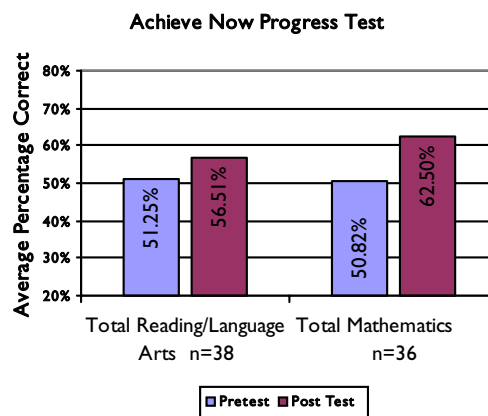
Some students make 15% gain in proficiency scores

Of the second-grade students participating in the SES program at Carver Primary who had both pre- and post-test scores from the PLATO Achieve Now Progress Test, 41.7% made a 15% or more increase in Total Reading proficiency scores and 55.3% made a 15% or more increase in Total Mathematics proficiency scores.



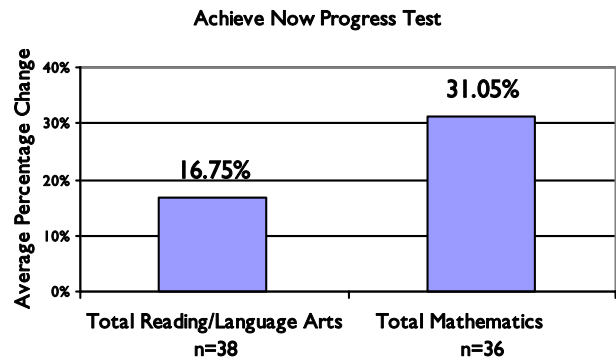
Students with 80% attendance rate make significant gains in Reading and Language Arts and Mathematics

When pre- and post-test scores of the PLATO Achieve Now Progress Tests were compared, on average the Carver Primary second-grade students participating in the SES program who had attendance rates of 80% (48+ hours) or more, made a significant 5.26 ($p=.038$) percentage point gain in Total Reading and Language Arts score moving from a mean score of 51.25% on the pretest to a mean score of 56.51% at post test. On average these second-grade students also made a significant 11.68 ($p<.001$) percentage point gain in Mathematics, moving from an average score of 50.82% on the pretest to an average score of 62.50% at post test.



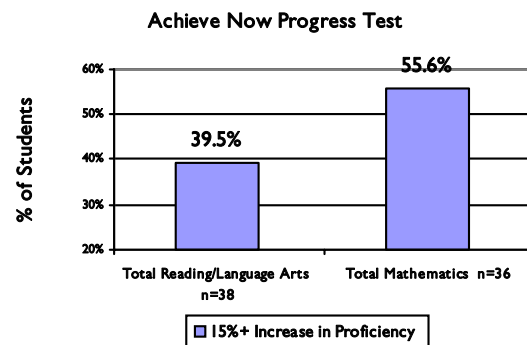
Students with 80% attendance rate make percentage increases in both Reading and Language Arts and Mathematics

When PLATO Achieve Now pre- and post-test scores were compared, the students participating in the SES Program at Carver Primary who had an attendance rate of 80% (48+ hours) or more made an average percentage increase of 16.75% in Total Reading and Language Arts score and an average percentage increase of 31.05% in Total Mathematics score. The average attendance hours for those students with both pre- and post-test scores in Reading and Language Arts was 58.97 hours and for those students with both pre- and post-test scores in Mathematics was 58.86 hours.



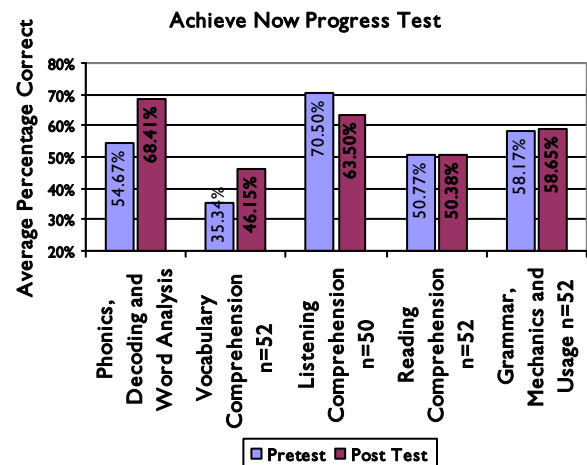
Students with 80% attendance rate make 15% gain in proficiency scores

When pre- and post-test scores of the PLATO Achieve Now Progress Test were compared, on average of the second-grade students at Carver Primary participating in the SES program who had attendance rates of 80% (52.8+ hours) or more, 39.5% made a 15% or more increase in Total Reading proficiency scores and 55.6% made a 15% or more increase in Total Mathematics proficiency scores.



Second-grade students make gains in three Reading and Language Arts sub-categories

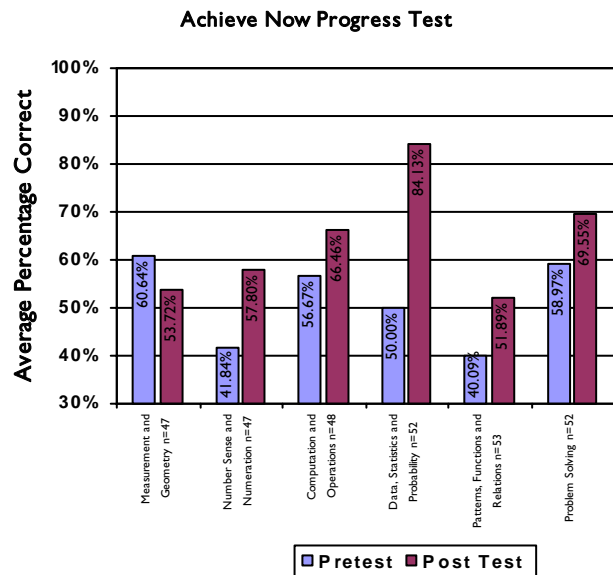
The second-grade students participating in the SES program at Carver Primary made gains in three Reading and Language Arts sub-categories. These students made a 13.74 ($p < .001$) percentage point gain in Phonics, Decoding and Word Analysis moving from a mean score of 54.67% on the pretest to a mean score of 68.41% at post test. On average these students also made a 10.82 percentage point gain ($p = .003$) in Vocabulary Comprehension moving from a mean score of 35.34% on the pretest to a mean score of 46.15% at post test. On average these second-grade students did make a 7.00 ($p = .176$) percentage point decline in Listening Comprehension dropping from a mean score of 70.50% on the pretest to a mean score of 63.50% at post test. These students also saw a 0.38 ($p = .932$) percentage point decline in Reading Comprehension dropping from a mean score of



50.77% on the pretest to a mean score of 50.38% at post test. These students made a 0.48 ($p=.919$) percentage point gain in Grammar, Mechanics and Usage moving from a mean score of 58.17% on the pretest to a mean score of 58.65% at post test. Results were statistically significant for Phonics, Decoding and Word Analysis and Vocabulary Comprehension.

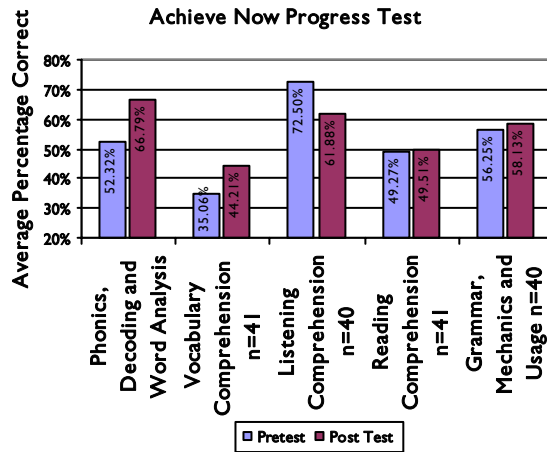
Second-grade students make gains in five Mathematics sub-categories

The second-grade students participating in the SES program at Carver Middle made gains in five Mathematics sub-categories. On average these students made a 6.91 ($p=.113$) percentage point drop in Measurement and Geometry dropping from a mean score of 60.64% on the pretest to a mean score of 53.72% at posttest. On average these second grade students did make a 15.96 ($p=.001$) in Number Sense and Numeration moving from a mean score of 41.84% on the pretest to a mean score of 57.80% at post test. On average these students also made a 9.79 ($p=.002$) percentage point gain in Computation and Operations moving from a mean score of 56.67% on the pretest to a mean score of 66.46% at post test. On average these second-grade students made a 34.13 ($p<.001$) percentage point gain in Data, Statistics and Probability moving from a mean score of 50.00% on the pretest to a mean score of 84.13% at post test. On average these students made an 11.79 ($p=.016$) percentage point gain in Patterns, Functions and Relations moving from a mean score of 40.09% on the pretest to a mean score of 51.89% at post test. On average these second-grade students made a 10.58 ($p=.007$) percentage point gain in Problem Solving moving from a mean score of 58.97% on the pretest to a mean score of 69.55% at post test. Results were significant for all sub-categories but Measurement and Geometry.



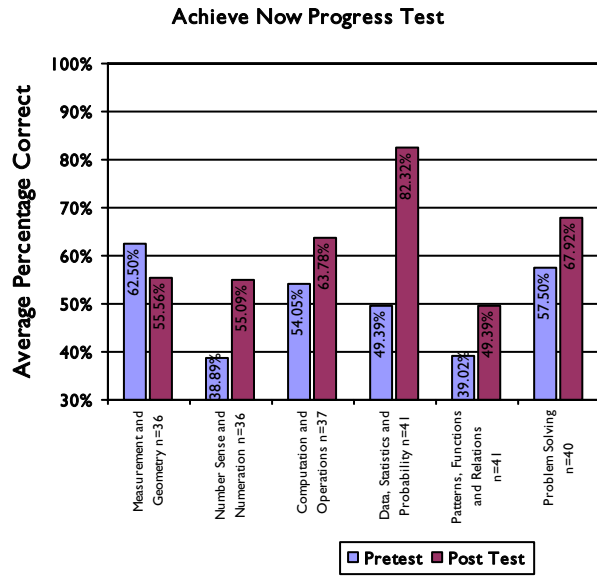
Second-grade students with 80% attendance rate make gains in three Reading and Language Arts sub-categories

The second-grade students who participated in the SES program at Carver Primary were offered a total of 66 hours of instruction. For students to demonstrate an 80% attendance rate, they had to attend a minimum of 52.8 hours. The second-grade students who demonstrated an 80% attendance rate made gains in four Reading and Language Arts sub-categories. These students made a 14.47 ($p < .001$) percentage point gain in Phonics, Decoding and Word Analysis moving from a mean score of 52.32% on the pretest to a mean score of 66.79% at post test. On average these students also made a 9.15 percentage point gain ($p = .010$) in Vocabulary Comprehension moving from a mean score of 35.06% on the pretest to a mean score of 44.21% at post test. On average these second-grade students did make a 10.63 ($p = .045$) percentage point decline in Listening Comprehension dropping from a mean score of 72.50% on the pretest to a mean score of 61.88% at post test. These students also made a 0.24 ($p = .964$) percentage point gain in Reading Comprehension moving from a mean score of 49.27% on the pretest to a mean score of 49.51% at post test. These students made a 1.88 ($p = .743$) percentage point gain in Grammar, Mechanics and Usage moving from a mean score of 56.25% on the pretest to a mean score of 58.13% at post test. Results were statistically significant for Phonics, Decoding and Word Analysis, Vocabulary Comprehension and Listening Comprehension.



Second-grade students with 80% attendance rate make gains in five Mathematics sub-categories

The second-grade students who participated in the SES program at Carver Primary were offered a total of 66 hours of instruction. For students to demonstrate an 80% attendance rate, they had to attend a minimum of 52.8 hours. The second-grade students who had an attendance rates of 80% or higher made gains in five Mathematics sub-categories. On average these students made a 6.94 ($p=.160$) percentage point decline in Measurement and Geometry dropping from a mean score of 62.50% on the pretest to a mean score of 55.56% at post test. On average these second grade students did make a 16.20 ($p=.005$) percentage point gain in Number Sense and Numeration moving from a mean score of 38.89% on the pretest to a mean score of 55.09% at post test. On average these students also made a 9.73 ($p=.010$) percentage point gain in Computation and Operations moving from a mean score of 54.05% on the pretest to a mean score of 63.78% at post test. On average these second-grade students made a 32.93 ($p<.001$) percentage point gain in Data, Statistics and Probability moving from a mean score of 49.39% on the pretest to a mean score of 82.32% at post test. On average these students made a 10.37 ($p=.058$) percentage point gain in Patterns, Functions and Relations moving from a mean score of 39.02% on the pretest to a mean score of 49.39% at post test. On average these second-grade students made a 10.42 ($p=.035$) percentage point gain in Problem Solving moving from a mean score of 57.50% on the pretest to a mean score of 67.92% at post test. Results were significant for all sub-categories but Measurement and Geometry and Patterns, Functions and Relations.



Carver Primary School

Carver Primary School was one of thirteen schools in the Chicago Public School District using PLATO® Achieve Now through a Supplemental Educational Services Program. Carver Primary is located in Chicago, Illinois and is set in an urban community. The school serves students in Pre-kindergarten through grade three with 98% of the population receiving free or reduced lunch.

Carver Primary School is guided by the philosophy of a balanced approach to teaching and learning consistent with Illinois Standards. Implementation of the PLATO® Achieve Now curriculum-based program at Carver Elementary began in October of 2004 and funded through the Title I Supplemental Educational Services Program. The goal was to involve families in choose the tutorial program that would increase their student's achievement in the areas of Reading, Language Arts and Mathematics and to motivate students to use the standards-based curriculum program in an after-school tutorial setting. Tutors hired by PLATO® Learning and supervised by Carver Primary used PLATO® Achieve Now to augment whole group and direct instruction and to support learning center strategies.

During the implementation, the school used PLATO® Achieve Now in the after-school tutorial program with students in grade two. Students attended the SES after-school program for four hours of instruction per week for a total of 66 hours of instruction focused on instructional objectives identified on individual and group learning paths. Students worked individually or in pairs to complete specific activities on PLATO® Achieve Now CDs.

Multiple assessments used to monitor student progress throughout the program included PLATO Achieve Now Progress Tests, PLATO® Achieve Now Progress Checks, teacher observations and teacher-student activity related discussions.

Choosing PLATO® Achieve Now as the SES skill and content model ensured replicable results and offered an innovative research based curriculum to further support Carver Primary's efforts to increase student achievement.



For more information, call 800.44.PLATO or visit www.plato.com

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