

Analysis of the After School Program Component of
**City Year Los Angeles's
Whole School
Whole Child Model**

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Commissioned by
City Year Los Angeles

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City Year is an education-focused nonprofit organization that partners with public schools to help students in school and on track to graduate. Founded in Boston in 1994, City Year operates in cities across the United States and has international affiliates in London and Johannesburg, South Africa. City Year corps members are 18- to 25-year-olds who commit one year of full-time service in elementary or middle schools or in one-to-one person shadow-based teams. City Year corps members provide a variety of services including literacy and math tutoring for targeted students, classroom support for teachers and after school programs that includes homework help, math tutoring, and enrichment activities. City Year developed the Whole School Whole Child Model to address the central factors affecting student academic success: attendance, behavior, and course performance.

nous nées. operations et au sein de la ville de Los Angeles. Les corps membres sont recrutés parmi les étudiants universitaires et post-universitaires qui souhaitent donner un sens à leur vie en servant dans les écoles primaires et secondaires de la ville de Los Angeles. Leur rôle principal est d'assurer l'apprentissage des élèves en leur fournissant une aide scolaire et en participant à diverses activités éducatives. Ils sont également responsables de la gestion administrative et opérationnelle de l'école, ce qui inclut la préparation des cours, la gestion des tâches administratives et la coordination avec les enseignants et les parents. Les corps membres passent généralement un an dans une école primaire ou secondaire, mais certains peuvent servir pour deux ans ou plus. Ils sont formés à la gestion du temps et à la résolution de problèmes pour assurer une bonne gestion de l'école. Leur travail contribue à améliorer la qualité de l'éducation et à promouvoir l'égalité sociale et économique dans la communauté.

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This report focuses on Year after school programs in terms of estimating the academic and socio-emotional outcomes associated with students' participation in ASY, and its outcomes in terms of support for analyses of. This impact on student performance is guided by three primary research questions:

- Greater improvements to outcomes occur when a student receives both in-school and after school support
- To what extent are there positive outcomes for students receiving after school supports only, without in-school supports
- How students identified as non-traditional earners differ in terms of program benefit

This brief provides a summary of the study, including a description of the study's methodology and a brief explanation of the analyses conducted to describe the characteristics of students in these two categories. Year partnered and corps members served in these schools during the present findings for our analyses of. This impact on students' attendance and grades and test scores and its impact on students' report card scores for the - and - school years.

Key Findings

- Students who attended ASY for more than 10 hours were on average approximately three times more likely to increase their grades in the - school year than students who did not attend. Students attending more than 10 hours of ASY also scored significantly higher on the end of year report card. N = 120
- Middle school students who participated in Year-in-school and after school interventions were on average three times more likely to maintain or improve their attendance at grade N = 120
- Late students participating in any Year program were on average three times more likely to maintain their overall grades or improve their grades in other than school years. N = 120 and attendance was three times more likely N = 120 to maintain their grades N = 120
- Students who received more than the median in-school tutoring hours in the - school year also attended ASY and scored an average of points higher on the spring than students who attended less than the median in-school hours N = 120. This effect was even stronger for female students who gained on average points on the N = 120. On average, students who participated in ASY for more than 10 hours and received any in-school support also scored higher gains.
- ASY participation was associated with positive outcomes for students classified as poor or below average for ASY participants classified as poor. We found positive effects on attendance outcomes and on the end of year report card.

Study Methodology

or our analyses. We used data collected by Y staff, Y corps members and Y partners across these data include students, academic and social

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Corps Member Characteristics

We received data from 1,091 corps members who served at 10 sites included in our analyses for three years. These data included corps members' race or ethnicity, gender, highest level of education attained,

Data Analysis

We conducted separate analyses for each outcome at grades 3, test scores, 5th grade test scores using different methods.

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Program Participation

Students in Y Corps receive targeted support in various areas throughout the school day in after school programs or at other times. Y Corps members play an important role in providing this support by working with teachers to differentiate instruction and/or with students one-on-one in a tutoring capacity. Additionally, their presence as role models and their approach to coaching also provides students with socio-emotional support, especially in sections examines the characteristics of these corps members and the resulting hours of specialized instruction that students received in - and -.

Program Participation Characteristics

Exhibit 3: Characteristics of CYLA corps members serving students in 2012-13 & 2013-14

Corps member characteristics	Percent of corps members	
	2012-13	2013-14
Gender	<i>N= 78</i>	<i>N= 66</i>
Male	-	-
Female	-	-
Race/Ethnicity	<i>N= 70</i>	<i>N= 66</i>
Latino or Hispanic	-	-
White	-	-
Black	-	-
Asian	-	-
Other	-	-
Highest level of education	<i>N= 78</i>	<i>N= 66</i>
Graduate degree	-	-
Bachelor's degree	-	-
Associate's degree	-	-
Some college	-	-
High school graduate	-	-
Some high school	-	-

The following table provides a breakdown of the distribution of corps members across various demographic categories. The data shows that the gender distribution remained relatively stable between the two study years, with females slightly outnumbering males. The race/ethnicity distribution also remained consistent, with the majority being Latino or Hispanic. In terms of education level, the highest proportion of corps members had some college education, followed by high school graduates. The distribution of highest level of education was similar between the two study years.

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Hours of Support

The number of hours of in-school support that a student received is similar for students receiving in-school and after-school support received during the year. The mean number of hours of tutoring in school and after school respectively is approximately 10 hours. Students in after-school programs received a higher dose of support than in-school students in all years of study received more than three times the number of hours of after-school support. It is important to note that the range of doses of hours of support received is very large. While some students received less than one hour of after-school support, others received hundreds of hours according to the median number of hours also provided in this table to provide an additional measure of central tendency.

Exhibit 6: Change in Lexile scale score, fall to spring

Type of support	N	Mean Number of Hours	Median Number of Hours
ELA in-school tutoring			
2013-14			

Initial exploratory analyses of the number of hours of support by type of support and by school setting suggest an association between the number of hours of in-school support and fall-to-spring test scores. Significant differences in the number of hours of in-school support between fall and spring are significant. In each type of support category, there are significant differences in the number of hours of support received for fall and after-school hours in school, but not for after-school support. There are particularly noticeable differences in the number of hours in school over time for students who received more than 10 hours of support in all years as well as for students who received less than 10 hours of support. There are no significant differences between the number of hours of after-school support and the number of hours of in-school support respectively.

Exploratory Findings in Student Outcomes

Initial findings focus on fall student outcomes, namely in student assessments, grades, and achievement in student achievement in student socio-economic scores or each subject. This section presents preliminary findings that estimate the baseline of student performance in each subject and changes in performance over the course of each study year.



Preliminary findings at the start of the year show that students significantly improved their quantitative score from the beginning to end of year period. This indicates that there was a significant increase in scores over the year. The difference between the start and end of year scores is statistically significant, indicating a positive effect size.

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There are no statistically significant differences between the start and end of year grades in either of the study years. This suggests that the same educational approaches were effective throughout the year.

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Impact Analyses and Findings

Our analyses of the after school program participation in estimated the impact of students' participation in the program on achievement outcomes, including reading, math, and grades and this report. We analyzed each outcome separately using impact analysis for Y1, Y2, and Y3 and Y4.

RQ1. Do greater improvements to outcomes occur when a student received both in-school and after school support?

ENGLISH LANGUAGE ARTS (ELA) OUTCOMES. We found positive



- Students included on the attendance and/or major
focus lists were



► Analysis of the effect of participation on skills found some positive effects on both students

► Students who attended more than the median number of sessions scored on average points higher on the spring test. $N = p$

► Students who attended the median number of sessions or more scored on average points higher on the spring test. $N = p$

► The magnitude of gains on tests varied by setting and location on both and students in elementary and middle school

► In elementary school, students who participated in AS for the median number of sessions or more scored an average gain of points on the test. $N = p$

► Middle school and students who participated in AS for the median number of sessions or more scored an average gain of respectively points and points on the test. $N = p$ and p respectively

MATH OUTCOMES

► Students who participated in AS were less off the number of hours of support were times more likely to maintain or improve their math grades. $N = p$

► Middle school and students respectively and times more likely to maintain or improve their math grade compared to all students. $N = p$ and p respectively

► The address of types of support provided to the students scored significantly lower on the spring test. $N = p$

SKILLS REPORT CARD (SRC) OUTCOMES

► Students receiving any type of support from significant providers had a higher average of points. $N = p$ and p students scored on average points higher on their spring test. $N = p$

ADDITIONAL FINDINGS

In nearly all analyses of the outcomes associated with the effect of in-school support and AS, we found that at least one measure such as family function and family score is significantly and negatively associated with the final outcome. Middle school students who scored higher in the beginning of the year on these measures are likely to show decreased gains on their final outcomes.

We also included demographic characteristics of each student under none of these characteristics provided a statistically significant effect on student outcomes.

Concluding Observations and Options for Additional Research

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Appendix A: Variables and Statistical Models

Variables and Statistical Models

Used of multiple linear and logistic models to determine the effects of. The proportion on the outcome variables of interest is 10%. Grades at the end of the year, which is for second years, and the areas included in the final models are listed below with their explanations of why they were coded from the original data. The provided to the estimated coefficients and standard errors produced for the areas in the final prediction models are shown in subsequent exhibits accompanied by a short description of the models and analytic methods.

Exhibit A1: Summary of variables used in the analysis and variable coding

Variable label	Description
Scholastic Reading Inventory (SRI)	Students' average reading score taken during spring semester as the outcome variable for ELA test analyses.
Scholastic Math Inventory (SMI)	Students' average reading score taken during spring semester as the outcome variable for math test analyses.
Periodic Assessment (ELA)	Oral reading test analyses our outcome variable for ELA test analyses as a measure in students' periodic assessment scores taken during spring.
Periodic Assessment (Math)	Oral reading test analyses our outcome variable for math test analyses as a measure in students' math periodic assessment scores taken during spring.
Grades (ELA)	Cross of years is indicator variable as the outcome for grade analyses if a student's achievement in their reading maintained an oral reading score at the end of the first reading period and the end of the second year is coded as a variable as if the student's reading achievement one year or if the student's reading achievement at the end of the first reading period and the end of second year.
Grades (Math)	Constructed this outcome variable for math grades across years applying the same process to students' math grades as is described for reading grades above.
Skills Report Card (SRC)	Calculated average student scores over the course of the year by subtracting the student's score of the first administration number for each student's math scores for a six administration of the SRC. The used score at the first administration in the second year administration is or as the final administration is allowed us to keep in the analyses students who were missing data for the last administration due to incomplete data for administration number.

Exhibit A2:
**Multilevel mixed effects models predicting 2013-14 school year
change in Scholastic Reading Inventory (ELA) assessment scores**

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Exhibit A3:

Multilevel mixed effects models predicting 2013-14 school year change in Scholastic Mathematics Inventory (Math) assessment scores

Variables	Coefficient (SE)
Intercept β	
Attended for or more than 5 hours and received to 10 hours of after school tutorin	
Attended for or more than 5 hours and received to 10 hours of after school tutorin	
Attended for or more than 5 hours and received to 10 hours of after school tutorin	
# students γ	
# students γ	
Female students γ	
Average score γ	
Students on the attendance focus list γ	
Students on the behavior focus list γ	
Female corps members γ	
900 - the percent of corps members who took calculus γ	
900 - the percent of corps members or in the same race γ	
Received to 10 hours of after school tutorin	
Received to 10 hours of after school tutorin	

Exhibit A4:
Logistic regression model predicting
school year 2013



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Exhibit A6:
**Multilevel mixed effects models predicting 2013-14 school year
change in Skills Report Card scores**

Variables	Coefficient (SE)
Intercept, β_{00}	
Attended ASP for more than ours Median hours = 80 Y	
Received 3 or more in-school tutorings or tutoring Median hours = all in-school tutorings Y	
% students Y	
% students Y	
% male students Y	
average score Y	
Students on the attendance focus list Y	
Students on the behavior focus list Y	
0.00 - average gain in SRC scores Y	
Random effects	
0.00 mean unit effect r	
Y add X	
N 0.00 S	

indicates p < .05
indicates p < .01 significance

Exhibit reads: Students who attended ASP for more than the median number of hours scored 0.18 points higher (out of 5 points) on the SRC between fall and spring.



Exhibit A8: Multilevel mixed effects models predicting 2012-13 school year change in Math periodic assessment scores

Variables	Coefficient (SE)
Intercept, β_{00}	-
Attended β_1 for or more hours than ho_s and received β_2 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $5th$ to $th p$ c $ntil$ s Y	-
Attended β_1 for or more hours than ho_s and received β_2 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $50th$ to $7 th p$ c $ntil$ s Y	-
Attended β_1 for or more hours than ho_s and received β_2 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $75th$ to $100th p$ c $ntil$ s Y	-
% students Y	-
% students Y	-
% students Y	-
male students Y	-
average periodic assessment score Y	-
Students on time attendance focus list Y	-
Students on behavior focus list Y	-
male corps members Y	-
% male percent of corps members Y	-
% male percent of corps members or in if a student of same race Y	-
Received β_3 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $5th$ to $th p$ c $ntil$ s Y	-
Received β_4 to β_5 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $50th$ to $7 th p$ c $ntil$ s Y	-
Received β_6 to β_7 hours of at insq oo tutorin $\backslash n$ school t to in_y ath ho_s $ithin$ $50th$ to $7 th p$ c $ntil$ s Y	-
Attended β_8 for or more hours $Mian S ho_s=60$ Y	-
Random effects	
% mean u_e effect r	
random x	
N % oos	

indicates p =Indicates p ='
indicates p ar ina si nificance

hibit reads: Controlling for all other variables

significantly lower, losing 0.42 points, on the spring administration of the math periodic assessment.

Exhibit A9:
**Logistic regression model predicting school year 2012-13
change in ELA grade**

Independent variable	Odds ratio (SE)
Intercept	-
Attended 5 or more hours within 5th to 7th percentile	1.00 (0.00)
Attended 5 or more hours within 50th to 75th percentile	1.00 (0.00)
Attended 5 or more hours within 75th to 90th percentile	1.00 (0.00)
Received 5 or more hours of tutoring	1.00 (0.00)

Exhibit A10:
Logistic regression model predicting
school year 2012-13 change in math grade

Independent variable	Odds ratio (SE)
Intercept	
Attended RFEP for 1 or more hours Attendance hours within 5th to 7th percentile	
Attended RFEP for 1 or more hours Attendance hours within 50th to 75th percentile	
Attended RFEP for 1 or more hours Attendance hours within 75th to 90th percentile	
Received 1 or more hours of in-school or at-tutoring In-school hours in 5th to 7th percentile	
Received 1 or more hours of in-school or at-tutoring In-school hours in 50th to 75th percentile	
Received 1 or more hours of in-school or at-tutoring In-school hours in 75th to 90th percentile	
% students	
% students	
% students	
% male students	
% Students on the attendance focus list	
% Students on the behavior focus list	
-1st quarter at-grade	
% poor race Percent of corps earners or in it a student of the same race	
% poor race Percent of corps earners from calculus	
% pseudo-squared	

indicates p = indicates p ='
indicates p = indicates p ='
ar ina si nificance

Exhibit reads: Students classified as RFEP students were 1.55 times more likely to improve or maintain their ELA grade during the 2012-13 school year.

School fixed effects models only slightly improved model fit. Final model fits data significantly better than the empty model, p < 0.001.

Exhibit A11:
**Multilevel mixed effects models predicting 2012-13 school year
change in Skills Report Card scores**

Variables	Coefficient (
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POLICY STUDIES