Title: Final Results of a Five-Year Study of an Expanded Learning Time Model’s Implementation and Student Outcomes

Authors and Affiliations:

Rulf Fountain, Alyssa, Abt Associates, Inc., Alyssa_Rulf_Fountain@abtassoc.com
Gamse, Beth, Abt Associates Inc., Beth_Gamse@abtassoc.com
Velez, Melissa, Abt Associates Inc., Melissa_Velez@abtassoc.com
Abstract Body

Background / Context:
Academic achievement in the nation’s lowest performing schools is troubling. Despite improvements in students’ overall academic achievement over the past few decades, proficiency gaps in reading and mathematics remain across income, racial, and ethnic groups\textsuperscript{1}. One promising strategy for reducing achievement gaps is to expand the school day, often called Expanded Learning Time (ELT); evidence suggests that students’ increased access—through ELT programming—to enrichment activities can improve their academic motivation and social-emotional skill development.

Since 1995, Citizen Schools (CS) has developed and implemented its own ELT model. CS partners with middle schools serving predominantly low income, racial or ethnic minority, and academically struggling students. The CS model relies upon an additional shift of educators and community volunteers to engage middle school students in hands-on apprenticeships, while simultaneously providing individualized supports to ensure academic and future success.

Several recent meta-analyses have examined studies of various ELT models, prioritizing studies based on stronger research designs, and findings are mixed. Some research suggests that expanded learning time improves non-academic student outcomes such as students’ academic motivation, socio-emotional skill development, behavior management, school bonding, and positive self-perceptions, while others found null effects\textsuperscript{2}–\textsuperscript{5}.

Purpose:
The study was designed to address questions about implementation to inform program improvement as well as questions about the impact on student engagement, aspirations, and achievement.

Setting and Sample:
Middle schools in MA, NY, NJ, TX, IL, NM, CA serving predominantly low-income, racial or ethnic minority, and academically struggling students. All students in grades designated for the ELT program are required to participate.

**Intervention:**
CS ELT mobilizes a second shift of educators for two to three hours per day (four days/week), who provide academic support, leadership development, and “apprenticeships” at the end of the school day.

**Research Design:**
The five-year evaluation included implementation and impact components, and incorporated surveys, interviews, and site visits to assess how schools integrate ELT into their school days, as well as relying upon comparison schools—matched on key pre-intervention observable characteristics—to estimate impacts. Analyses examining student achievement, where baseline data are available, used a comparative interrupted time series (C-ITS) design that combined pre-program data and data from matched comparison (MC) schools to produce estimated effects.

Two unique elements of the research design included 1) the creation of an implementation index to systematically measure fidelity to the CS model at each school, and 2) the ability to link the implementation index measure to the achievement data to explain variation in student achievement.

**Data Collection and Analysis:**

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Interview data were synthesized, cleaned and standardized before being uploaded into a qualitative data analysis software package. Further, the study team developed a numeric implementation index keyed to core principles of effective ELT implementation.

CS ELT participants’ survey responses were compared to responses from participants in matched comparison schools using an HLM model. Achievement data were assessed using a C-SITS design which modeled CS ELT as an “interruption” in what would otherwise be assumed to be somewhat stable levels of a particular outcome. Models included up to five years of baseline data, along with school and year fixed effects.
Findings:

- How CS selected appropriate partner schools, planned and communicated about ELT with stakeholders, and anticipated logistical and programmatic challenges to the model demonstrably influenced the ELT implementation.

- CS programming occurs primarily through its staff; consequently, recruitment, hiring, preparation and support of staff have clear ramifications for how the program operates and is perceived.

- The two most prevalent concerns about program sustainability include financial sustainability and campus stability.

- The majority of schools implemented CS ELT with moderate levels of fidelity.

- CS students were significantly more likely to report that their peers were positively engaged, that the ELT program helped their self-esteem and pro-social behaviors, and that they participated in activities to help them learn about college and careers than their counterparts. However, there were also some ongoing challenges (perceptions of CS staff).

- Data on student achievement in English/Language Arts (ELA) and math indicated no overall statistically significant impacts of CS ELT and no difference between higher and lower implementing schools; exploratory analyses suggest a significant positive impact on math achievement in the first year of implementation and a marginally significant positive effect of CS ELT on 7th grade math achievement.

Conclusions:

Schools varied considerably in how the model is incorporated into school contexts, yet variability seems to be essential for the model to be adaptable across such diverse settings. The implementation findings also highlight some of the challenges associated with launching a multi-faceted model in dynamic settings, coupled with built-in staffing changes.

The outcome-focused findings are mixed. The study finds positive effects on student engagement and aspirations and negative perceptions about students’ CS ELT experiences. The confirmatory findings indicate no overall significant impact on student performance, as measured by standardized achievement test scores in ELA and math, and no significant differences in achievement between higher and lower implementing schools. Exploratory findings indicate a significant positive impact of CS ELT on math achievement in the first year of implementation and a marginally significant positive effect of CSELT on 7th grade math achievement.

Prior research on ELT interventions is mixed. Interventions designed to improve academic achievement, such as KIPP, or Higher Achievement, are more likely to affect academic outcomes than interventions designed to broaden students’ enrichment or social-emotional experiences. The CS ELT model emphasizes non-academic learning opportunities hypothesized to be necessary precursors to improved achievement. Perhaps student engagement and aspirational short-term outcomes are more appropriate outcomes on which to focus, given CS’ emphasis on team-building and exposing students to novel, hands-on, real-world experiences through apprenticeships.
References:


