

Alabama's First Class Pre-K Program

Outcomes and Impacts: A Summary of Results

Prepared by the First Class Pre-K Research Evaluation Team
January 2020









Overall Summary of Impacts of First Class Pre-K

Children who attend First Class Pre-K are:

More likely to be:

Ready for Kindergarten

Proficient in reading

Proficient in math

Less likely to be:

Retained in grade

Chronically absent

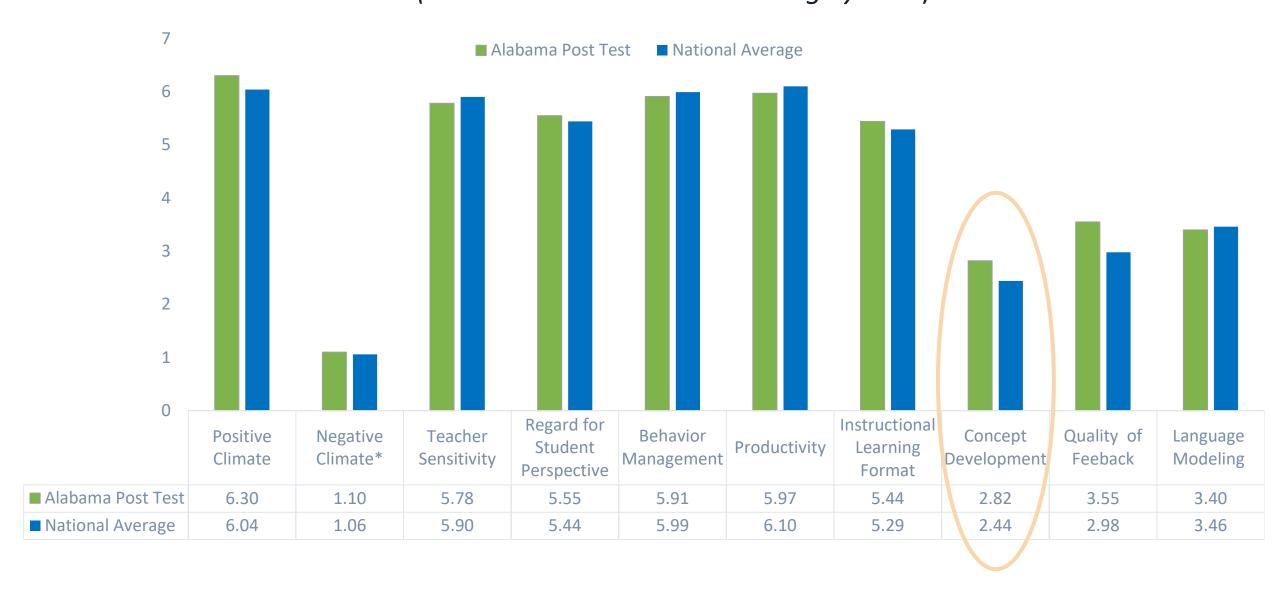
Less likely to:

Need special education

Have disciplinary issues

Quality in First Class Pre-K Classrooms

Quality of Teacher-Child Interactions in First Class Pre-K Classrooms, 2019 CLASS (Classroom Assessment Scoring System)



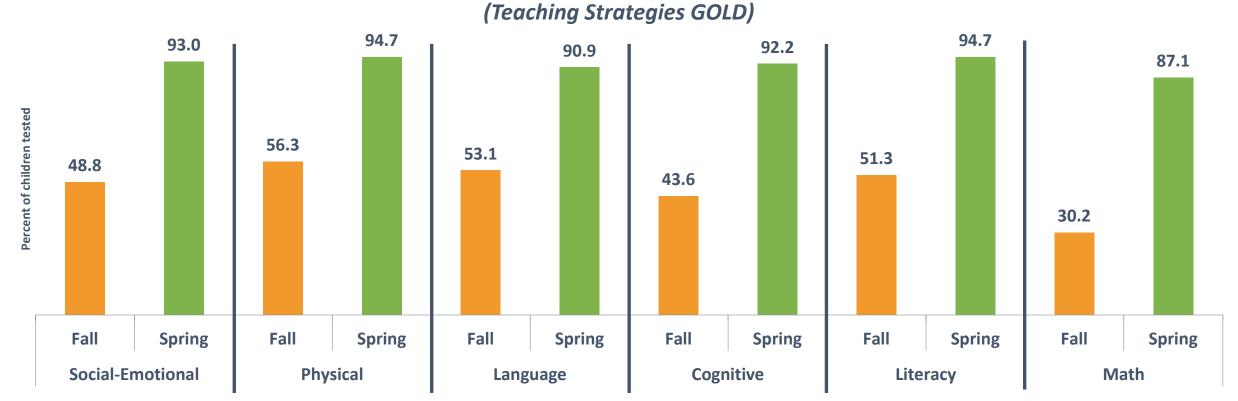
Developmental Gains in First Class Pre-K Classrooms

Teaching Strategies GOLD©

Exceeding Developmental Expectations

Roughly half or fewer children arrived in First Class Pre-K meeting development and learning predictors of school success. By the end of the year, nearly all were <u>meeting or exceeding expectations</u>.

Percent of Children Meeting or Exceeding Widely Held Expectations for Development and Learning First Class Pre-K, Entry (Fall 2018) versus Exit (Spring 2019)



Gains in Developmental Skills

The <u>largest gain</u> in percent meeting or exceeding by the end of the First Class Pre-K year was for <u>math</u> skills.

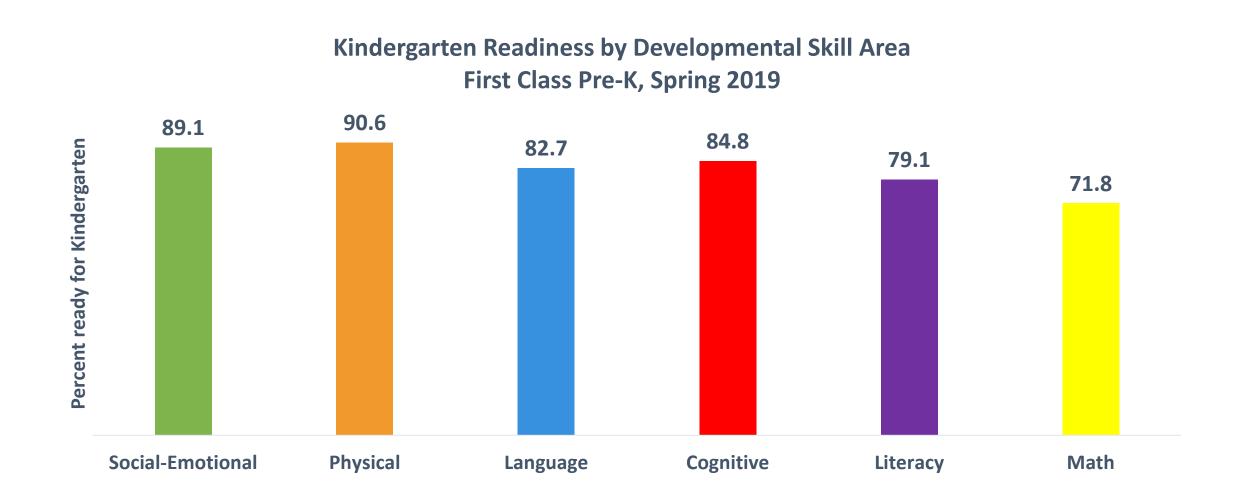
Teaching Strategies GOLD, Fall 2018 and Spring 2019

Skill	Fall Percent Meet/Exceed	Spring Percent Meet/Exceed	Percentage Point Gains, Fall to Spring
Social-emotional	48.4	93.0	44.2
Physical	56.3	94.7	38.4
Language	53.1	90.9	37.8
Cognitive	43.6	92.2	48.6
Literacy	51.3	94.7	44.4
Math	30.2	87.1	56.9

Kindergarten Readiness

Kindergarten Readiness: At First Class Pre-K Graduation

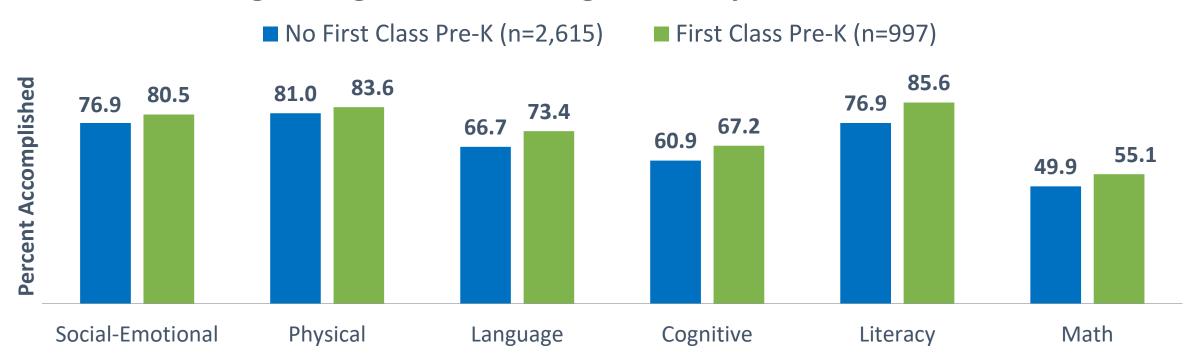
By the end of the year, the majority of children in First Class Pre-K tested "ready" for Kindergarten in each domain.



Kindergarten Readiness: At Kindergarten Entry

Children who completed First Class Pre-K were more likely to test as "ready" at the beginning of Kindergarten than were children who did not receive First Class Pre-K.

Teaching Strategies GOLD Kindergarten Entry Assessment; Fall 2017



School Readiness Domain

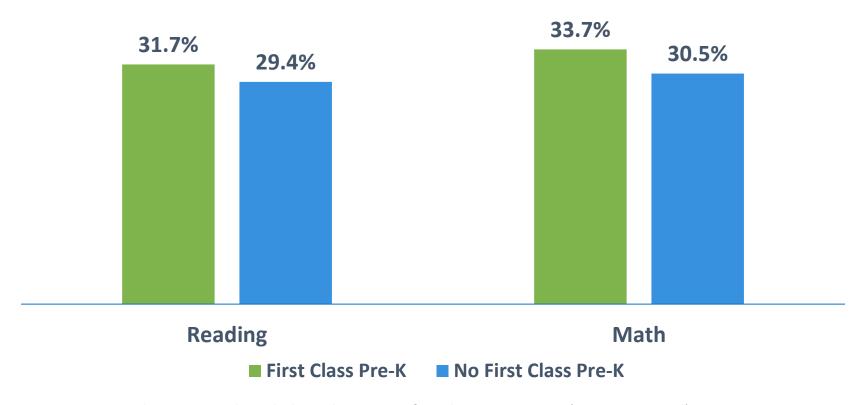
Reading and Math Proficiency

Scantron[©]

Impact: Reading and Math Proficiency for Low Income Students

Low income children who attended First Class Pre-K were more likely to be proficient in reading and math than were those who did not attend.

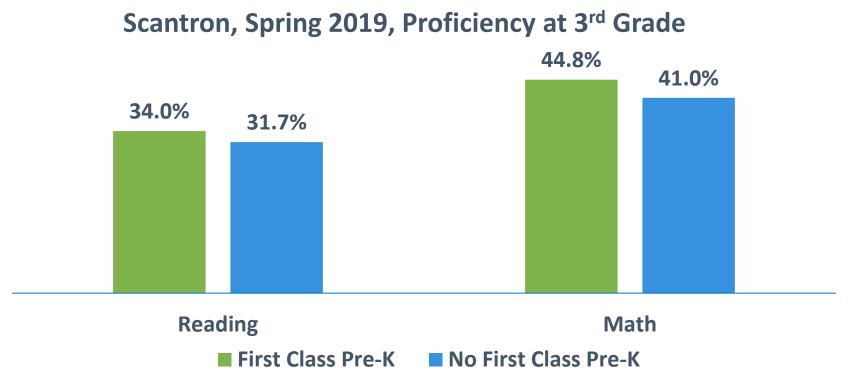
Scantron, Spring 2019, Overall Proficiency for 3rd – 8th Grades



- Proficient = Level 3 or 4 on Scantron <u>and</u> in expected grade based on year of Kindergarten entry (never retained)
- Results statistically significant by Chi square analyses at p<0.0001

Impact: 3rd Grade Reading and Math Proficiency for Low Income Students

Among Alabama's most vulnerable 3rd grade children, those who received First Class Pre-K were more likely to be proficient in reading and math compared with children who did not receive First Class Pre-K.



Reading and Math Proficiency – Sustained Benefits Over Time

ACT-ASPIRE©

Impact: Reading and Math Proficiency for All Students

Using advanced statistical methods to "control" for all other characteristics* that might influence school performance,

Children who received First Class Pre-K were:

- More likely to be proficient in reading
- More likely to be proficient in math

Compared to children who did not receive First Class Pre-K.

***** We see no evidence of fade out of benefits over time.

Based on analyses of ACT Aspire results from Spring 2015, 2016, and 2017 for children in 3rd through 7th grades.

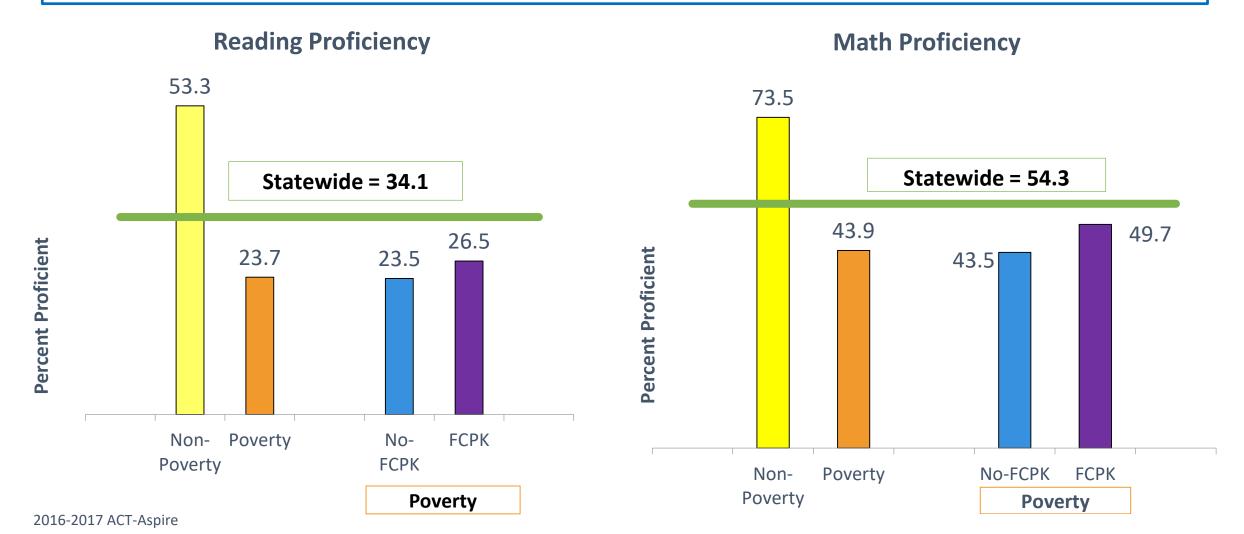
*Multivariable linear probability fixed effects models control for receipt of First Class Pre-K, year received/could have received First Class Pre-K, race/ethnicity, gender, poverty, and school attended.

Reading and Math Proficiency Achievement Gap Closure for Low Income Students

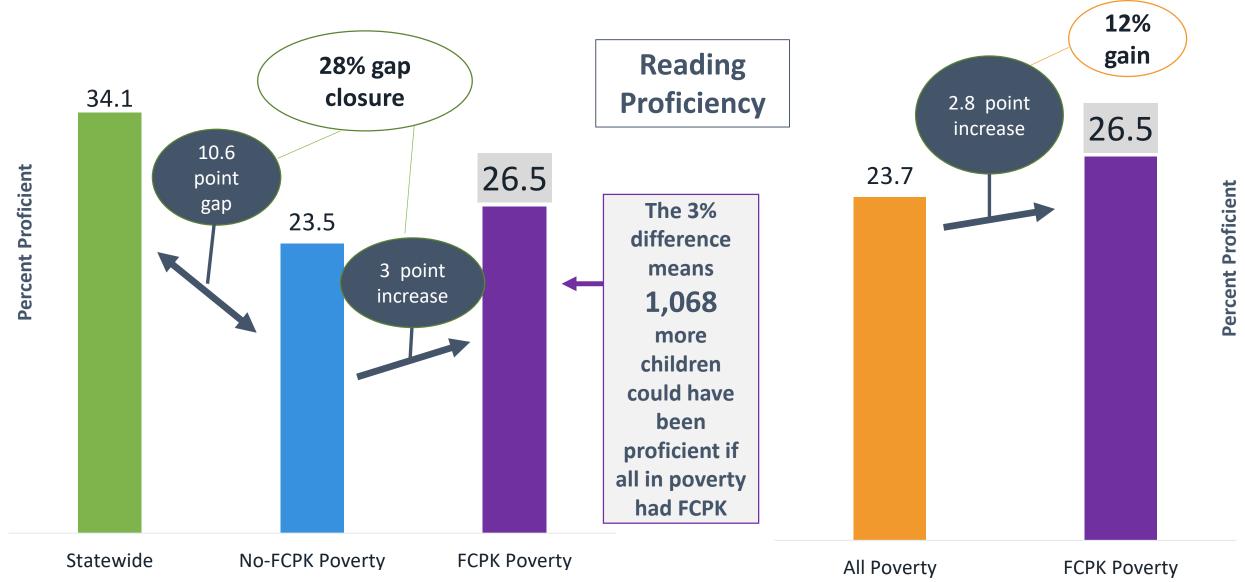
ACT-ASPIRE©

3rd Grade Achievement Gap Based on Income

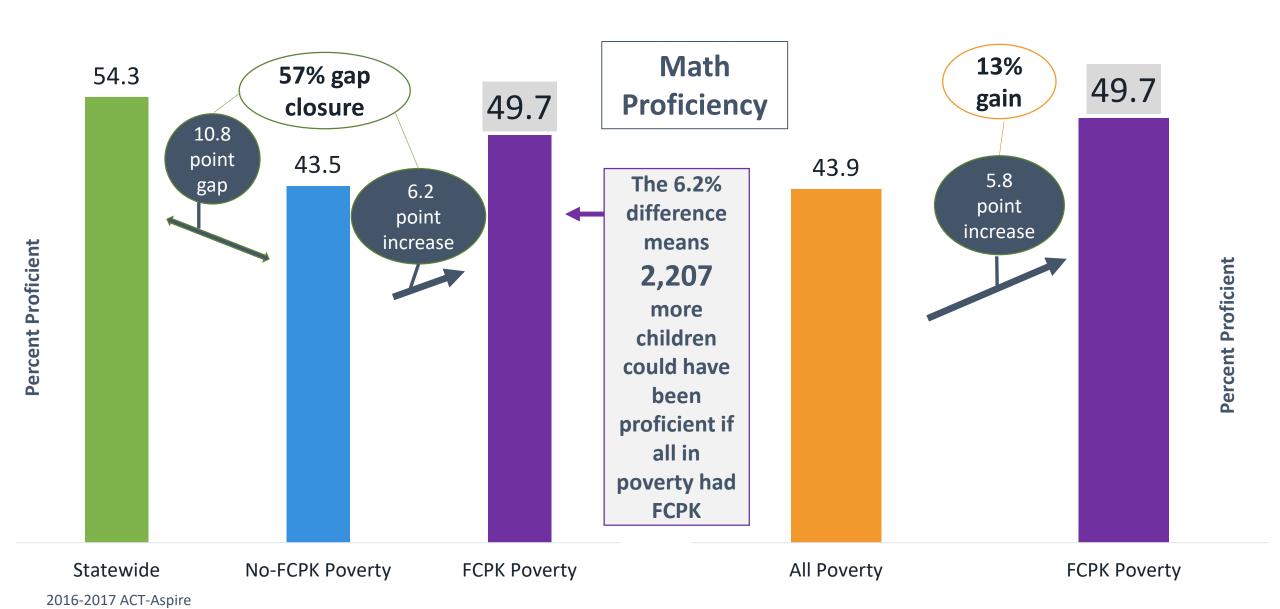
In both Reading and Math, we observe a **29.6 percentage point gap** in proficiency between poverty and non-poverty students. First Class Pre-K closes that gap for children in poverty.



Impact: Narrowing the 3rd Grade Achievement Gap in Reading for Low Income Students



Impact: Narrowing the 3rd Grade Achievement Gap in Math for Low Income Students

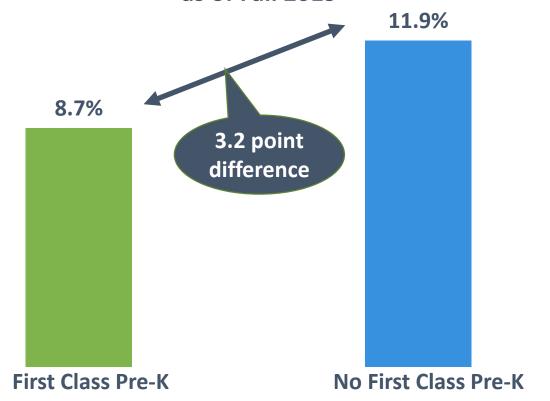


Retention in Grade

Impact: Grade Retention for All Students

Children who received First Class Pre-K are <u>less likely to be retained in grade</u> than children who did not attend.

Percent Children Retained At Least Once in K -7th Grade, as of Fall 2019



The 3.2 percentage point difference represents a ¼ reduction in retention.

The difference means that **13,763** fewer children would have been retained if all in these grades had received FCPK.

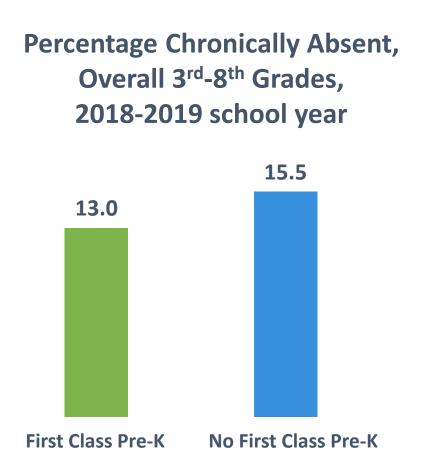
Reducing retention =
Fewer "extra years" →
cost savings

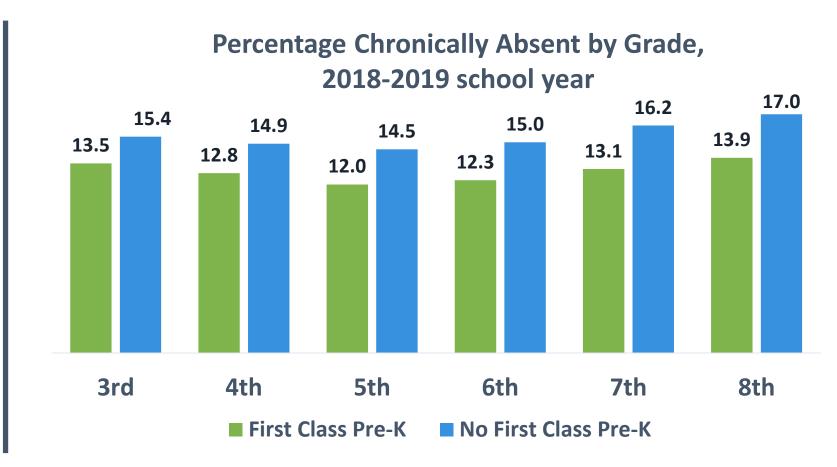
Estimated potential cost savings of \$126,798,519.

Chronic Absenteeism

Impact: Chronic Absenteeism for All Students

Children who attended First Class Pre-K are <u>less likely to be chronically absent</u> overall and consistently across grades.



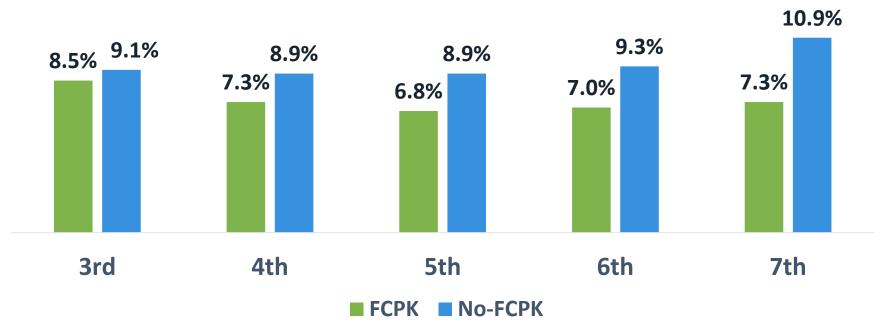


Chronically absent students missed 15 or more days per year

Impact: Attendance for Low Income Students

Alabama First Class Pre-K children consistently over time and across grades miss fewer days of school. Low income children who received First Class Pre-K are less likely to be chronically absent.





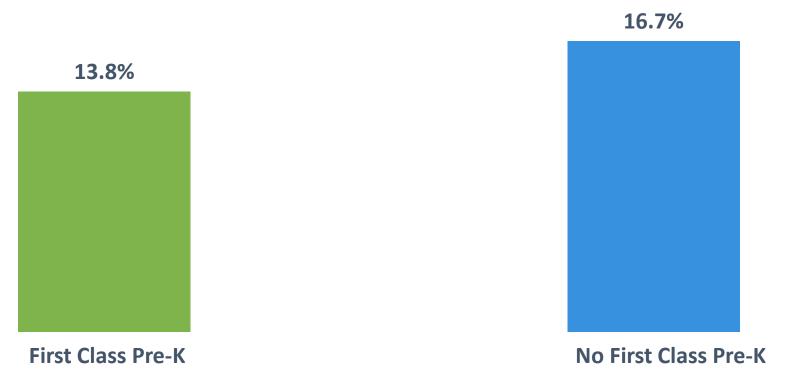
These
differences
result in an
estimated
\$5,403,655
in
cumulative
"lost cost"
avoided

Special Education

Impact: Special Education for All Students

Children who received First Class Pre-K are <u>less likely to need special education</u> <u>services</u> than children who did not attend.

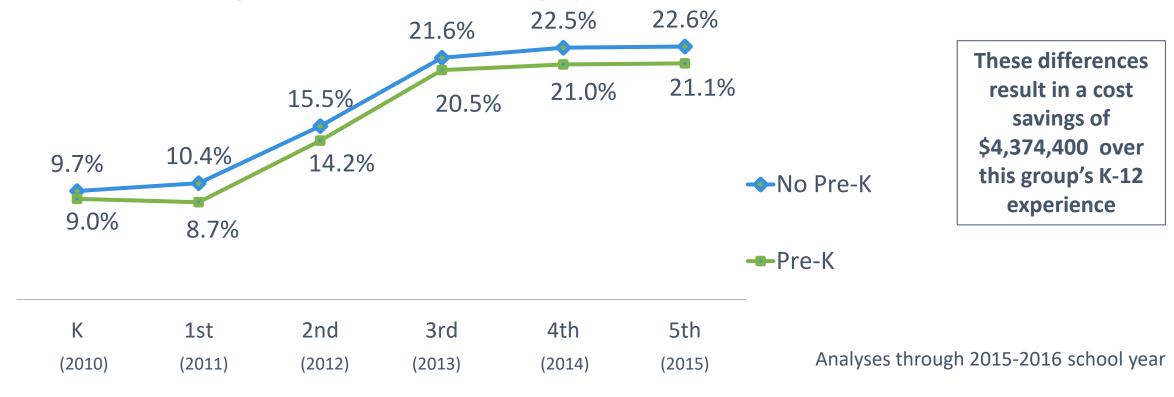
Percent of Children with Individualized Education Program within Past Two Years, Grades 3rd – 8th, as of Fall 2019



Impact: Special Education for All Students

In an analysis of children who began Kindergarten in 2010, at each grade children who received First Class Pre-K <u>needed special education services at lower percentages</u> compared with children who did not receive First Class Pre-K.

Percentage of Children Receiving Special Education

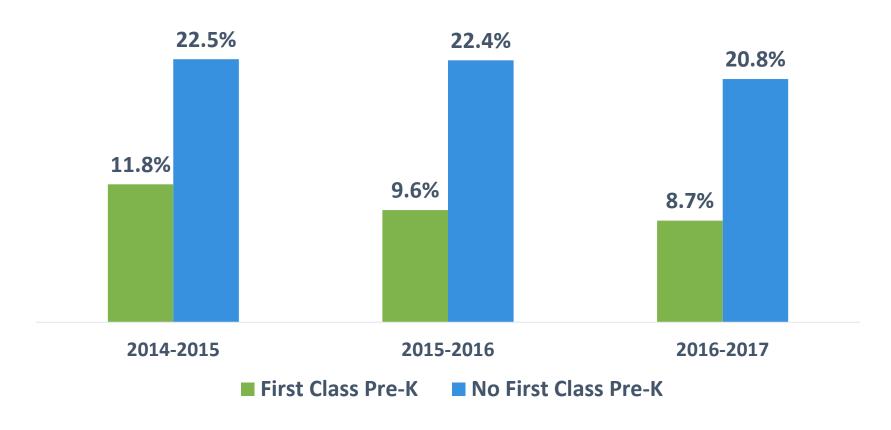


Disciplinary Issues

Impact: Disciplinary Issues

Children who attended First Class Pre-K <u>have lower discipline rates</u> compared to those who did not attend.

Percentage of Students with Disciplinary Infractions, Grades 1st – 12th, by School Year



Impact: Disciplinary Issues

Children who attended First Class Pre-K are <u>have lower discipline rates</u> consistently across grades. The discipline rate differences are larger in middle and high school.

