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CENTER FOR RESEARCH ON EDUCATION OUTCOMES

City Study 2019: St. Louis

Acknowledgements

- Student-level data were provided by the Missouri Department of Elementary and Secondary Education.
- The Opportunity Trust assisted CREDO with verifying the list of public schools in St. Louis.

This Report

- This report on *St. Louis, Missouri* is one in a series of studies examining school performance across selected U.S. cities.
- Performance is defined as how much academic growth students made from one year to the next.
- The performance of students in St. Louis is benchmarked to the state average, accounting for student characteristics.
- We first track the growth of St. Louis overall and by sector using data from 2013-14 to 2016-17.
- We then further explore how one-year academic growth for the period ending in Spring 2017 differs by sector, school type, race, poverty status, English language learner (ELL) status, special education status, and gender.

Types of Charters

- **CMO: Charter Management Organizations**
 - To qualify as a CMO, an organization must oversee the operation of at least three charter schools. Further, the CMO must be the charter holder for all of the schools operated by the CMO.
- **EMO: Education Management Organizations**
 - To qualify as an EMO, an organization must provide services under contract to at least three separate charter schools, but does not hold the charter for any school they serve. The EMO must answer to the school's charter holder in addition to authorizers and state governance.
- **Independent Charter Schools**
 - To qualify as an independent charter school, an organization must oversee the operation of a single charter school. The charter-holding organization may run the school directly or they may contract with an organization which provides services to one or two charter schools.

Presentation of Results

- The results display two sets of comparisons
 - The progress of St. Louis students is **benchmarked against the state average learning gains, accounting for student characteristics.**
 - Positive numbers represent better than average performance.
 - Negative numbers represent worse than average performance.
 - Significance in the difference between students in the city and the average state performance is represented by black asterisks.
 - The progress of charter school students within St. Louis is then **compared to the performance of similar TPS students within St. Louis.**
 - Significance in the difference between a student group in charter schools and the same student group in TPS is represented by colored asterisks.

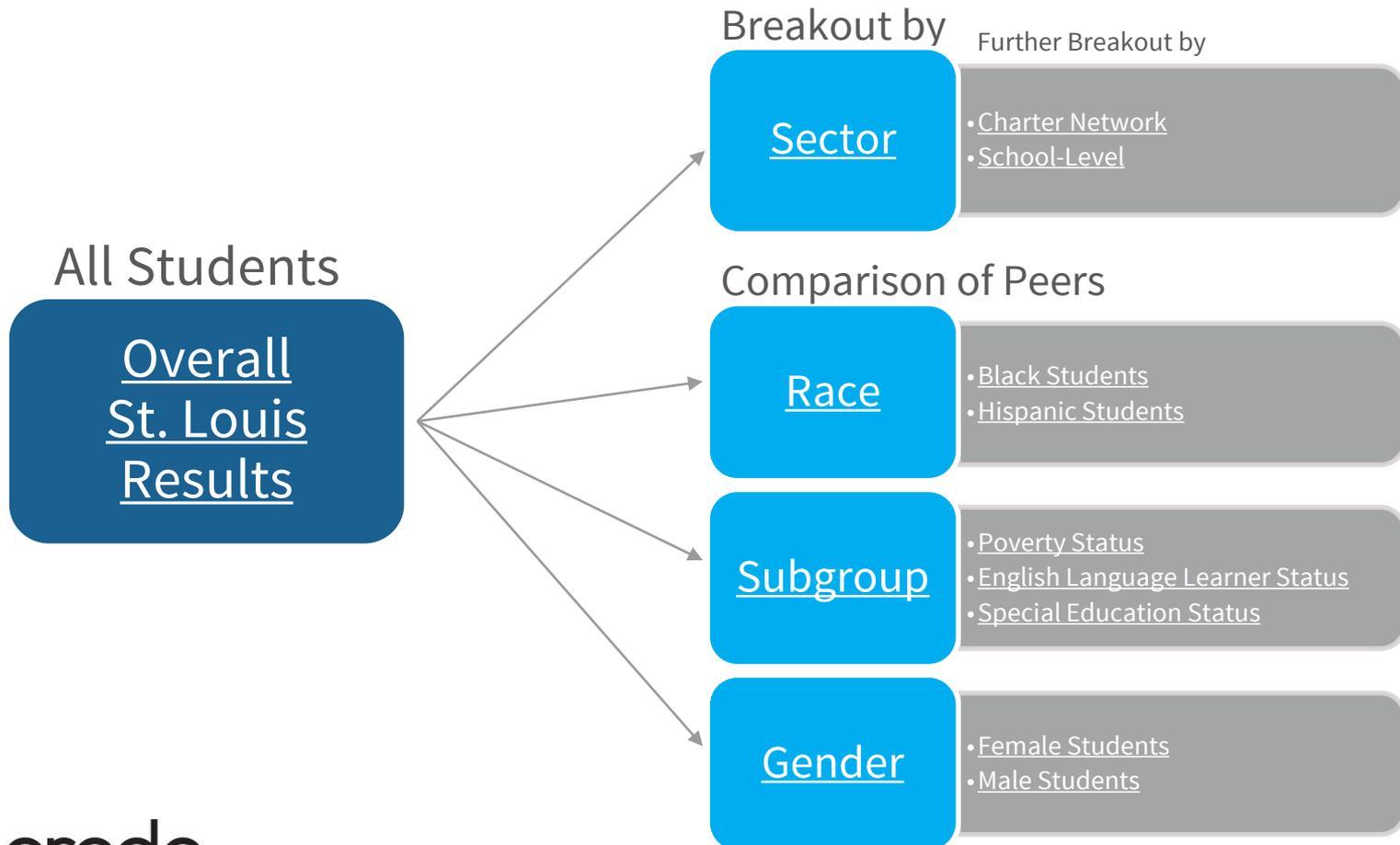
Measurement of Academic Growth

- Results are graphically displayed on two axes:
 - The left axis indicates learning gains of St. Louis students relative to the average learning gains of students with similar characteristics in the state, measured in **standard deviation units**.
 - The right axis displays the same learning gains measured in **days of learning**.
 - The baseline of 0.00 represents 180 days of learning.
 - Positive performance translates to more days of learning.
 - Negative performance represents fewer days of learning.
- The table below shows a transformation of standard deviation units to days of learning.

Standard Deviations	Days of Learning
0.05	30
0.10	59
0.15	89
0.20	118
0.25	148
0.30	177
0.35	207

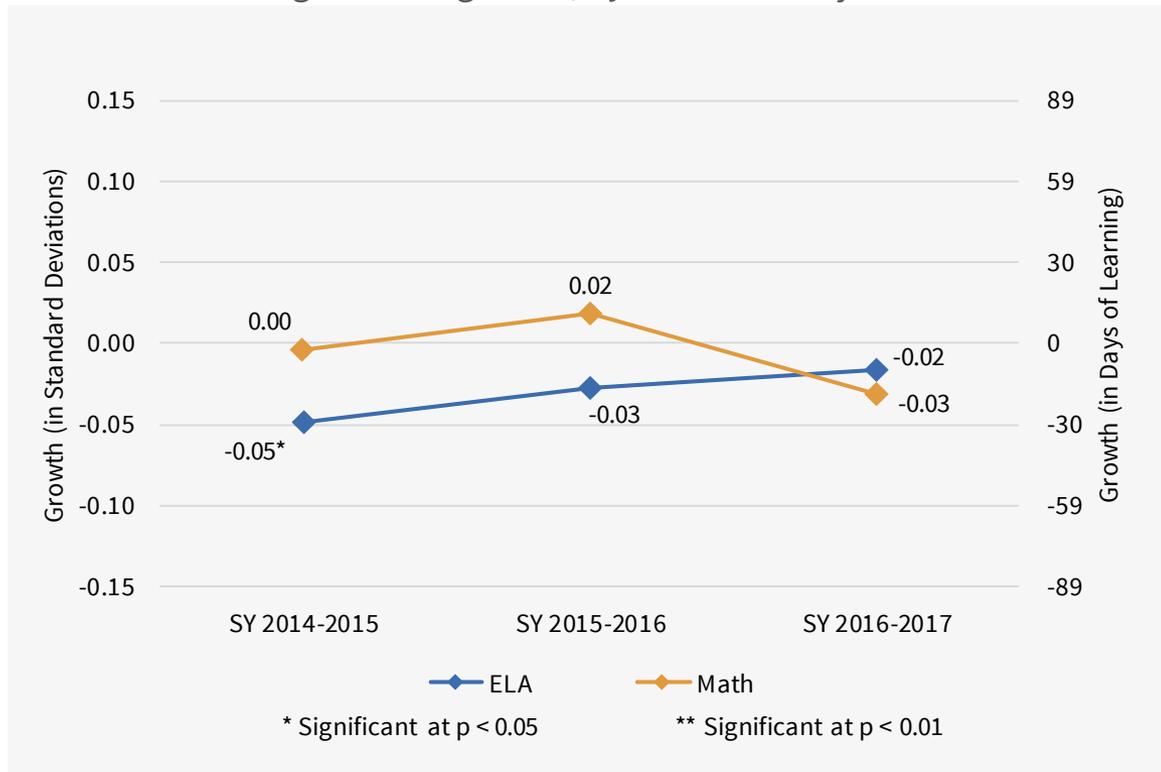
Roadmap for Graphs

This menu includes links to specific analyses throughout the report.
In the following slides, the same menu is shown on the right-hand side.



St. Louis Analysis: All Students

Average One-Year Learning Gains for All St. Louis Students Compared to the State Average Learning Gains, by Year and Subject



The 0.00 line represents the average learning gains of the entire state.

These results capture one-year academic growth for the period ending in the Spring of each school year (SY).

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Sector Analysis

Click the buttons below for English Language Arts (ELA) and math growth of St. Louis schools relative to the state average learning gains by year and sector.

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[Sector Analysis
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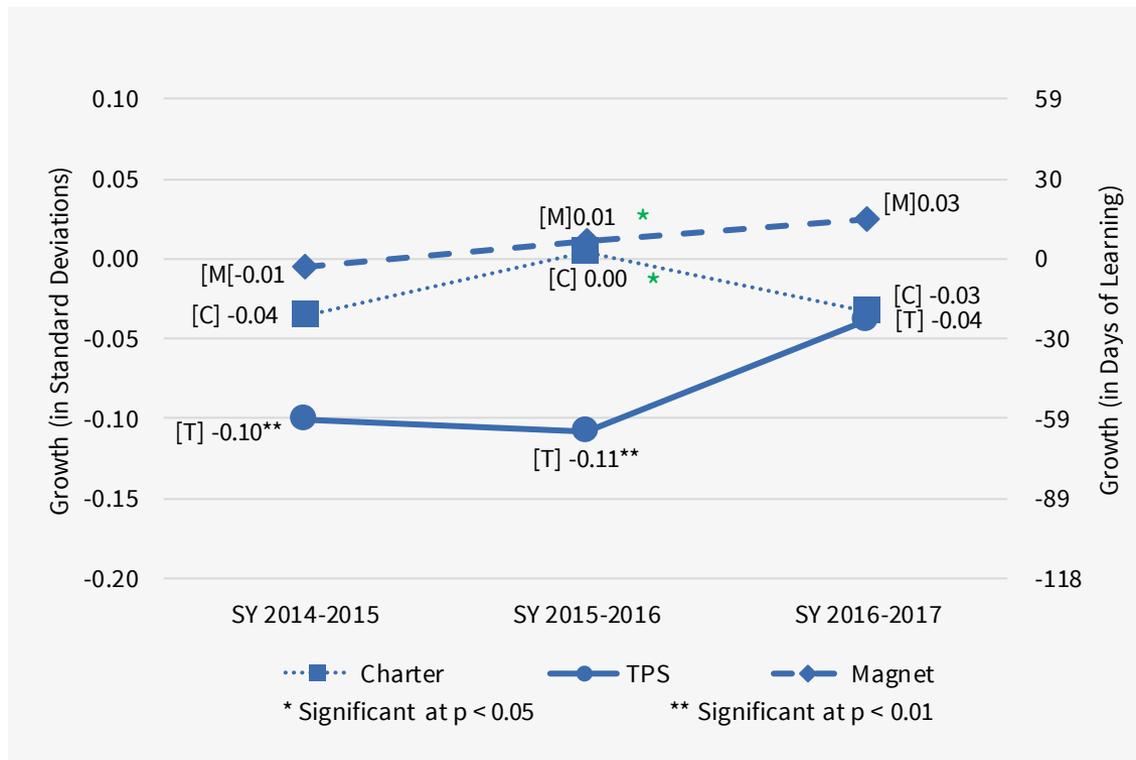
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Sector Analysis: ELA

Learning Gains in ELA for Students in St. Louis Charter Schools, St. Louis Magnet Schools and St. Louis Non-Magnet TPS Compared to the State Average Learning Gains by Year



The 0.00 line represents the average learning gains of the entire state.

These results capture one-year academic growth for the period ending in the Spring of each school year (SY).

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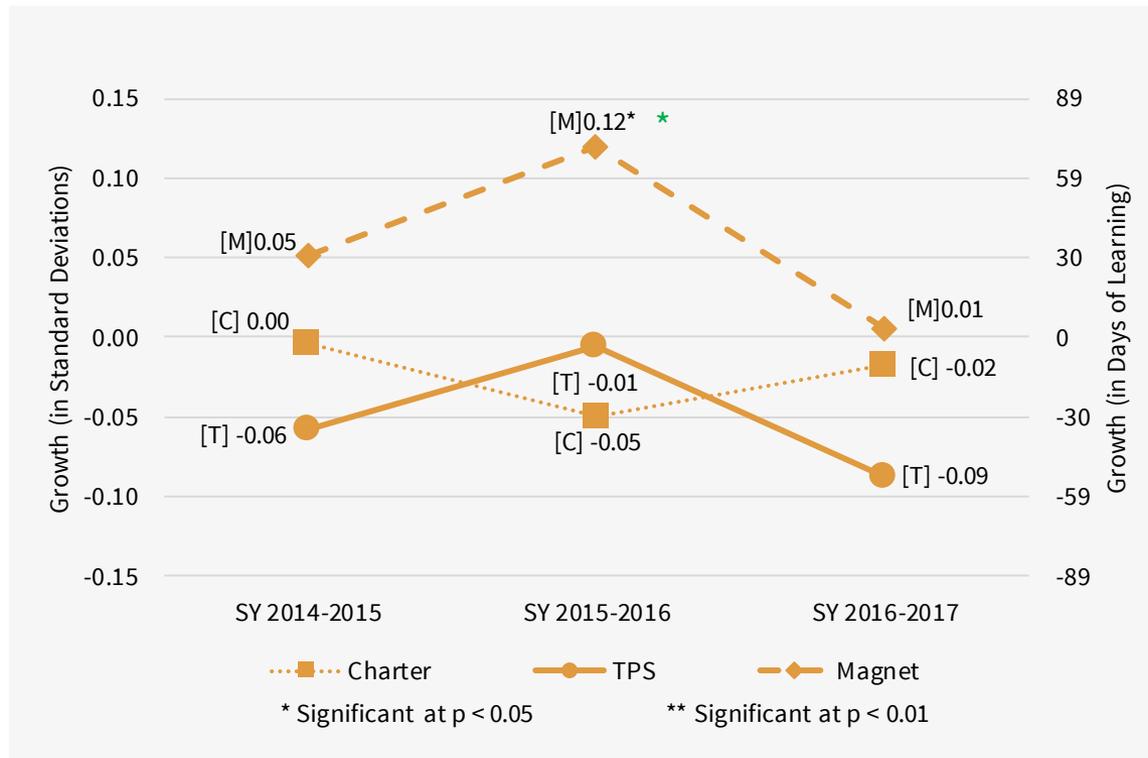
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Sector Analysis: Math

Learning Gains in Math for Students in St. Louis Charter Schools, St. Louis Magnet Schools and St. Louis Non-Magnet TPS Compared to the State Average Learning Gains by Year



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

The 0.00 line represents the average learning gains of the entire state.

These results capture one-year academic growth for the period ending in the Spring of each school year (SY).

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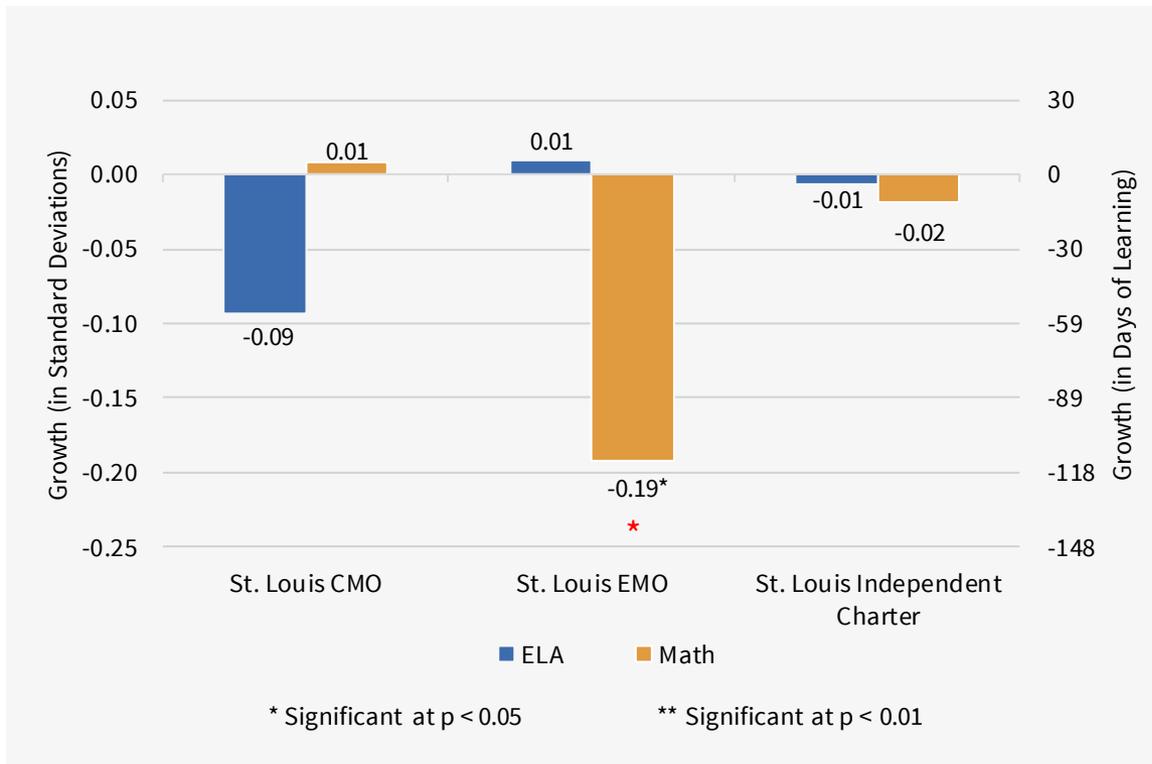
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Charter Network Analysis

Learning Gains for Students in St. Louis Network-Affiliated Charter Schools and Independent St. Louis Charter Schools Compared to the State Average Learning Gains, by Subject



* Growth significantly stronger than that of Independent Charters

* Growth significantly weaker than that of Independent Charters

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The 0.00 line represents the average learning gains of the entire state.
These results capture one-year academic growth for the period ending in Spring 2017.

School-Level Performance by Sector

Click the buttons below for ELA and math growth of individual St. Louis schools relative to the state average by sector. The upper cluster of dots shows where individual charter schools lie on spectrum of growth, and the lower cluster shows that of individual TPS.

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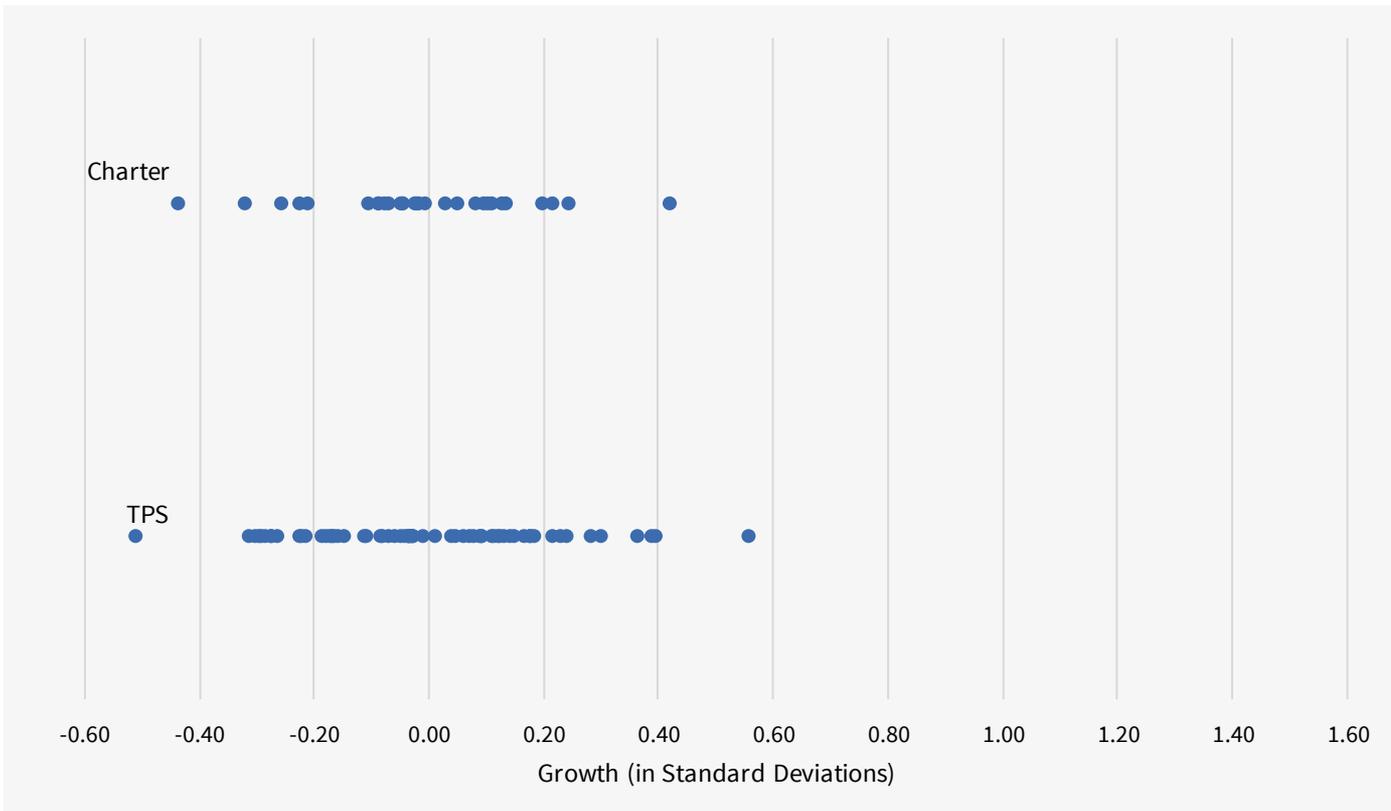
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School Growth by Sector - ELA

Distribution of ELA Learning Gains of Individual St. Louis Schools Compared to the State Average Learning Gains



The 0.00 line represents the average learning gains of the entire state.
These results capture one-year academic growth for the period ending in Spring 2017.

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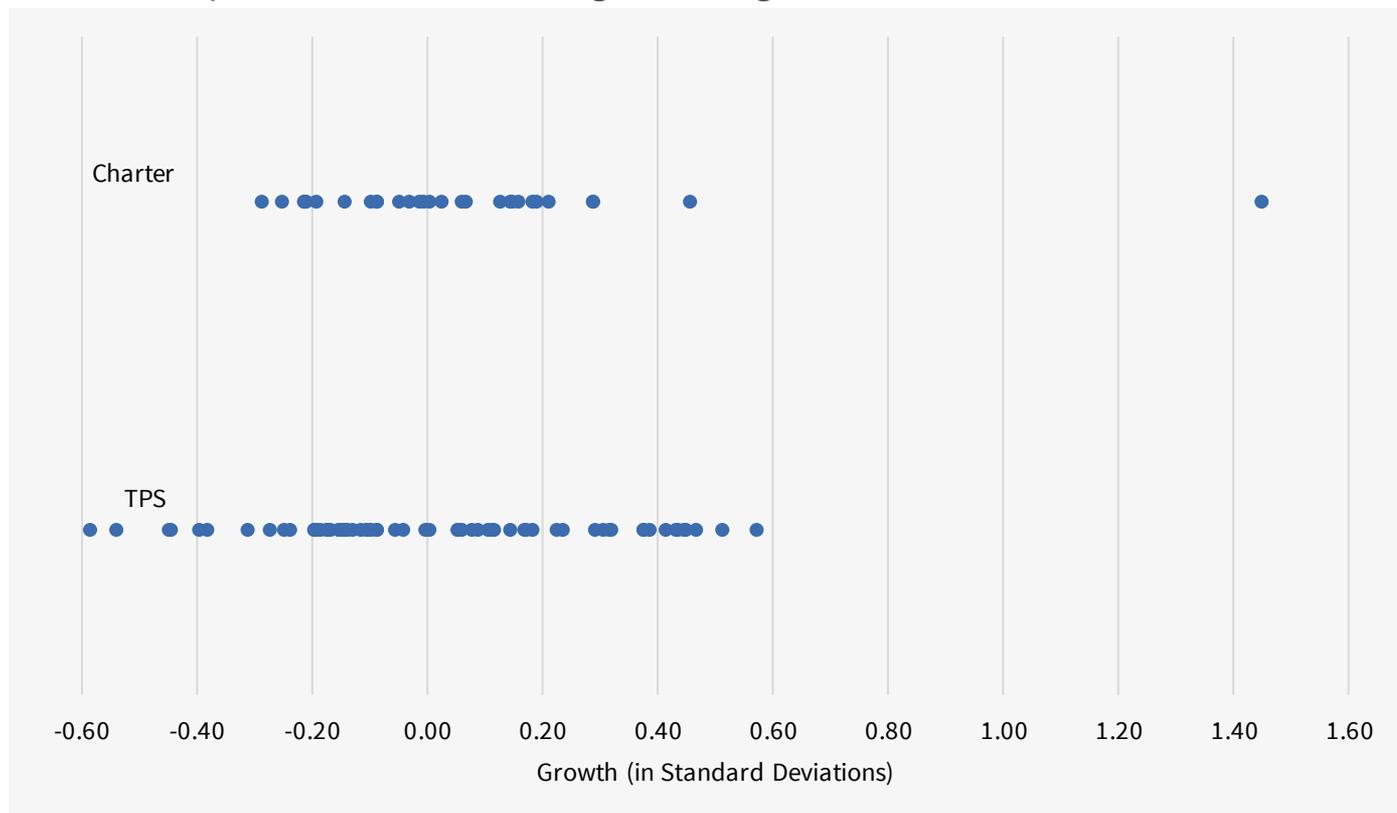
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School Growth by Sector - Math

Distribution of Math Learning Gains of Individual St. Louis Schools Compared to the State Average Learning Gains



The 0.00 line represents the average learning gains of the entire state.
These results capture one-year academic growth for the period ending in Spring 2017.

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Race Analysis

Click the buttons below for graphs showing the performance of Black students in St. Louis or Hispanic students in St. Louis relative to the statewide average learning gains for students of the same race.

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[Hispanic Students](#)

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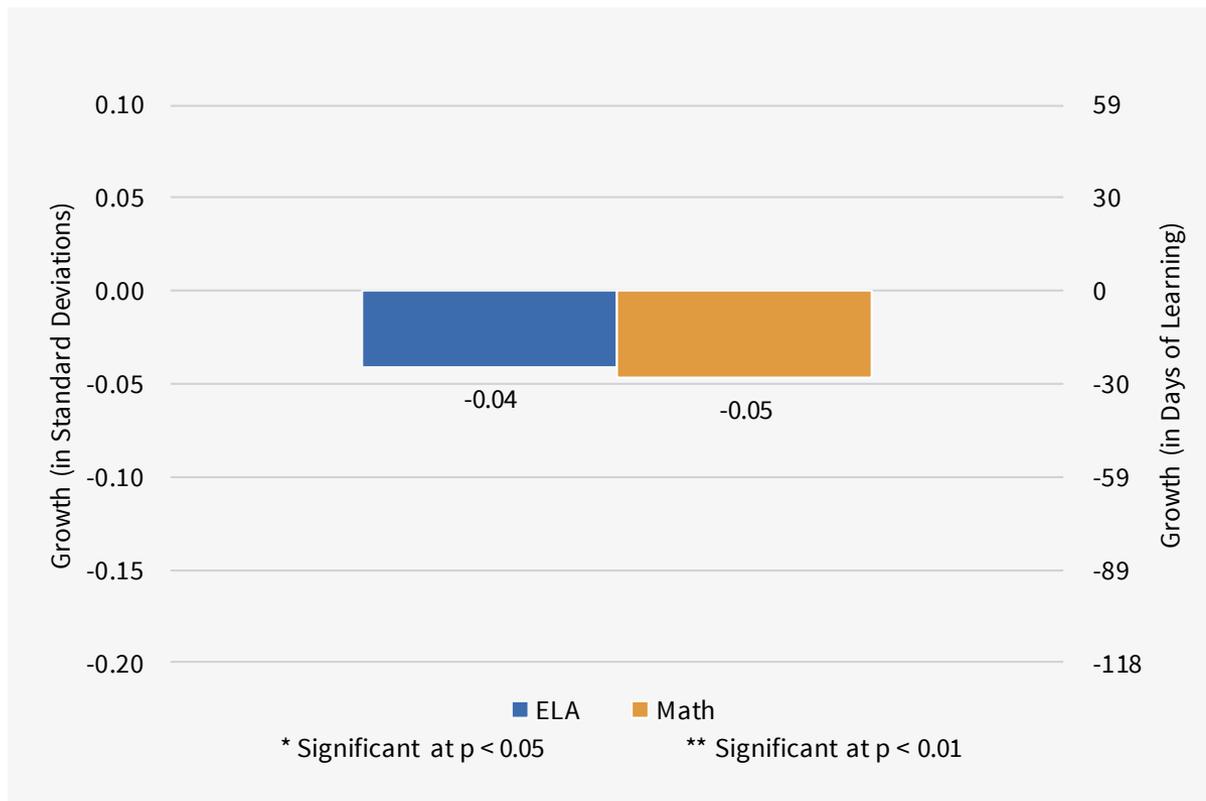
[Gender Analysis](#)

- [Female Students](#)
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Race Analysis: Black Students

[Black Students by Sector](#)

Learning Gains for All St. Louis Black Students Compared to the Average Learning Gains of Black Students Statewide, by Subject



The 0.00 line represents the average learning gains of Black students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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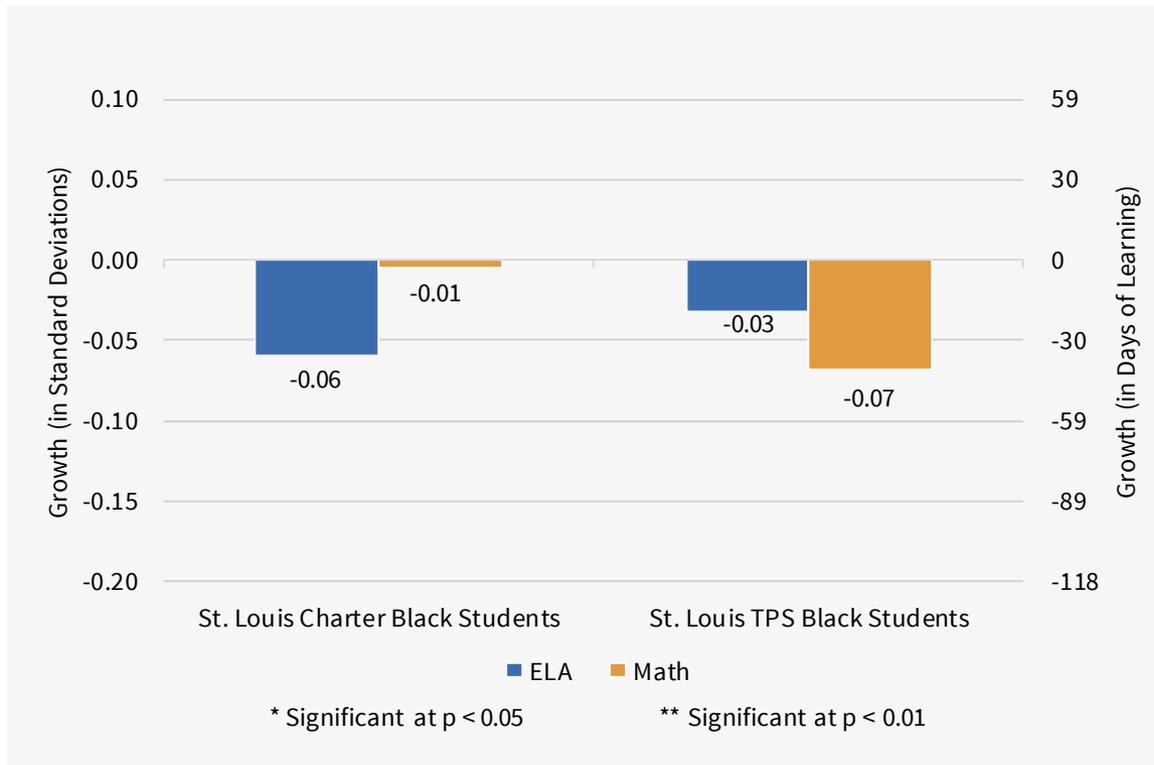
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Race Analysis: Black Students by Sector

Learning Gains for Black Charter School Students and Black TPS Students in St. Louis Compared to the Average Learning Gains of Black Students Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

The 0.00 line represents the average learning gains of Black students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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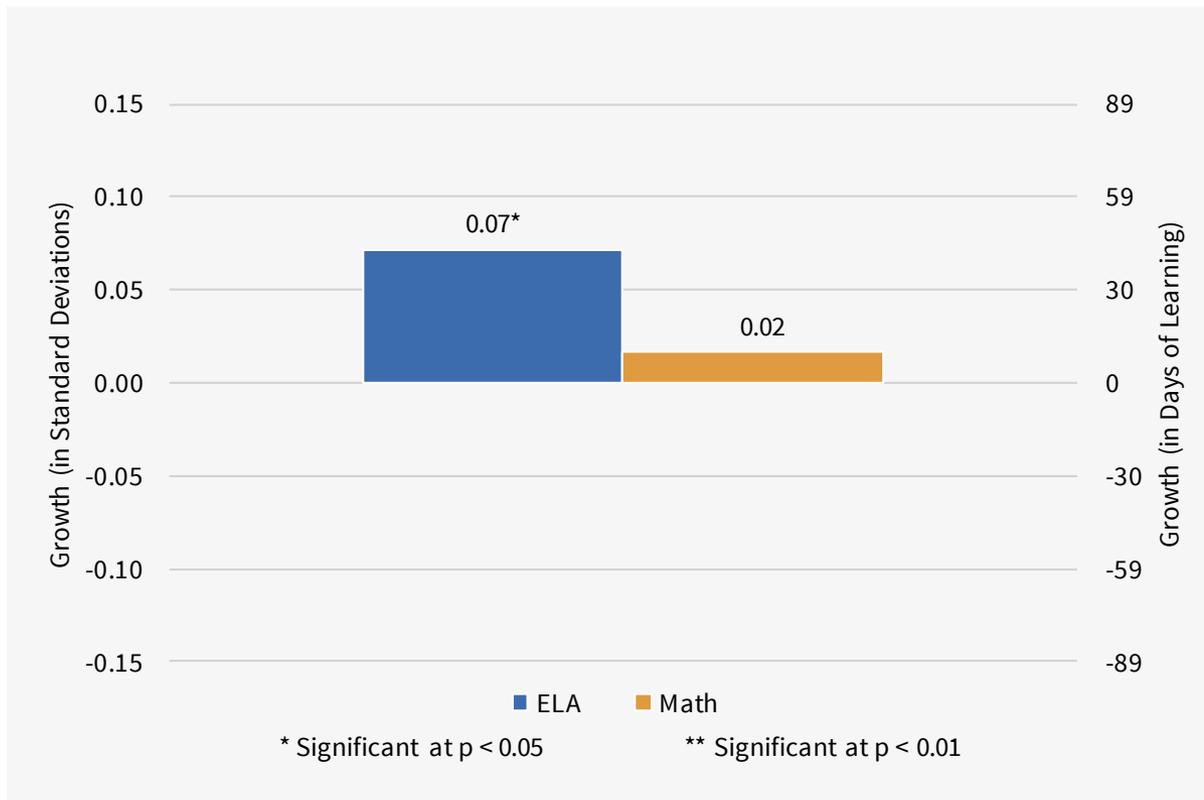
[Gender Analysis](#)

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Race Analysis: Hispanic Students

[Hispanic Students by Sector](#)

Learning Gains for All St. Louis Hispanic Students Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject



The 0.00 line represents the average learning gains of Hispanic students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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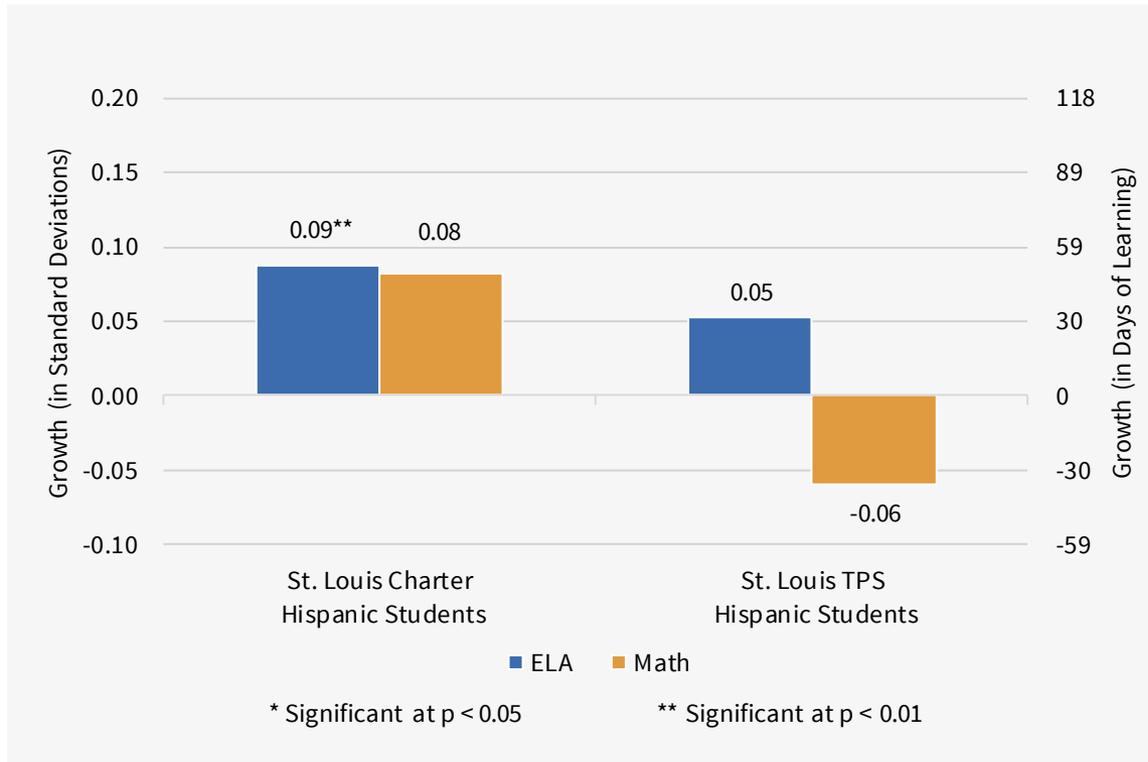
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Race Analysis: Hispanic Students by Sector

Learning Gains for Hispanic Charter School Students and Hispanic TPS Students in St. Louis Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

The 0.00 line represents the average learning gains of Hispanic students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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Subgroup Analyses

Click the buttons below for graphs showing the performance of St. Louis students in poverty, St. Louis students with English Language Learner designation, or St. Louis students receiving special education services relative to average learning gains of students of the same subgroup statewide.

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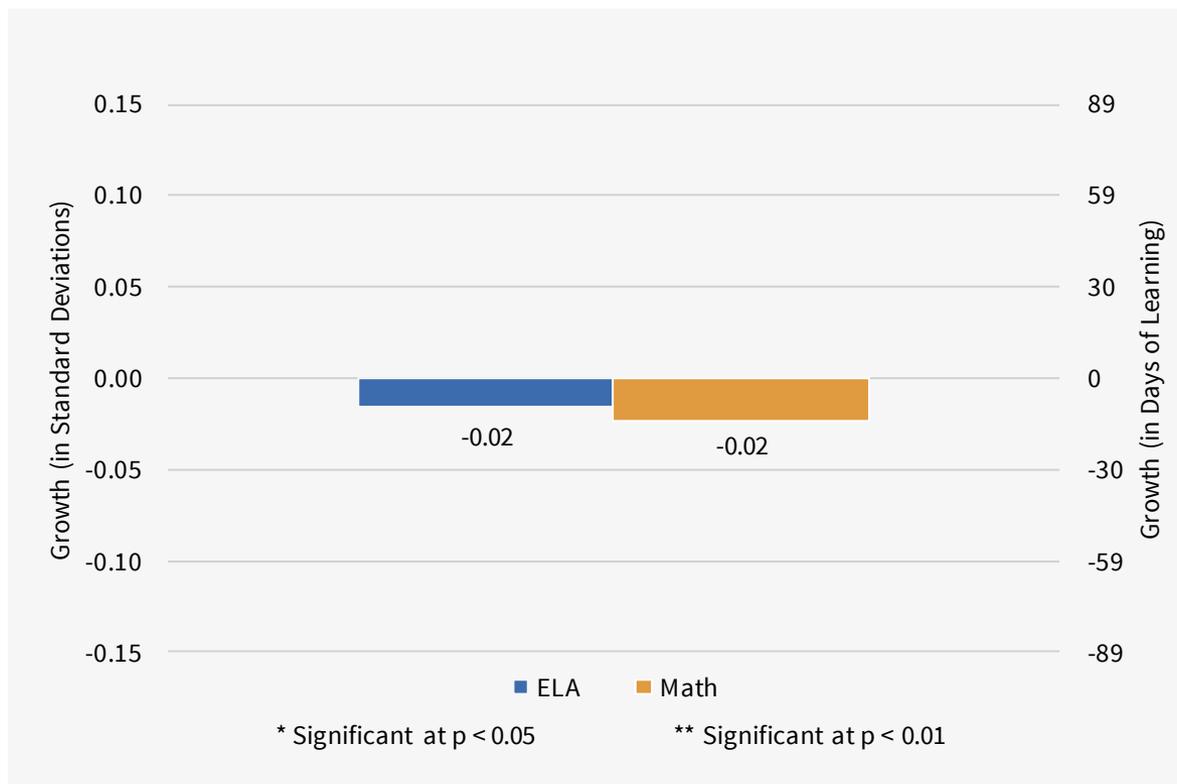
[Gender Analysis](#)

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Subgroup Analyses: Poverty Status Analysis

Poverty
Status
by Sector

Learning Gains for All St. Louis Students in Poverty Compared to the Average Learning Gains of Students in Poverty Statewide, by Subject



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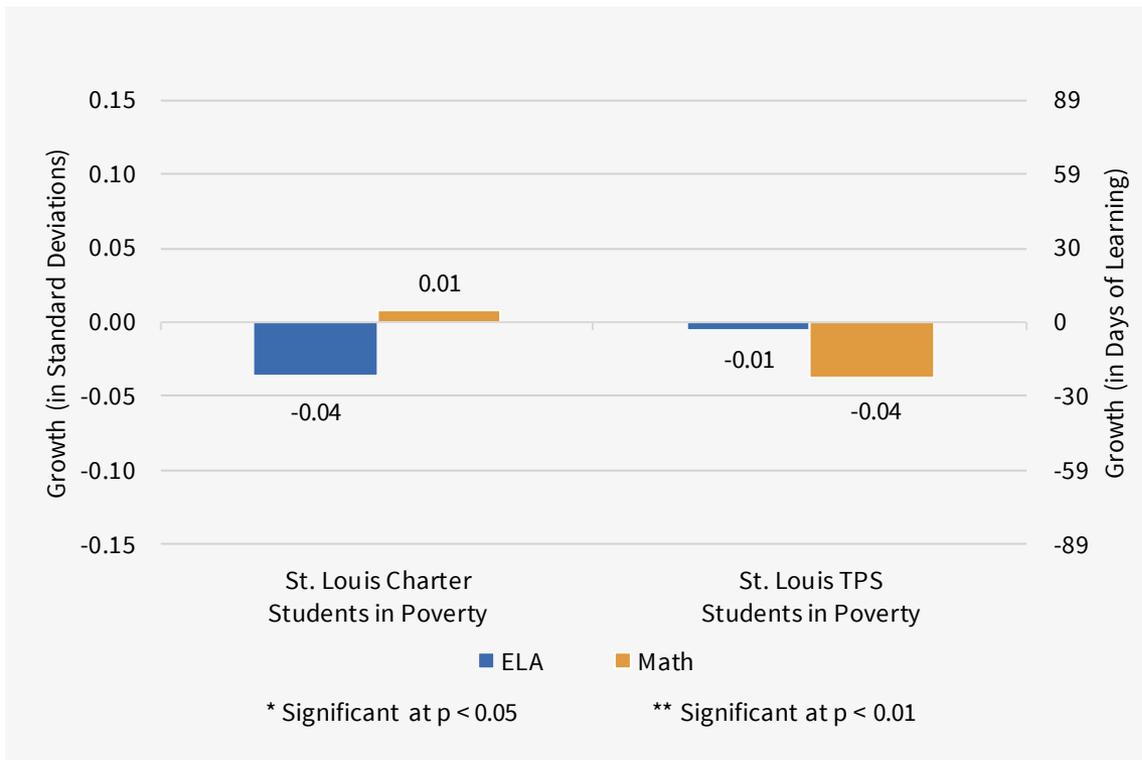
[Gender Analysis](#)

- [Female Students](#)
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The 0.00 line represents the average learning gains of students in poverty in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Subgroup Analyses: Poverty Status by Sector

Learning Gains for St. Louis Charter School Students in Poverty and St. Louis TPS Students in Poverty Compared to the Average Learning Gains of Students in Poverty Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

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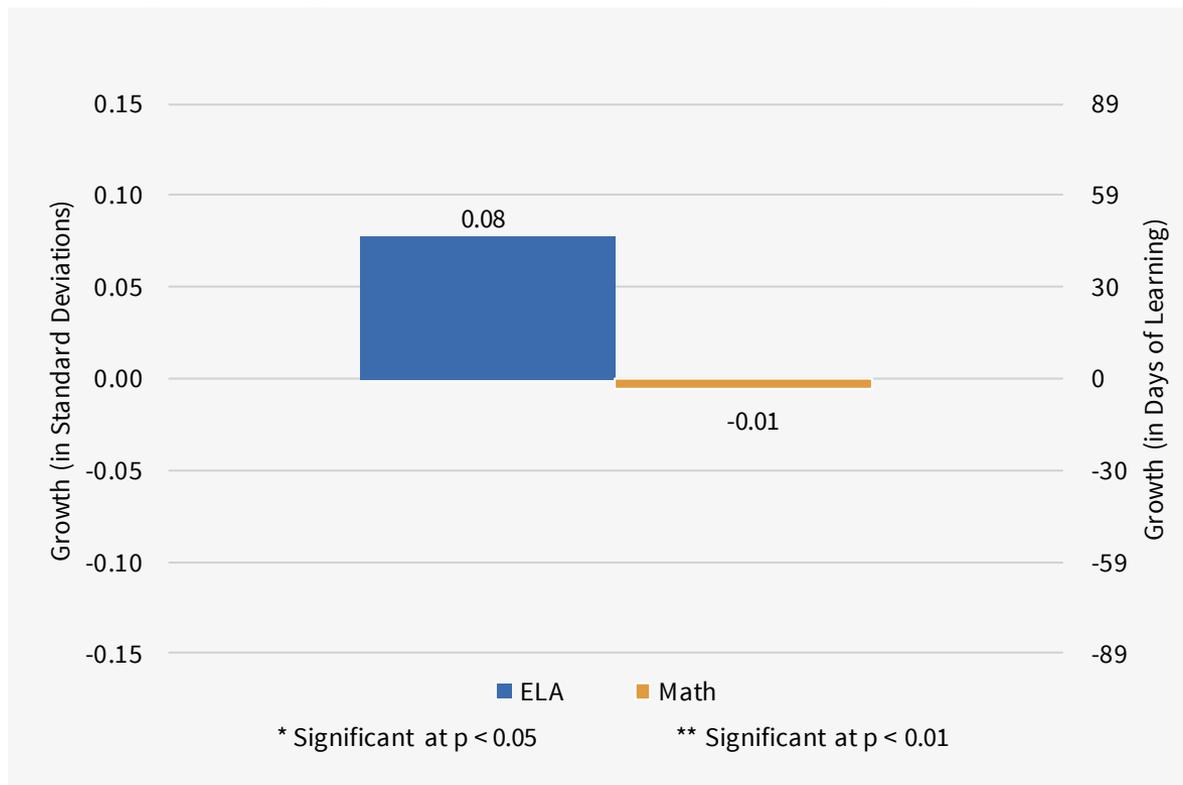
- [Female Students](#)
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The 0.00 line represents the average learning gains of students in poverty in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Subgroup Analyses: English Language Learner Status Analysis

[ELL Status by Sector](#)

Learning Gains for All ELL Students in St. Louis Compared to the Average Learning Gains of ELL Students Statewide, by Subject



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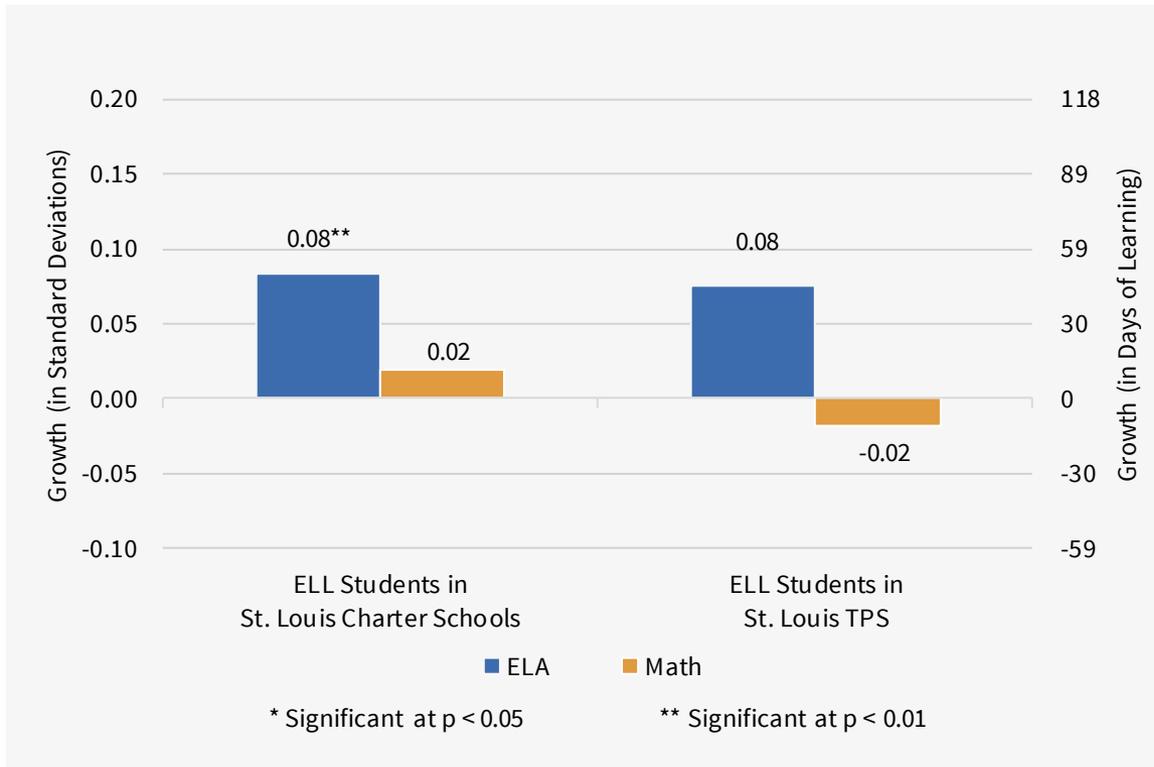
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The 0.00 line represents the average learning gains of ELL students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Subgroup Analyses: English Language Learner Status by Sector

Learning Gains for ELL Students in St. Louis Charter Schools and ELL Students in St. Louis TPS Compared to the Average Learning Gains of ELL Students Statewide, by Subject



The 0.00 line represents the average learning gains of ELL students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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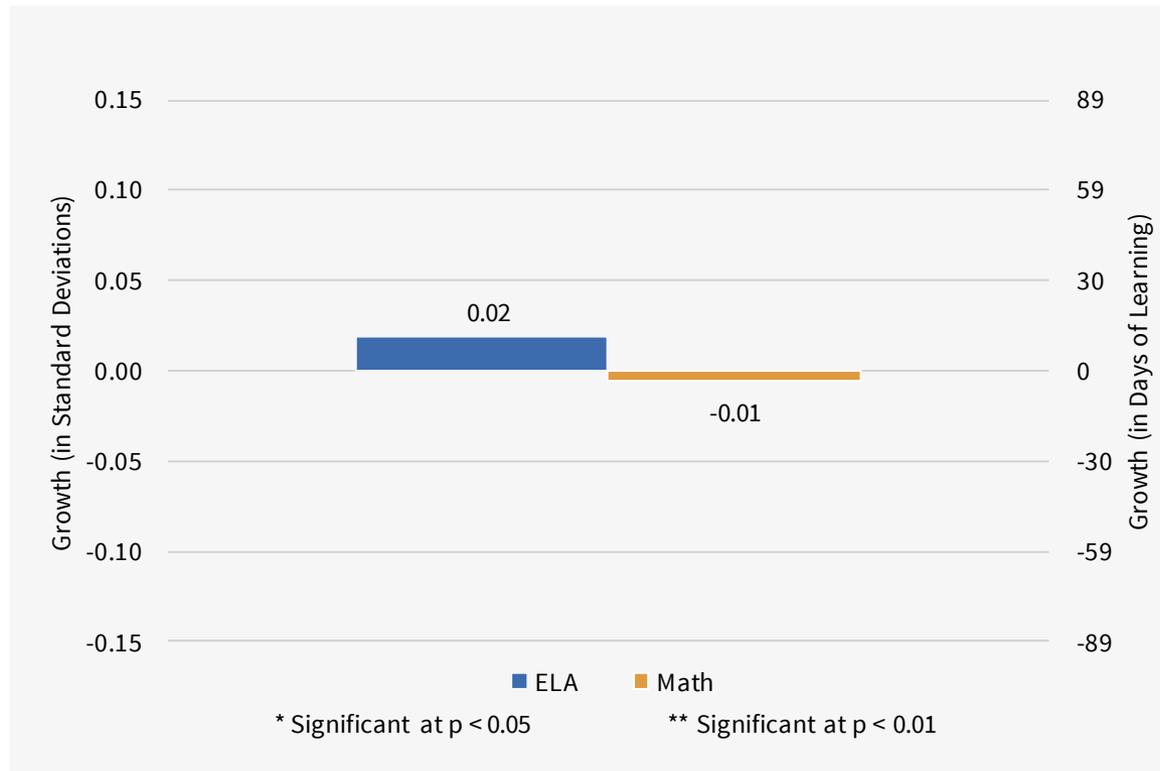
Gender Analysis

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Subgroup Analyses: Special Education Status Analysis

Special
Ed.
by Sector

Learning Gains for All St. Louis Students in Special Education Compared to the Average Learning Gains of Students in Special Education Statewide, by Subject



The 0.00 line represents the average learning gains of students in Special Ed. in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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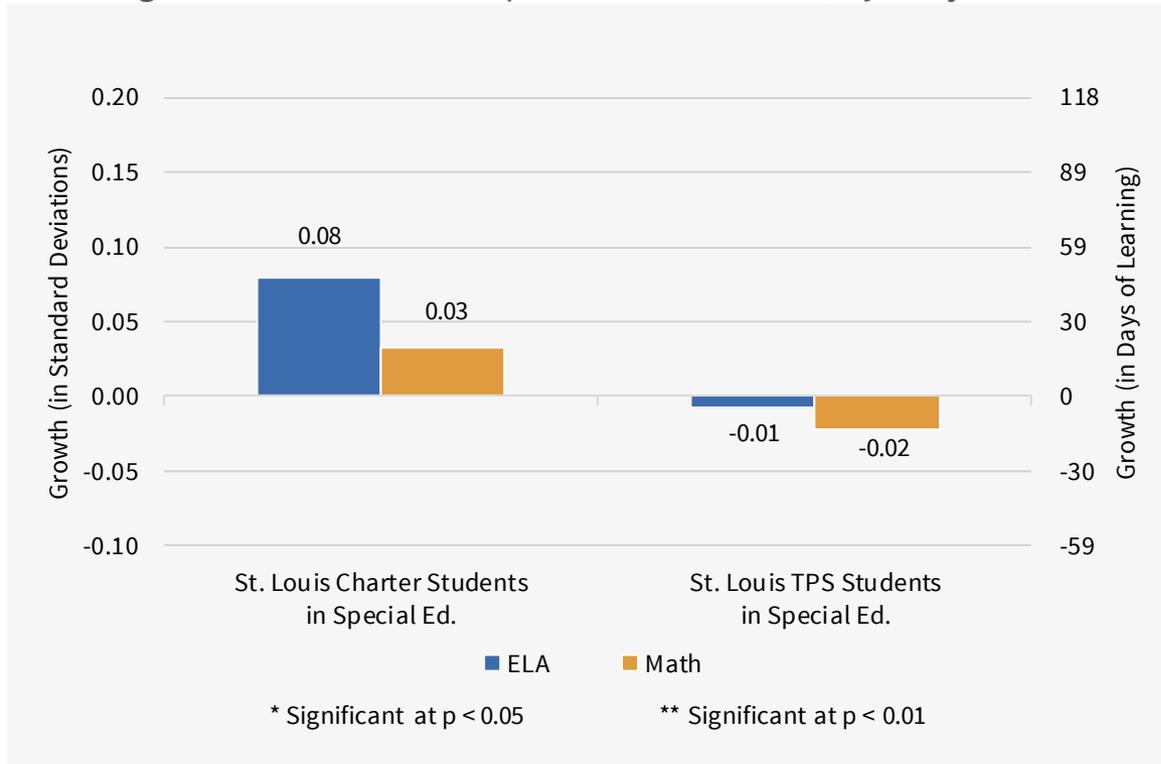
- Poverty Status
- ELL Status
- Special Ed. Status

Gender Analysis

- Female Students
- Male Students

Subgroup Analyses: Special Education Status by Sector

Learning Gains for St. Louis Charter School Students in Special Ed. and St. Louis TPS Students in Special Ed. Compared to the Average Learning Gains of Students in Special Ed. Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

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The 0.00 line represents the average learning gains of students in Special Ed. in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Gender Analysis

Click the buttons below for graphs showing the performance of female students in St. Louis or male students in St. Louis relative to statewide average learning gains for the same gender.

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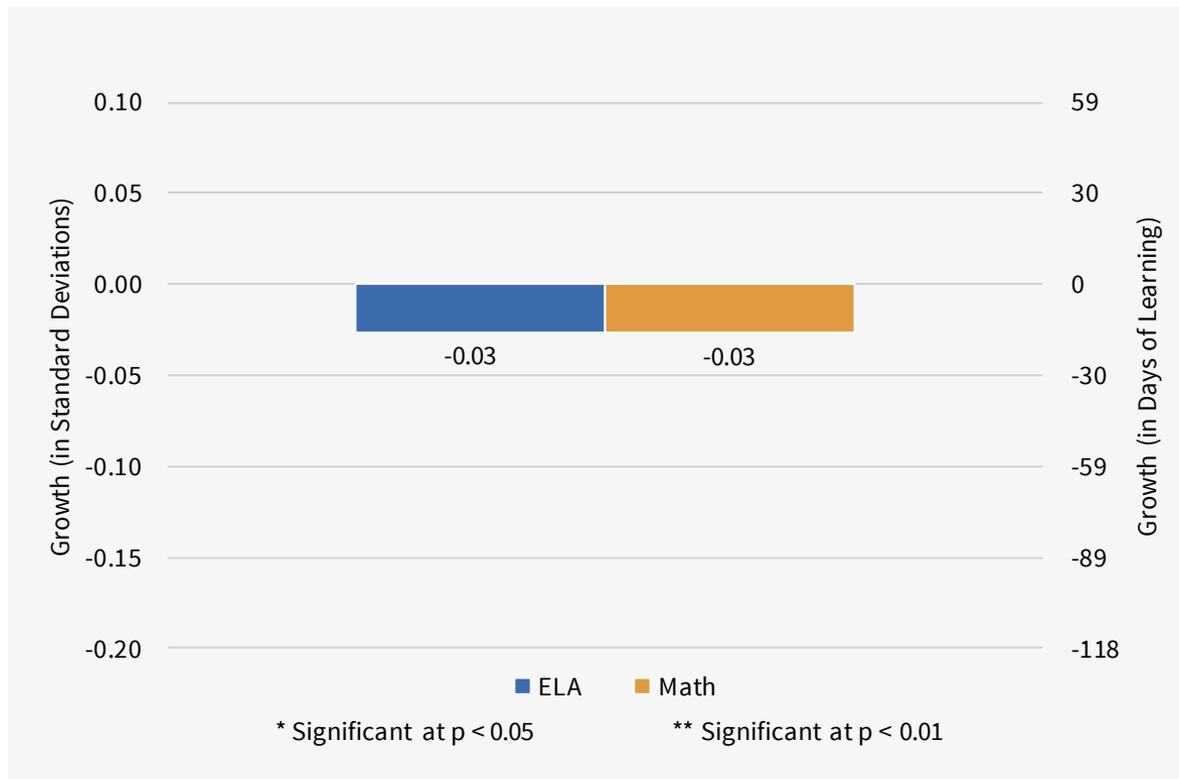
[Gender Analysis](#)

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Gender Analysis: Female Students

[Female Students by Sector](#)

Learning Gains for All St. Louis Female Students Compared to the Average Learning Gains of Female Students Statewide, by Subject



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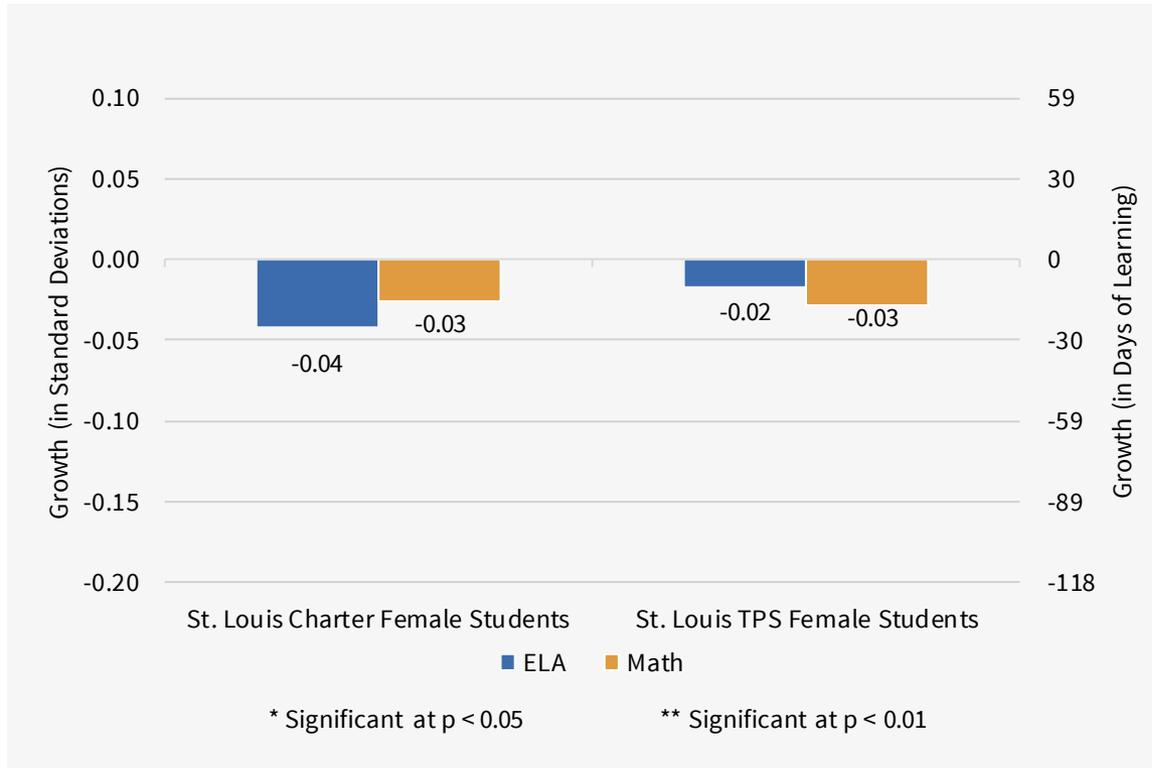
[Gender Analysis](#)

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The 0.00 line represents the average learning gains of female students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Gender Analysis: Female Students by Sector

Learning Gains for Female Charter School Students and Female TPS Students in St. Louis Compared to the Average Learning Gains of Female Students Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

The 0.00 line represents the average learning gains of female students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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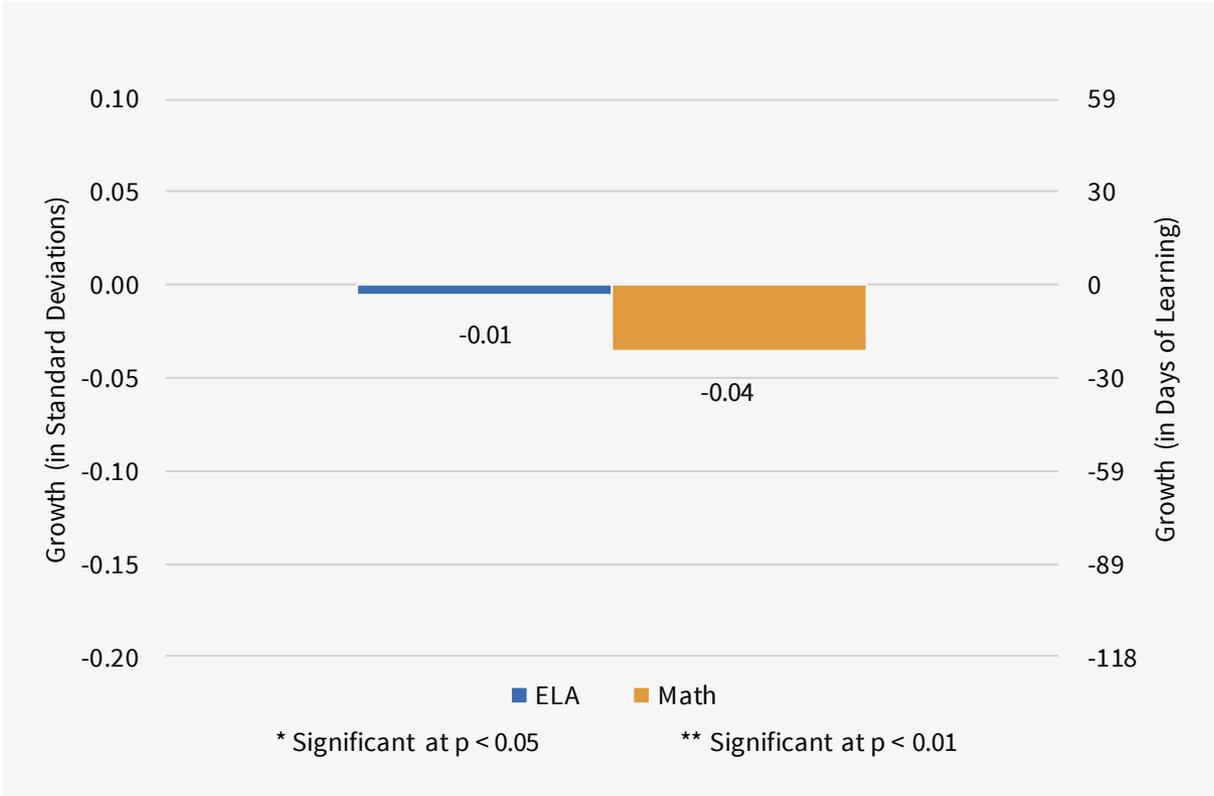
[Gender Analysis](#)

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Gender Analysis: Male Students

[Male Students by Sector](#)

Learning Gains for All St. Louis Male Students Compared to the Average Learning Gains of Male Students Statewide, by Subject



The 0.00 line represents the average learning gains of male students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

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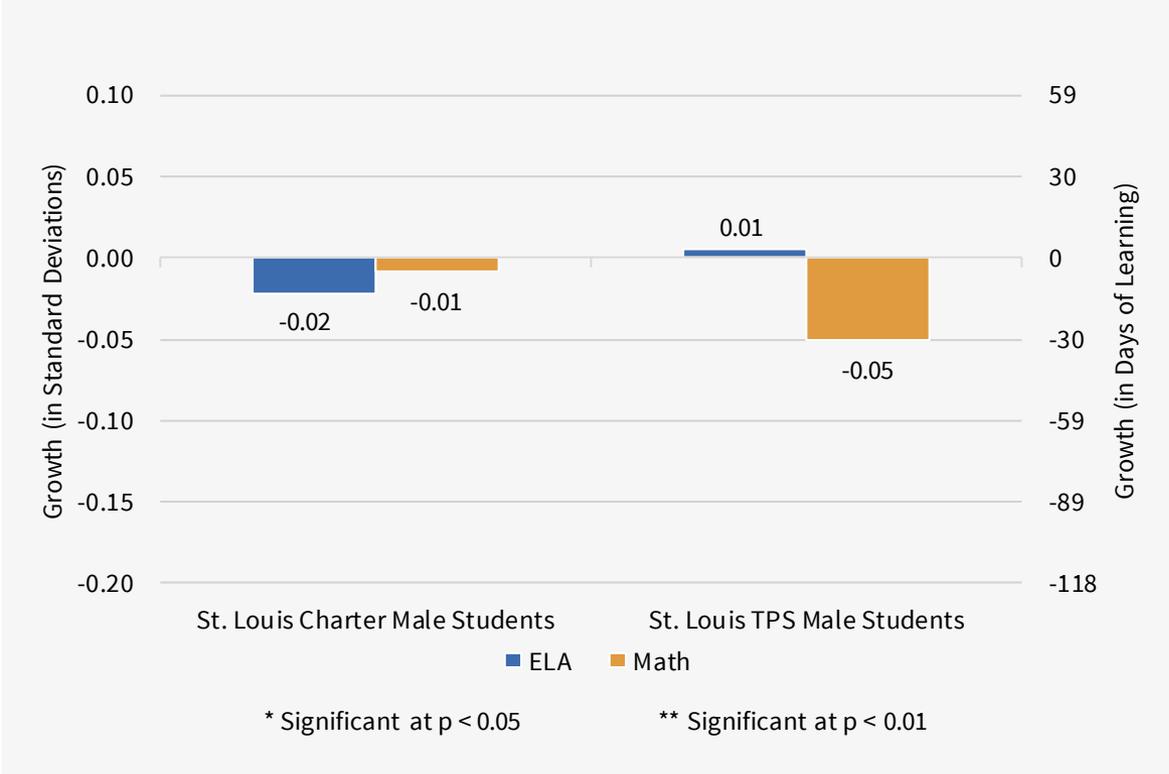
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Gender Analysis: Male Students by Sector

Learning Gains for Male Charter School Students and Male TPS Students in St. Louis compared to the Average Learning Gains of Male Students Statewide, by Subject



* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

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The 0.00 line represents the average learning gains of male students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

Summary of Findings

The summary of the findings from the analysis of St. Louis schools is presented [here](#).