City Study 2022:

AUSTIN



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REPORT OVERVIEW 1







About The City Studies Project





performance.

Sectors of Schools

COMMUNITIES MAY HAVE UP TO THREE SECTORS OF SCHOOLS



CHARTER SCHOOLS

Public schools operated independently from the traditional school district, with autonomy in adapting school designs and held accountable for education results.



Charter Management Organizations (CMOs)

Organizations holding the charter and overseeing the operation of at least three charter schools.



Independent Charter Schools

Organizations holding the charter and overseeing the operation of a single or two charter schools.



SELECTIVE MAGNET SCHOOLS

District-run schools with focused themes and academically selective admission.

There are only two selective magnet schools with student growth scores in Austin during the span of this study.; We redact the results for this type due to the small number of the schools.



OTHER DISTRICT-RUN SCHOOLS

Public schools not belonging to any of above two types.





Research Question and Analyses

IN THIS REPORT WE EXAMINE ACADEMIC PERFORMANCE IN AUSTIN USING DATA FROM THE SCHOOL YEARS 2017-18 THROUGH 2018-19. THERE ARE THREE LEVELS OF ANALYSIS.



Overall performance in Austin schools over one growth period.



Performance for Austin charter schools and the other public schools in Austin over one growth period.



Performance in the 2018-2019 school year by school type, race, poverty status, English language learner (ELL) status, special education status and gender.

WE MAKE TWO SETS OF COMPARISONS.

- The performance of Austin students is benchmarked against the state average performance, accounting for student characteristics.
- The performance of charter school students within Austin are then compared to that of similar traditional public school (district school) students within Austin.





Measure of Academic Performance

ACHIEVEMENT VS. GROWTH

Achievement scores capture what a student knows at a point in time. They are influenced by students' prior conditions in addition to schools' contributions.

Growth scores indicate how much progress a student makes from one year to the next. Growth scores allow us to zero in on the contributions of schools separately from other factors that affect point-in-time scores.

IN THIS STUDY WE MEASURE ACADEMIC PERFORMANCE AS HOW MUCH GROWTH STUDENTS MAKE FROM ONE YEAR TO THE NEXT.

We analyze student growth in standard deviation units so that the results can be assessed for statistical differences. The full set of findings appear in the Appendix.

In the following graphs of findings, we transform growth from standard deviation units into days of learning based on a typical 180-day school year.





O RESEARCH FINDINGS 02

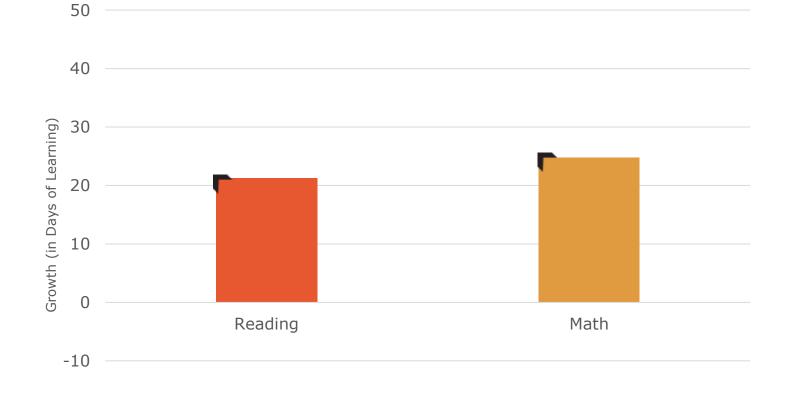






Research Findings > Overall Austin Results

> Reading & Math



SY 2018-19

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



significantly different at p< 0.05



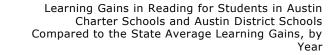
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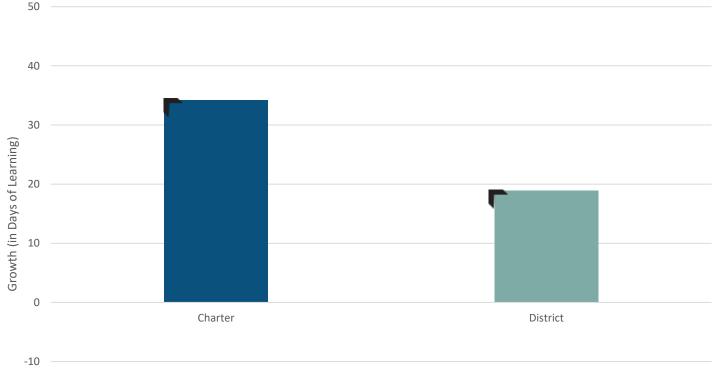




Research Findings > Sector Analysis > Reading

VS. STATE & COMPARISON WITHIN AUSTIN





Tests of Differences

Reading

'18-'19

Charter vs. District







significantly different at p< 0.05



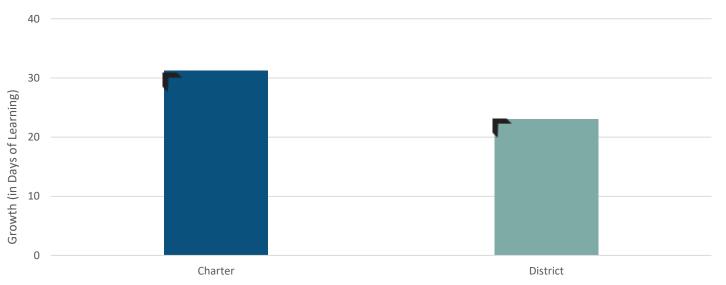




Research Findings > Sector Analysis > Math

VS. STATE & COMPARISON WITHIN AUSTIN





Tests of Differences

Math

'18-'19

Charter vs. District

>





significantly different at p< 0.05

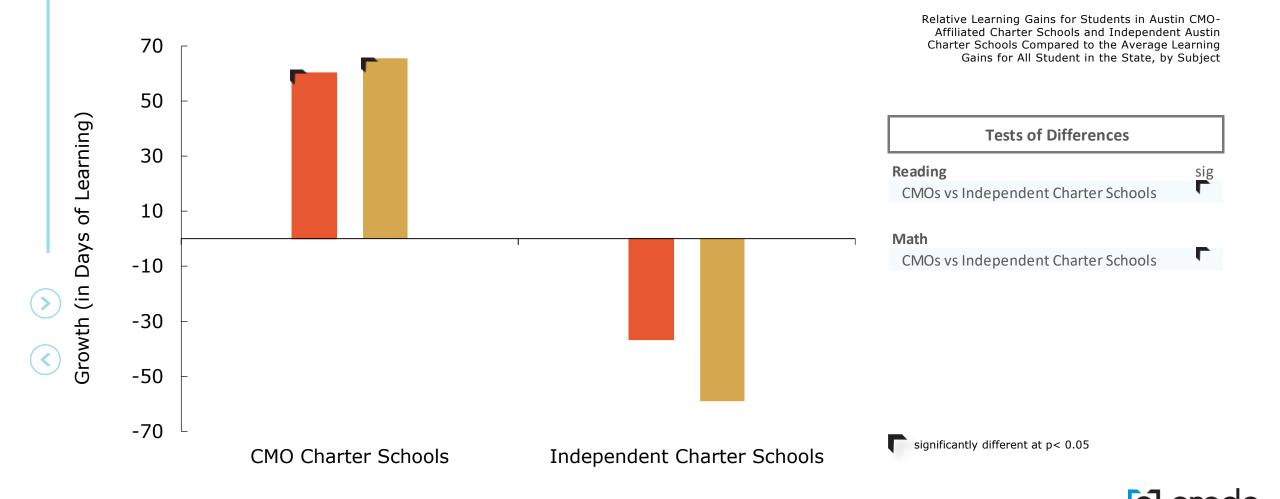




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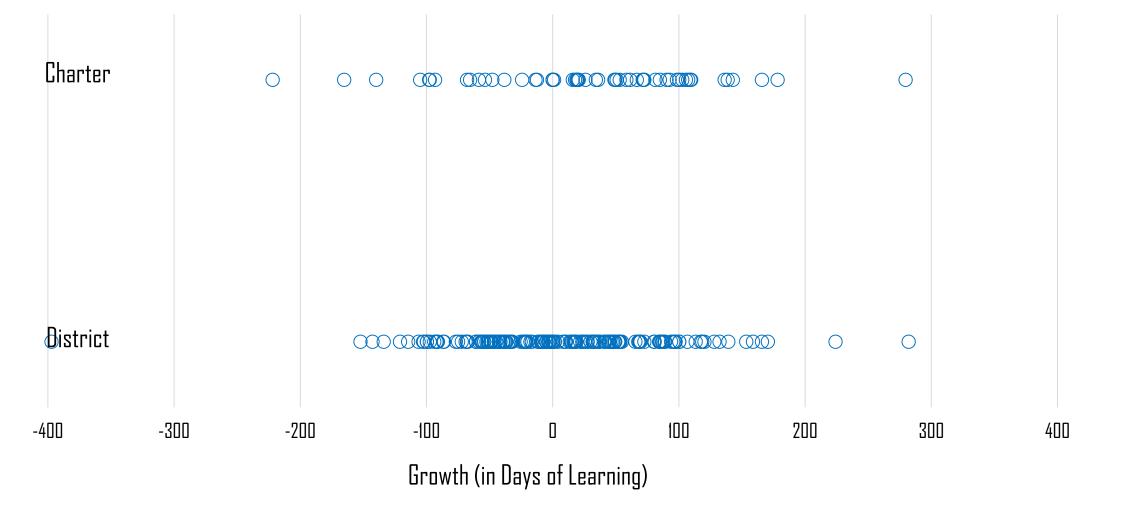


Research Findings > Charter Subsector Analysis > vs. state & comparison within Austin



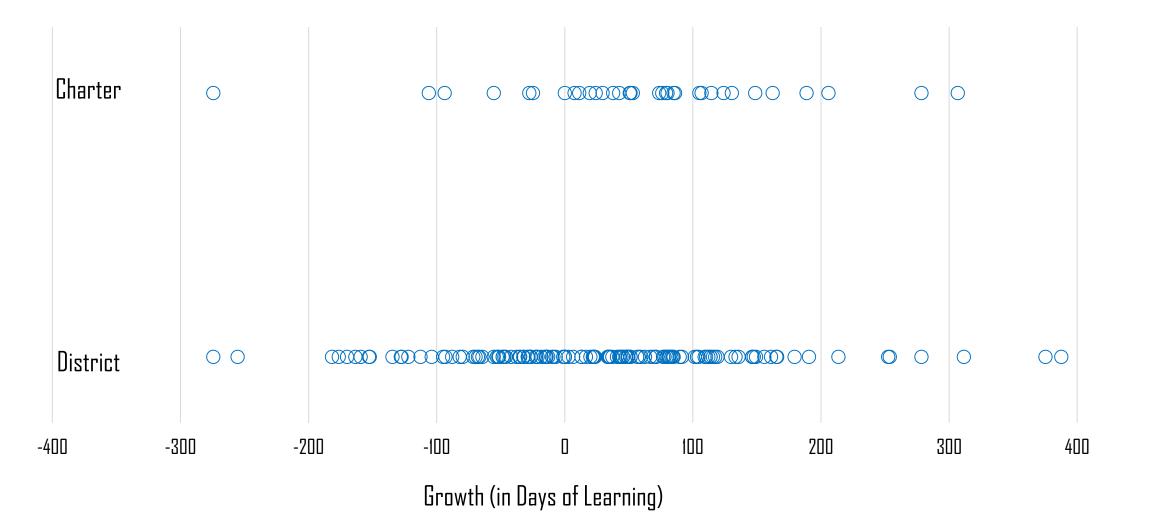
reading

Research Findings > School-Level Performance by Sector > Reading





Research Findings > School-Level Performance by Sector > Math



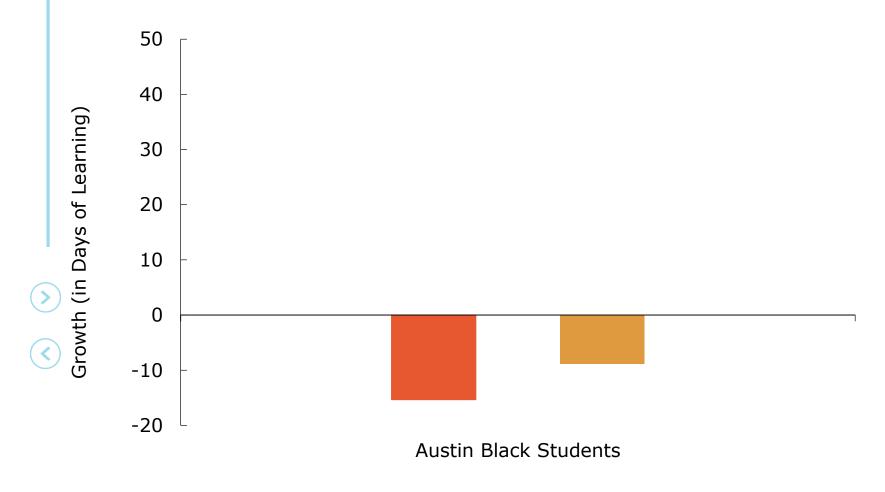


Research Findings > Student Subgroup Analysis

> Black Students

ALL VS. STATE

Learning Gains for All Austin Black Students Compared to the Average Learning Gains of Black Students Statewide, by Subject



significantly different at p< 0.05

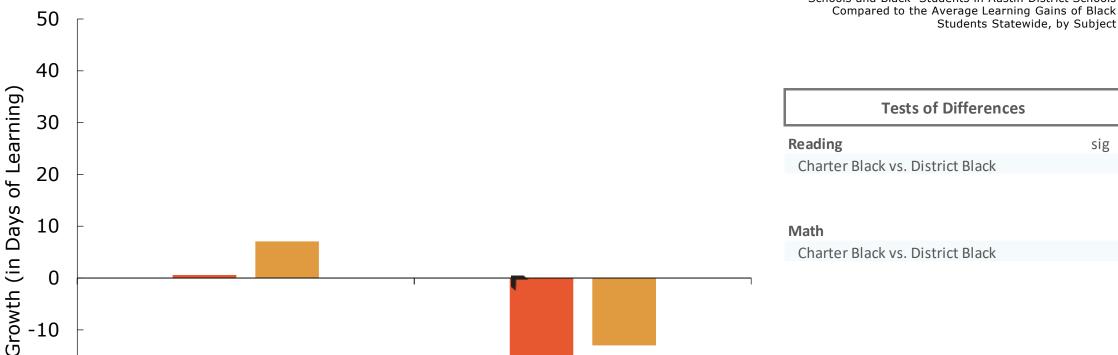




Research Findings > Student Subgroup Analysis > Black Students

VS. STATE BY SECTOR & COMPARISON WITHIN

Learning Gains for Black Students in Austin Charter Schools and Black Students in Austin District Schools



Austin District

Black Students

significantly different at p< 0.05



Austin Charter

Black Students

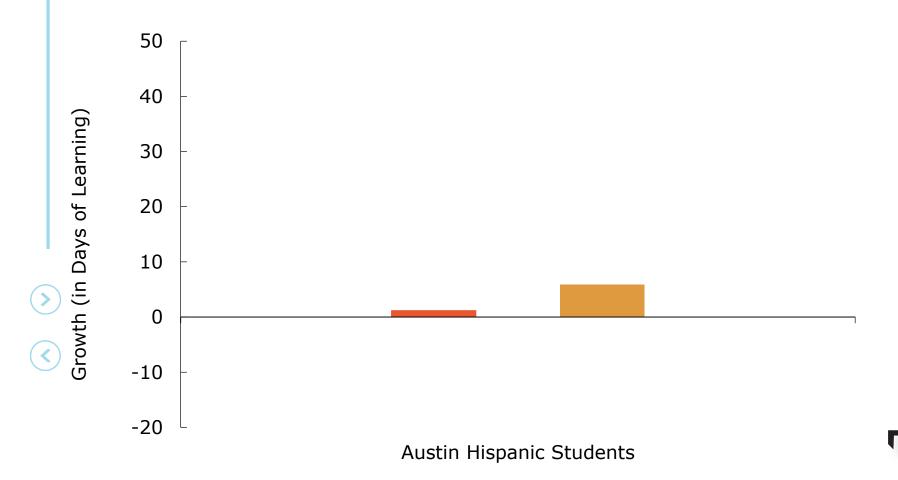
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Research Findings > Student Subgroup Analysis > Hispanic Students

ALL VS. STATE

Learning Gains for All Austin Hispanic Students Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject



significantly different at p< 0.05

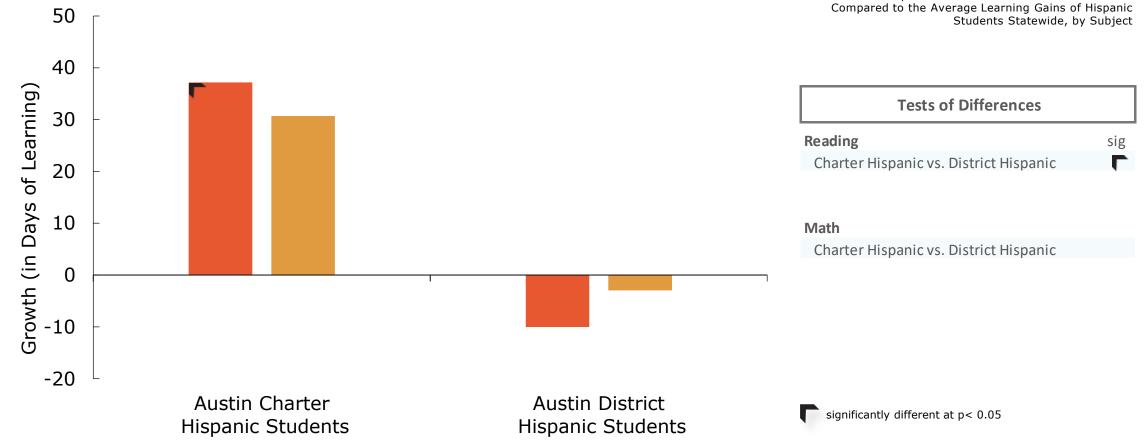




Research Findings > Student Subgroup Analysis > Hispanic Students

VS. STATE BY SECTOR & COMPARISON WITHIN AUSTIN

Learning Gains for Hispanic Students in Austin Charter Schools and Hispanic Students in Austin District Schools Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject



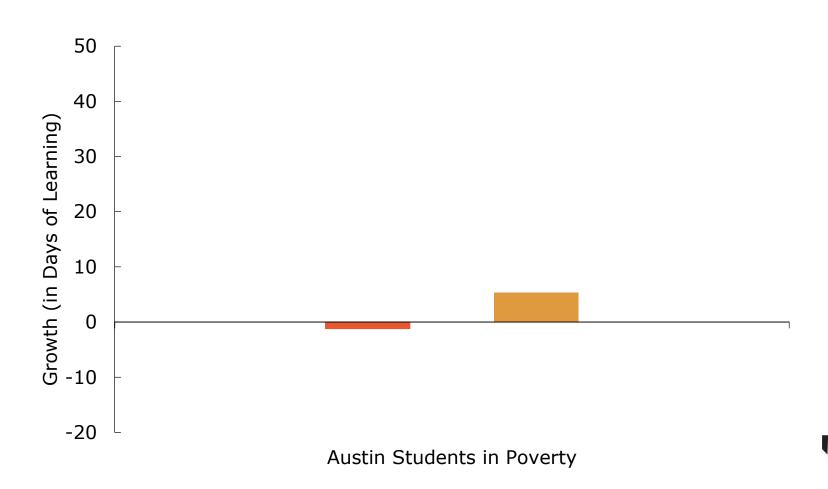
reading



Research Findings > Student Subgroup Analysis > Students in Poverty

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

ALL VS. STATE



significantly different at p< 0.05



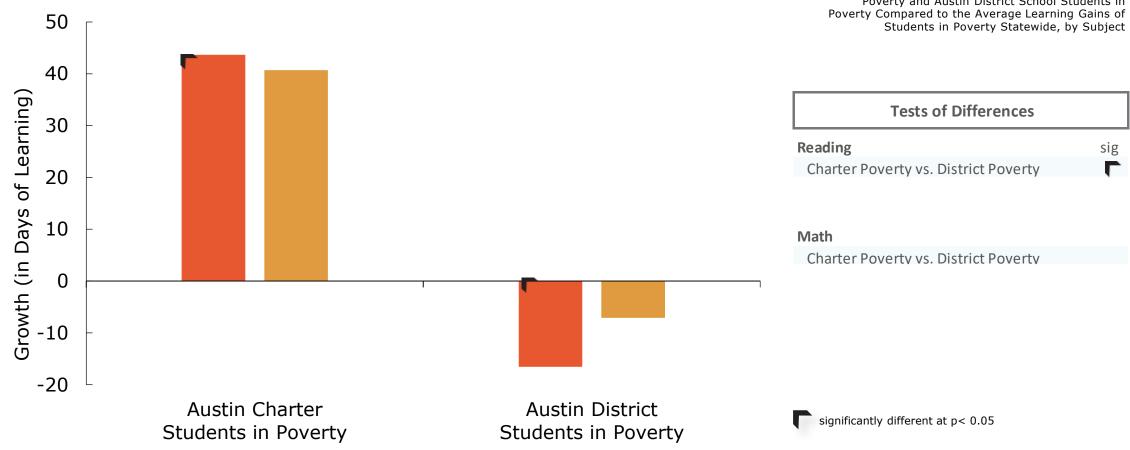




Research Findings > Student Subgroup Analysis > Students in Poverty

VS. STATE BY SECTOR & COMPARISON WITHIN

Learning Gains for Austin Charter School Students in Poverty and Austin District School Students in



reading

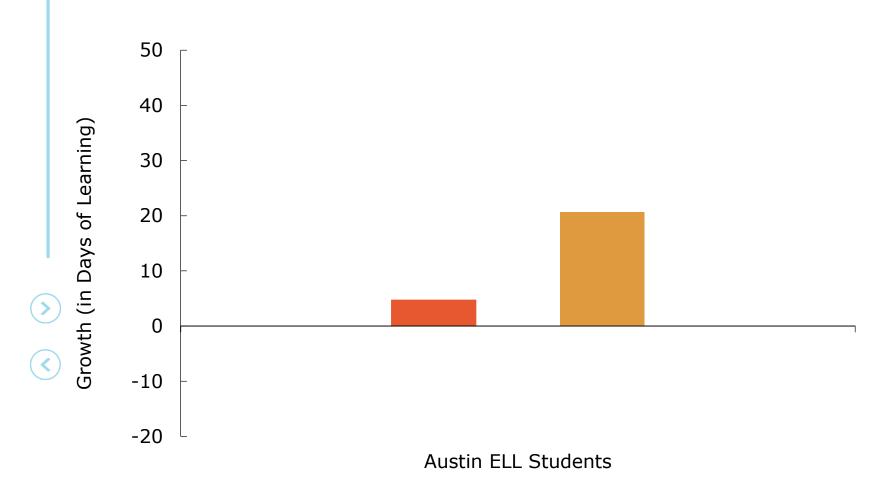


Research Findings > Student Subgroup Analysis

> ELL Students

ALL VS. STATE

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



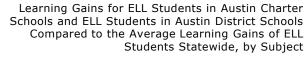
significantly different at p< 0.05

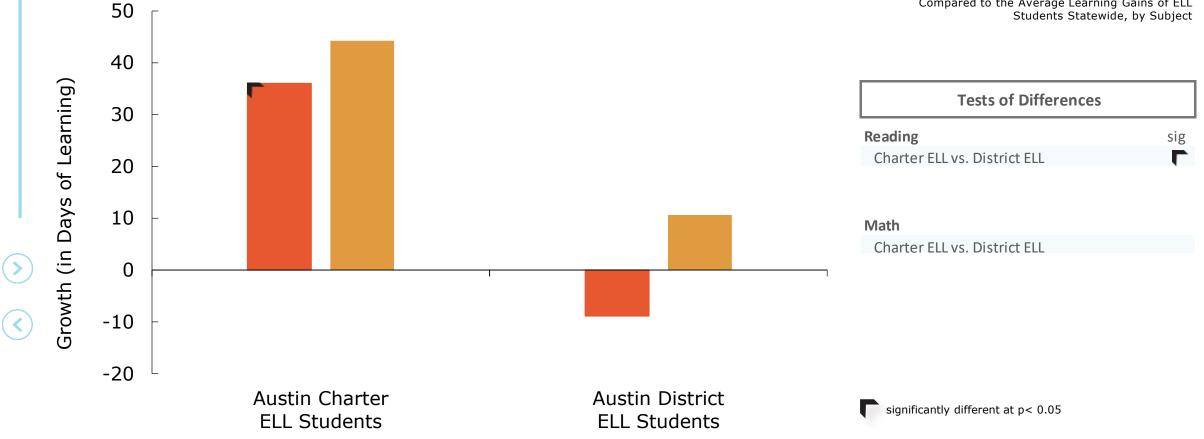




Research Findings > Student Subgroup Analysis > ELL Students

VS. STATE BY SECTOR & COMPARISON WITHIN AUSTIN





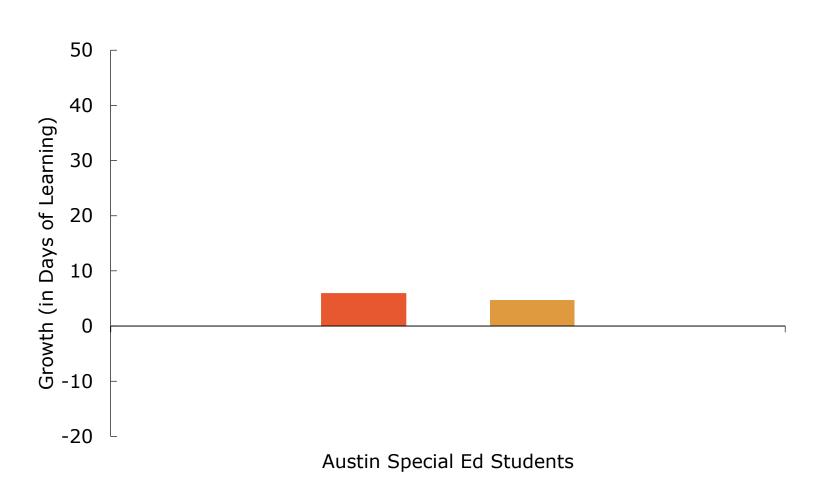
reading



Research Findings > Student Subgroup Analysis > Special Ed Students

ALL VS. STATE

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



significantly different at p< 0.05

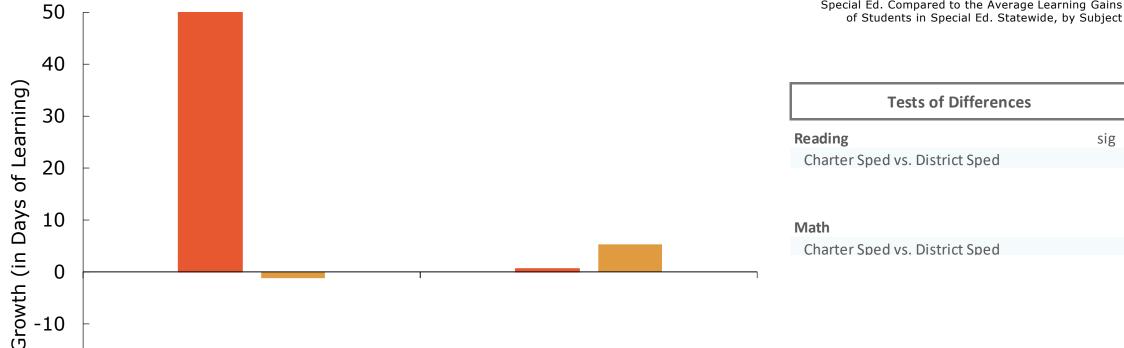






Research Findings > Student Subgroup Analysis > Special Ed Students

Learning Gains for Austin Charter School Students in Special Ed. and Austin District School Students in Special Ed. Compared to the Average Learning Gains



Austin Charter Students in Special Ed.

Austin District Students in Special Ed.

significantly different at p< 0.05



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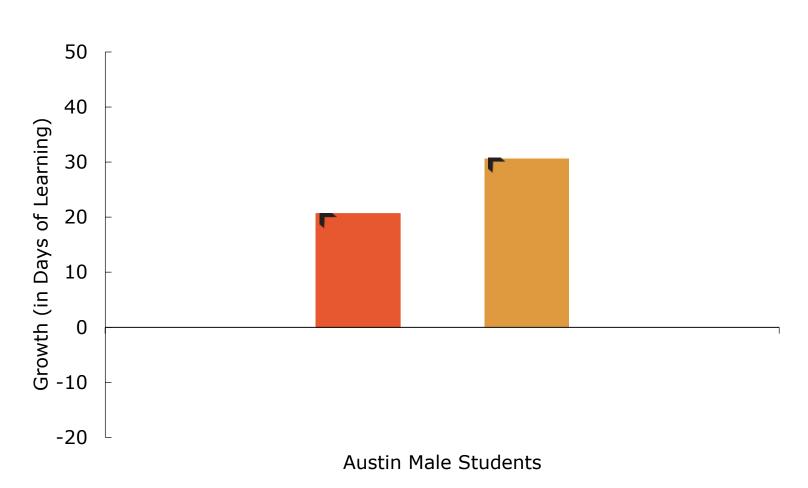


Research Findings > Student Subgroup Analysis

> Male Students

ALL VS. STATE

Learning Gains for All Austin Male Students Compared to the Average Learning Gains of Male Students Statewide, by Subject



significantly different at p< 0.05



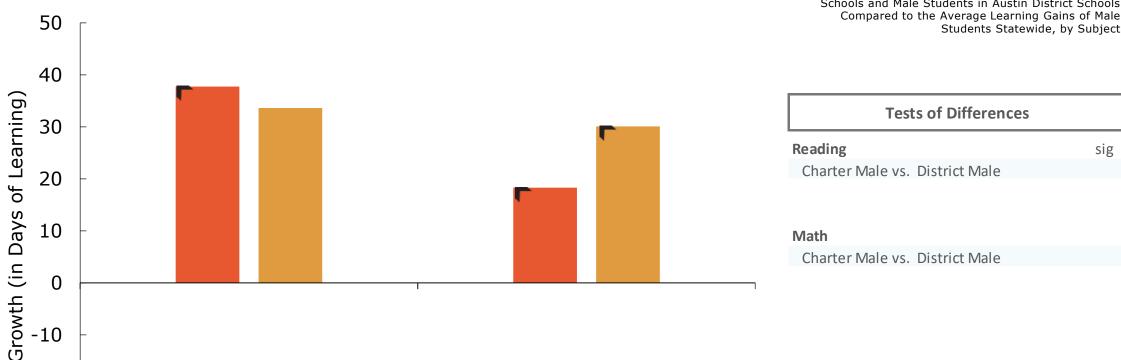




Research Findings > Student Subgroup Analysis > Male Students

VS. STATE BY SECTOR & COMPARISON WITHIN

Learning Gains for Male Students in Austin Charter Schools and Male Students in Austin District Schools Compared to the Average Learning Gains of Male





Austin Charter Austin District Male Students Male Students

significantly different at p< 0.05





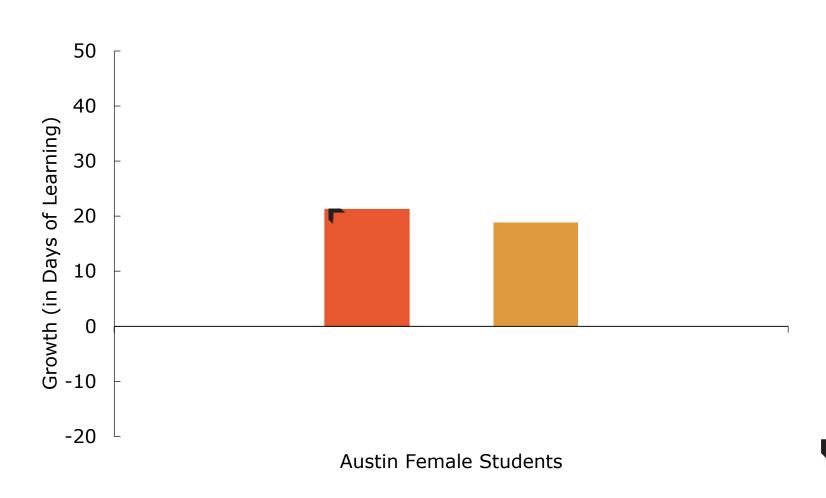
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Research Findings > Student Subgroup Analysis > Female Students

ALL VS. STATE

Learning Gains for All Austin Female Students Compared to the Average Learning Gains of Female Students Statewide, by Subject



significantly different at p< 0.05



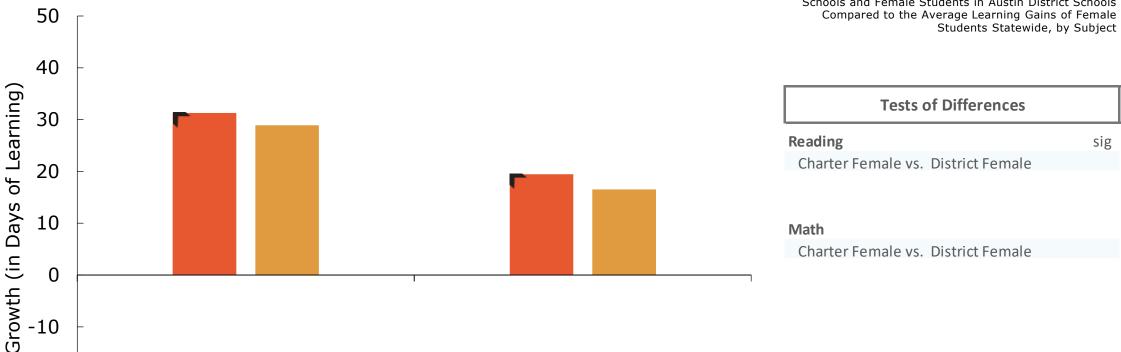




Research Findings > Student Subgroup Analysis > Female Students

VS. STATE BY SECTOR & COMPARISON WITHIN AUSTIN

Learning Gains for Female Students in Austin Charter Schools and Female Students in Austin District Schools





Austin Charter Austin District Female Students Female Students

significantly different at p< 0.05





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Summary of Findings

The summary of the findings from the analysis of Austin schools is presented <u>here</u>.







O APPENDIXES 03







Acknowledgments









Disclaimer: The conclusions of this research do not necessarily reflect the opinions or official position of the Texas Education Agency, the Texas Higher Education Coordinating Board, the Texas Workforce Commission or the State of Texas.



The KLE Foundation assisted CREDO with verifying the list of public schools in Austin.





Types of Charter Schools

There are two types of charter schools.



CHARTER MANAGEMENT ORGANIZATIONS (CMOS)

Organizations holding the charter and overseeing the operation of at least three charter schools.



INDEPENDENT CHARTER SCHOOLS

Organization holding the charter and overseeing the operation of a single charter school. It may run the school directly or contract with an organization which provides services to one or two charter schools.

OUR ANALYSES OF AUSTIN CHARTER SCHOOLS INCLUDE A BREAKOUT OF CMOS AND INDEPENDENT CHARTERS.

- With more schools and students than a single charter school, CMOs have some operational advantages in their ability to spread administrative fixed costs, thus providing the possibility of greater efficiency. In addition, CMOs may be able to support additional programs and more robust staffing.
- Whether CMOs lead to better student outcomes is a matter of interest across the country.





Methods

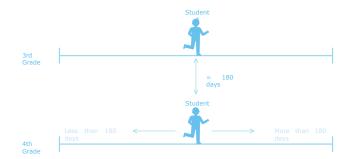
The annual academic growth of students in Austin from 2017-18 to 2018-19, overall and by sector, is benchmarked to the state average growth, accounting for student characteristics.

We also explore how one-year growth of Austin students for the period ending in Spring 2019 differs by school type, race, poverty status, English language learner status, special education status, and gender.

Days of Learning

CREDO USES ADVANCED
TECHNOLOGY AND
SOPHISTICATED STATISTICAL
TOOLS TO MEASURE STUDENTS,
SCHOOLS AND THE EDUCATION
LANDSCAPE.

While these tools create precise and reliable answers, they are presented in technical terms that are not user-friendly to a general audience. To translate the technical results into terms that are accessible to non-technical audiences, CREDO developed Days of Learning.





Think about the students in your state's public schools. For many of their years of schooling, they take achievement tests to measure what they know at the end of the school year. We can identify the average score for each test each year.



Imagine a student who scores exactly at the average in one year, say 4th grade, and then in the following year, scores exactly at the average again on the 5th-grade test. The amount of year-to-year learning for that student show us what the average learning is for all the students who took both tests.



We do that calculation for every grade the state tests: 4th to 5th, 5th to 6th, and so on.



CREDO uses those annual measures of average learning to represent a typical year of learning, and equates that to a typical 180-day school year. We say that the student in our example has gained 180 days of learning.



If a student makes more progress than the average student, we take the amount of extra achievement and translate it into 180-days of learning plus "X" extra days. We are creating a measure of student learning as if the student went to school for 180 days plus X days. The size of "X" depends on how much more the student learns than the average student — if it's a lot more, then "X" will be a large number, and if it's a small amount more, "X" will be a small number.



The same is true for students who do not learn as much as the average student. Instead of adding to the 180-days-of-learning average, we subtract from that base to reflect the smaller-than-average advances that those students realize. In these cases, the difference leads to numbers such a "165 days of learning" or "152 days of learning". Against the average standard of 180 days, these smaller days show that students learned as if they had only attended school for 180 days minus X days during the school year.





Overall Austin Results

	READING		MATH			
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning		
_	0.04**	21**	0.04*	24*		

Austin Overall 2018-19

Significant at p < 0.05*





Austin School Sectors Compared to State Average

	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning
Charter Schools 2018-19	0.06*	34*	0.05*	31*
Other District Schools 2018-19	0.03*	18*	0.04*	23*

Significant at p < 0.05*



Comparison of School Sectors within Austin

READ	DING	MATH		
Standard Deviation	Days of Learning	Standard Deviation	Days of Learning	
0.03*	15*	0.01	8	

Charter Schools vs. Other District Schools 2018-19

Significant at p < 0.05*





Charter Subsector Analysis

	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning
Austin CMOs vs. State Average	0.1**	60**	0.11**	65**
Austin Independent Charters vs. State Average	-0.06	-37	-0.10	-59
Austin CMOs vs. Austin Independent Charters	0.16**	96**	0.21**	124**

Significant at p < 0.05*





Student Subgroup Analysis> Black Students

	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning
Compared with Statewide Average of Black Students				
Austin Black Students Overall	-0.03	-16	-0.02	-9
Austin Charter School Black Students	0.00	0	0.01	7
Austin Other District School Black Students	-0.03*	-20*	-0.02	-13
Compared with Black Students in Other District Schools in Austin				
Austin Charter School Black Students	0.00	0	0.01	7

Significant at p < 0.05*

Student Subgroup Analysis> Hispanic Students

	REAL	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning	
Compared with Statewide Average of Hispanic Students					
Austin Hispanic Students Overall	0.00	1	0.01	5	
Austin Charter School Hispanic Students	0.06*	37*	0.05	30	
Austin Other District School Hispanic Students	-0.02	-11	-0.01	-3	
Compared with Hispanic Students in Other District Schools in Austin	s				
Austin Charter School Hispanic Students	0.06**	37**	0.05	30	

Significant at p < 0.05*

Student Subgroup Analysis> Students in Poverty

	REAL	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning	
Compared with Statewide Average of Students in Poverty					
Austin Students in Poverty Overall	0.00	-2	0.01	5	
Austin Charter School Students in Poverty	0.07**	43**	0.07	40	
Austin Other District School Students in Poverty	-0.03*	-17*	-0.01	-8	
Compared with Students in Poverty in Other District Schools in Austin					
Austin Charter School Students in Poverty	0.07**	43**	0.07	40	





Student Subgroup Analysis> ELL Students

	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning
Compared with Statewide Average of ELL Students				
Austin ELL Students Overall	0.01	4	0.04	20
Austin Charter School ELL Students	0.06*	35*	0.08	44
Austin Other District School ELL Students	-0.02	-9	0.02	10
Compared with ELL Students in Other District Schools in Austin				
Austin Charter School ELL Students	0.06*	35*	0.08	44

Significant at p < 0.05*

Significant at p < 0.01**

Student Subgroup Analysis> Special Ed Students

	REAL	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning	
Compared with Statewide Average of Special Ed Students					
Austin Special Ed Students Overall	0.01	5	0.01	4	
Austin Charter School Special Ed Students	0.09	50	0.00	-2	
Austin Other District School Special Ed Students	0.00	0	0.01	5	
Compared with Special Ed Students in Other District Schools in Austin					
Austin Charter School Special Ed Students	0.09	50	0.00	-2	

(>)

Significant at p < 0.05*

Student Subgroup Analysis> Male Students

	READ	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning	
Compared with Statewide Average of Male Students					
Austin Male Students Overall	0.04**	20**	0.05**	30**	
Austin Charter School Male Students	0.06**	37**	0.06	33	
Austin Other District School Male Students	0.03*	18*	0.05**	30**	
Compared with Male Students in Other District Schools in Austin					
Austin Charter School Male Students	0.06	37	0.06	33	



Significant at p < 0.05*

Student Subgroup Analysis> Female Students

	READING		MATH	
	Standard Deviation	Days of Learning	Standard Deviation	Days of Learning
Compared with Statewide Average of Female Students				
Austin Female Students Overall	0.04**	21**	0.03	18
Austin Charter School Female Students	0.05*	31*	0.05	28
Austin Other District School Female Students	0.03*	19*	0.03	16
Compared with Female Students in Other District Schools in Austin				
Austin Charter School Female Students	0.05	31	0.05	28

Significant at p < 0.05*

Significant at p < 0.01**

THANK YOU

