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Trends in Academic Performance in Vail Unified District (4413), Arizona

VERSION 2025.1

This report summarizes district-level educational outcomes using data from the Stanford Education Data Archive (SEDA) from 2009-2025. Figures may contain gaps where source data are unavailable.

For more information, please visit edopportunity.org

Report created by the Educational Opportunity Project at Stanford University in collaboration with the Education Scorecard at Harvard University, using data provided by the National Center for Education Statistics and the Education Data Center. See final page for full information on data sources.

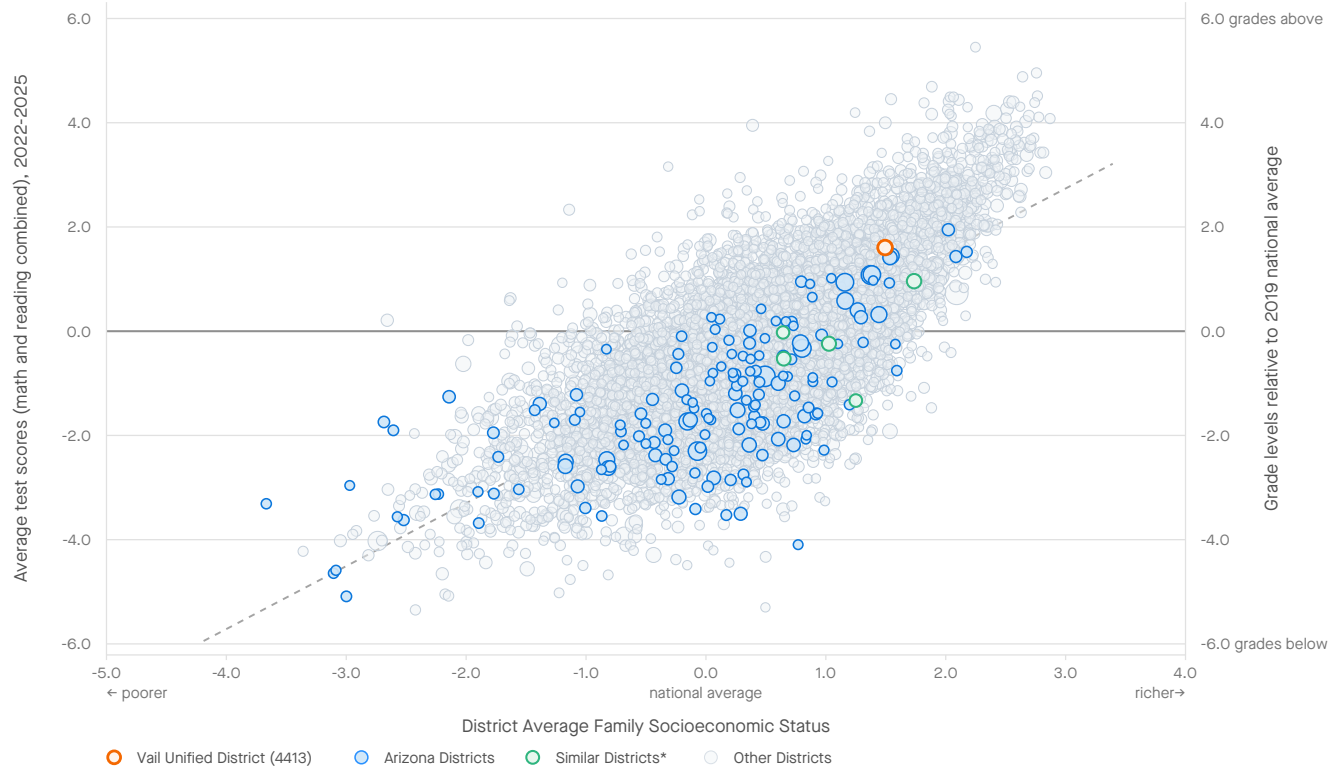


Vail Unified District (4413), Arizona



Average Grade 3-8 Test Scores, 2022-2025, by District Socioeconomic Status

Average test scores in grades 3-8 reflect the set of educational opportunities available to students in the district, including those provided by their families, preschools, neighborhoods, and elementary and middle schools.



Note: each bubble is a U.S. school district, with size proportional to district enrollment. Districts in Arizona are highlighted. District socioeconomic status is a composite measure of a district's average family income, parental education, poverty rate, SNAP eligibility rate, unemployment rate, and female-headed household rate. Test scores are measured in grade levels relative to the 2019 national average.

Average Test Scores and Trends, 2022-2025

ALL STUDENTS

	2022-2025 Average Scores	2022-2025 Trend in Test Scores
Vail Unified District (4413)	1.61	-0.10
Similar Districts Avg.*	-0.09	0.03
Arizona	-0.74	-0.01

Test scores are reported in grade level units, relative to the 2019 national average. For example, the first row above reads: "Students in Vail Unified District (4413) performed 1.60 grade levels above the 2019 national average. Test scores in Vail Unified District (4413) have been changing at a rate of -0.10 grade levels/year since 2022."

*Similar districts are the nearest matches within the same state based on socioeconomic status, demographics, and size. Similar districts for Vail Unified District (4413) are Queen Creek Unified District (4245), Liberty Elementary District (4266), Marana Unified District (4404), Sahuarita Unified District (4411), and Amphitheater Unified District (4406).

STUDENT SUBGROUPS

	2022-2025 Average Scores	2022-2025 Trend in Test Scores
White	2.20	-0.08
Black	0.22	-0.09
Hispanic	0.95	-0.09
Asian	3.72	N/A
Poor	0.33	-0.16
Non-Poor	2.14	0.01
Female	N/A	N/A
Male	N/A	N/A



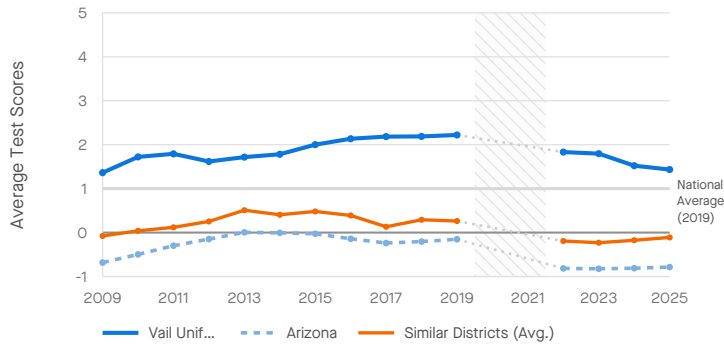
Vail Unified District (4413), Arizona

Trends in Average Grade 3-8 Test Scores, 2009-2025, by Subject and Student Subgroup

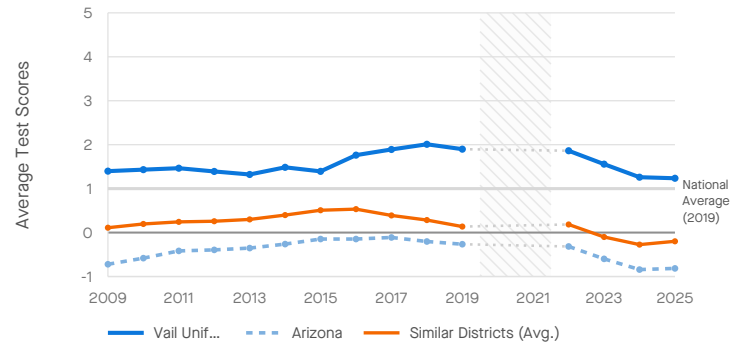


Trends in test scores may reflect changes in school quality, changes in demographics, and/or changes in out-of-school educational opportunities.

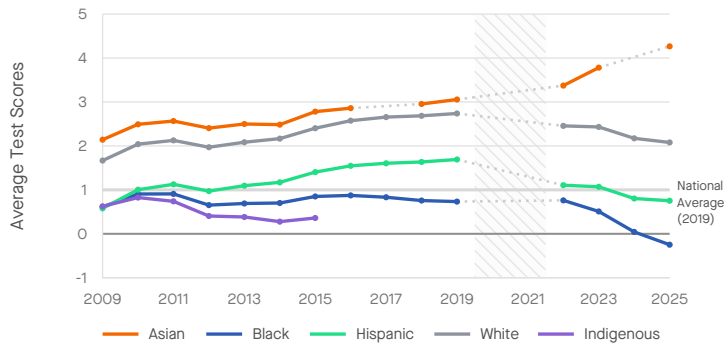
Trend in Math Scores (All Students)



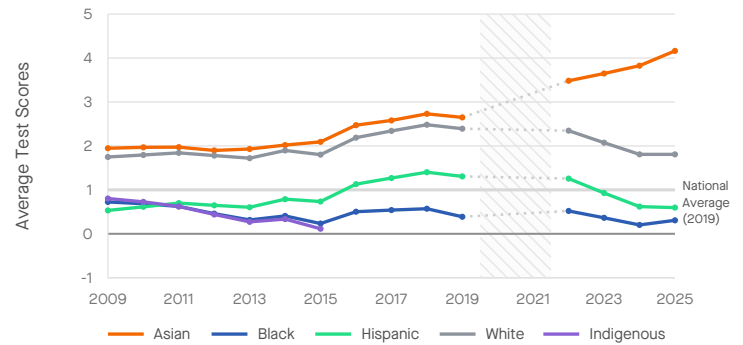
Trend in Reading Scores (All Students)



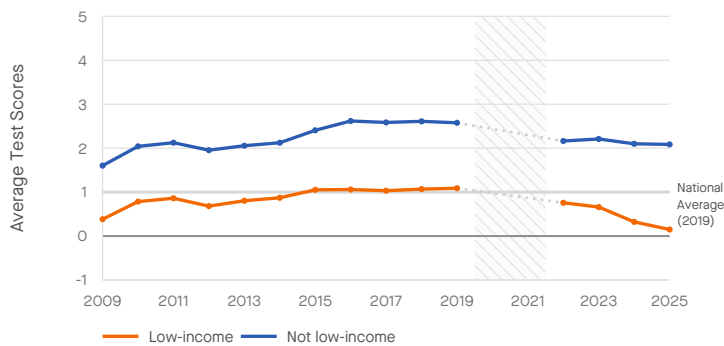
Trend in Math Scores, by Student Race/Ethnicity



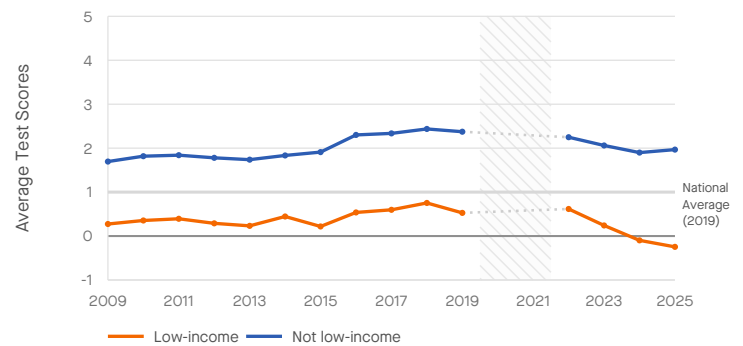
Trend in Reading Scores, by Student Race/Ethnicity



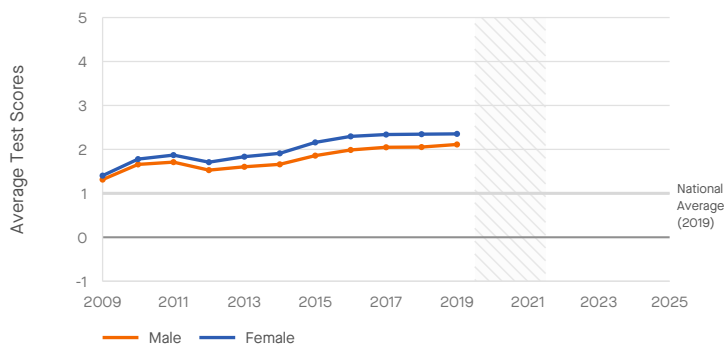
Trend in Math Scores, by Student Income Level



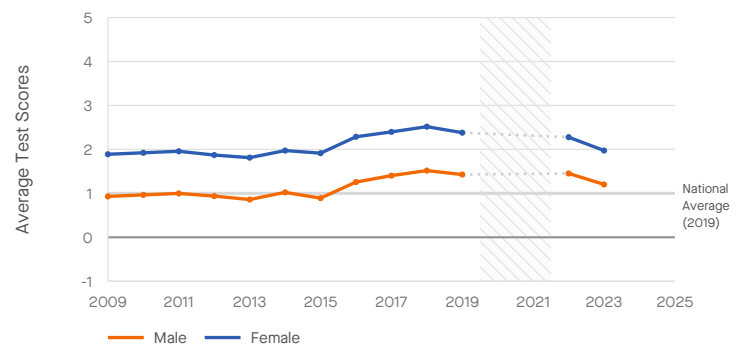
Trend in Reading Scores, by Student Income Level



Trend in Math Scores, by Student Gender



Trend in Reading Scores, by Student Gender

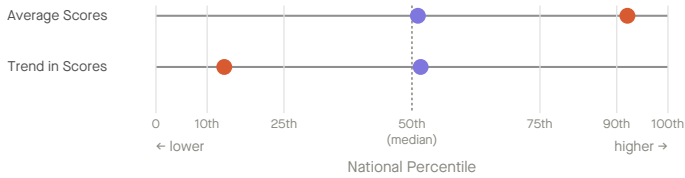


Vail Unified District (4413), Arizona

Academic Performance Rankings, 2022-2025, Relative to Other Districts in the U.S.



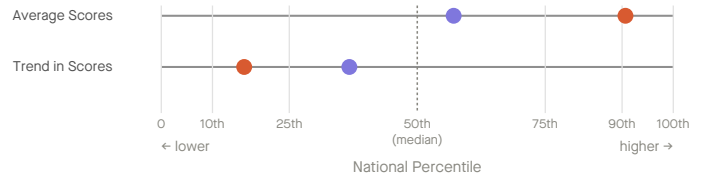
Math Ranks



	Average	Trend
Vail Unified District (4413)	809 / 10,205 (92nd pct)	4,739 / 5,468 (13th pct)
Similar Districts Avg.	4,985 / 10,205 (51st pct)	2,642 / 5,468 (52nd pct)

Vail Unified District (4413) ranked higher than 92% of districts nationwide in average math performance during the 2022-25 school years (809th of 10,205 districts with available data).

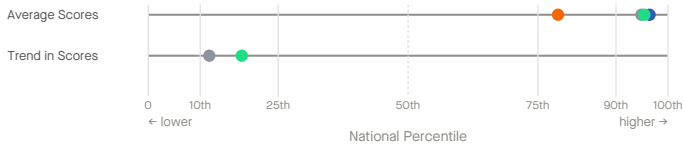
Reading Ranks



	Average	Trend
Vail Unified District (4413)	942 / 10,076 (91st pct)	4,755 / 5,673 (16th pct)
Similar Districts Avg.	4,323 / 10,076 (57th pct)	3,590 / 5,673 (37th pct)

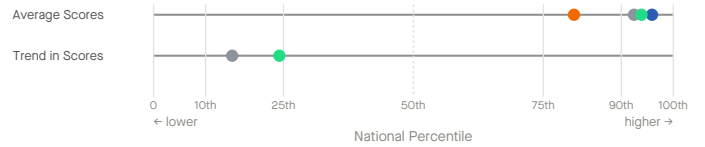
Vail Unified District (4413) ranked higher than 91% of districts nationwide in average reading performance during the 2022-25 school years (942nd of 10,076 districts with available data).

Math Ranks by Race/Ethnicity



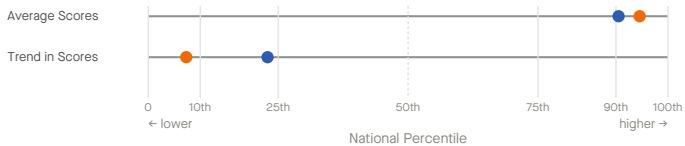
	Average	Trend
White	446 / 8,707 (95th pct)	3,162 / 3,582 (12th pct)
Black	90 / 2,508 (96th pct)	N/A
Hispanic	209 / 4,583 (95th pct)	1,091 / 1,330 (18th pct)
Asian	341 / 1,608 (79th pct)	N/A

Reading Ranks by Race/Ethnicity



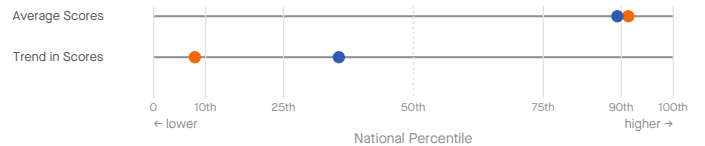
	Average	Trend
White	666 / 8,785 (92nd pct)	3,345 / 3,941 (15th pct)
Black	109 / 2,644 (96th pct)	N/A
Hispanic	286 / 4,662 (94th pct)	1,062 / 1,400 (24th pct)
Asian	315 / 1,642 (81st pct)	N/A

Math Ranks by Income



	Average	Trend
Low-income	484 / 8,875 (95th pct)	2,647 / 2,855 (7th pct)
Not low-income	808 / 8,489 (90th pct)	2,410 / 3,127 (23rd pct)

Reading Ranks by Income

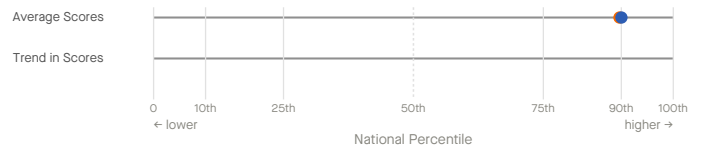


	Average	Trend
Low-income	778 / 8,987 (91st pct)	2,933 / 3,186 (8th pct)
Not low-income	926 / 8,596 (89th pct)	2,131 / 3,311 (36th pct)

Math Ranks by Gender

No subgroup data available

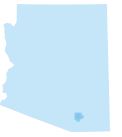
Reading Ranks by Gender



	Average	Trend
Female	899 / 8,670 (90th pct)	N/A
Male	864 / 8,652 (90th pct)	N/A

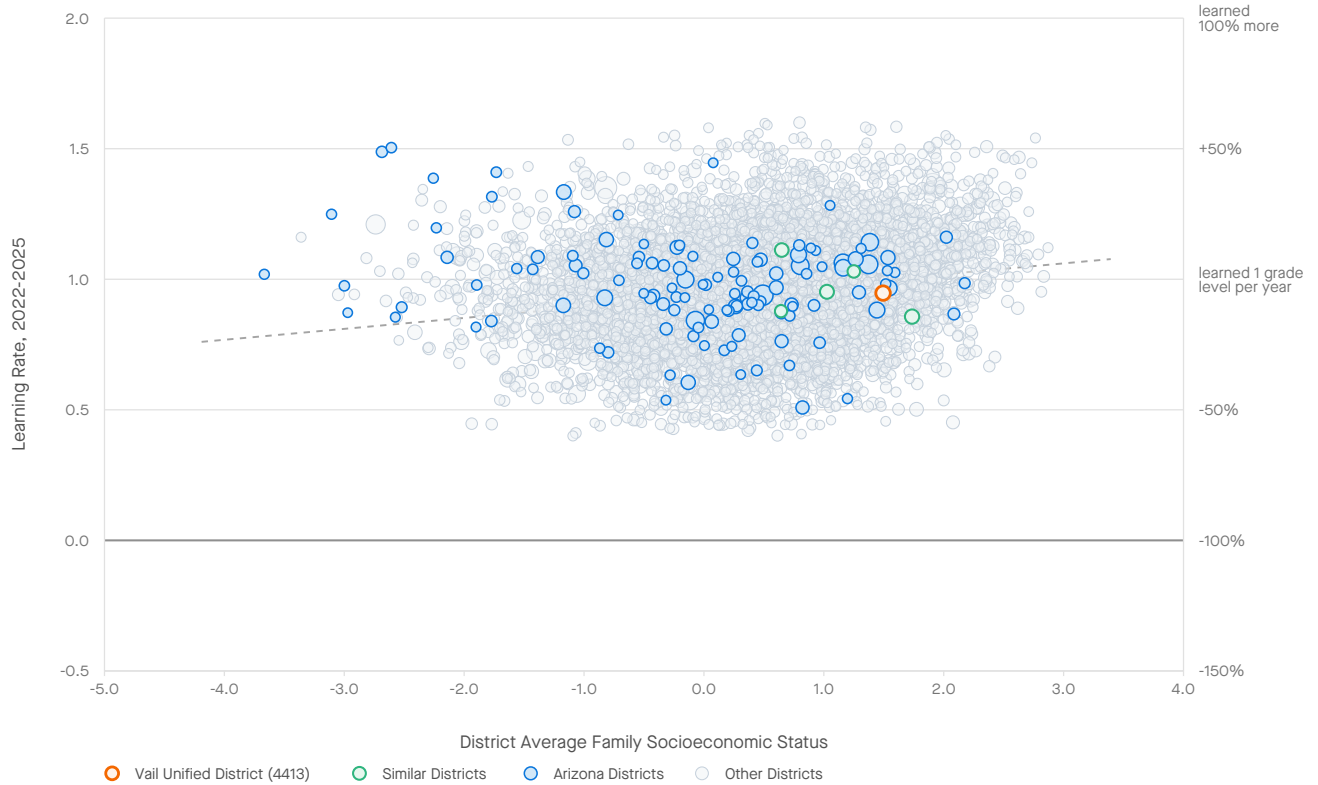


Vail Unified District (4413), Arizona



Average Grades 3-8 Learning Rates, 2022-2025, by District Socioeconomic Status

Learning rates measure how much students' scores improve as they progress from grade to grade. They are a better indicator of school quality than average test scores, which are influenced by a range of experiences outside of school.



Note: each bubble is a U.S. school district, with size proportional to district enrollment. Districts in Arizona are highlighted. District socioeconomic status is a composite measure of a district's average family income, parental education, poverty rate, SNAP eligibility rate, unemployment rate, and female-headed household rate.

Learning Rates and Trends, 2022-2025

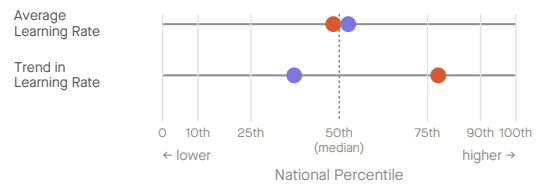
ALL STUDENTS

	2022-2025 Learning Rate	2022-2025 Trend in Learning Rates
Vail Unified District (4413)	0.95	0.03
Similar Districts Avg.*	0.96	-0.03
Arizona	0.98	-0.02

Learning rates are measured in grade levels of skills gained per year and are averaged over math and reading. The national average learning rate is 1.0. For example, the first row above reads: "Students in Vail Unified District (4413) learned an average of 0.95 grade levels/year during 2022-2025. Learning rates in Vail Unified District (4413) have been changing at a rate of +0.03 grade levels/year since 2022."

*Similar districts are the nearest matches within the same state based on socioeconomic status, demographics, and size. Similar districts for Vail Unified District (4413) are Queen Creek Unified District (4245), Liberty Elementary District (4266), Marana Unified District (4404), Sahuarita Unified District (4411), and Amphitheater Unified District (4406).

Learning Rate Rankings



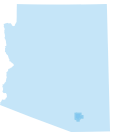
	Average	Trend
Vail Unified District (4413)	4,211 / 8,147 (48th pct)	1,334 / 6,065 (78th pct)
Similar Districts Avg.	3,866 / 8,147 (53rd pct)	3,806 / 6,065 (37th pct)

Vail Unified District (4413) ranked higher than 48% of districts nationwide in average learning rates during the 2022-25 school years (4,211th of 8,147 districts with available data).



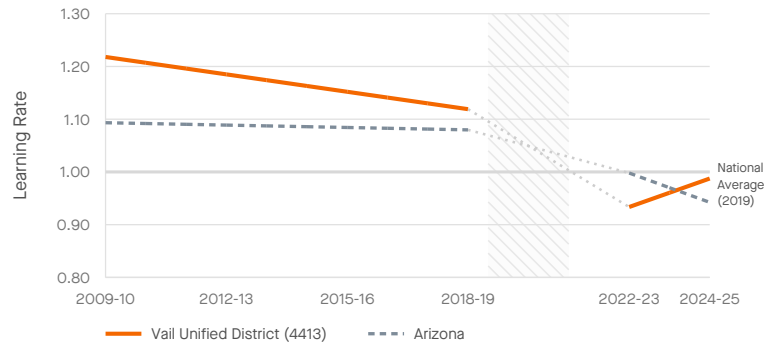
Vail Unified District (4413), Arizona

Trends in Average Grade 3-8 Learning Rates, 2009-2025, by Student Subgroup

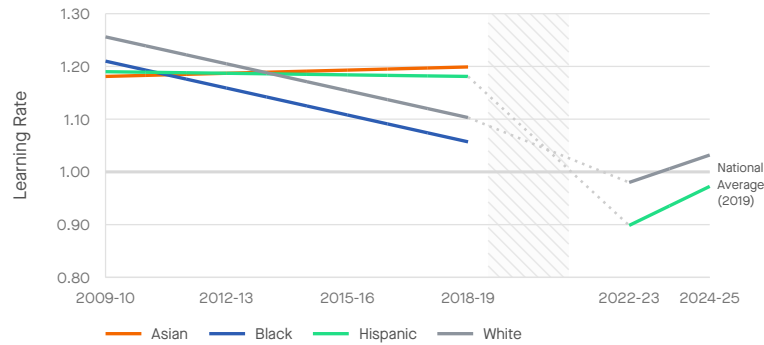


Trends in learning rates measure how annual learning rates change over time. They are a better indicator of changes in school quality than trends in average test scores, which are influenced by a range of experiences outside of school.

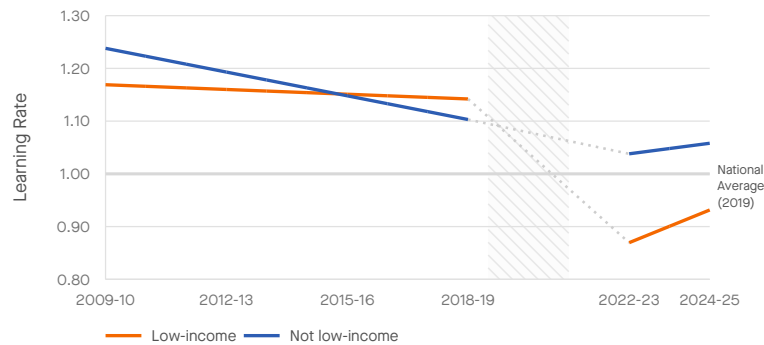
Trend in Learning Rates (All Students)



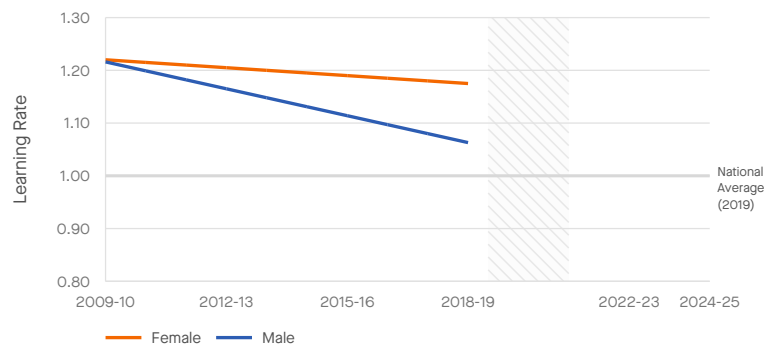
Trend in Learning Rates, by Student Race/Ethnicity



Trend in Learning Rates, by Student Income Level



Trend in Learning Rates, by Student Gender



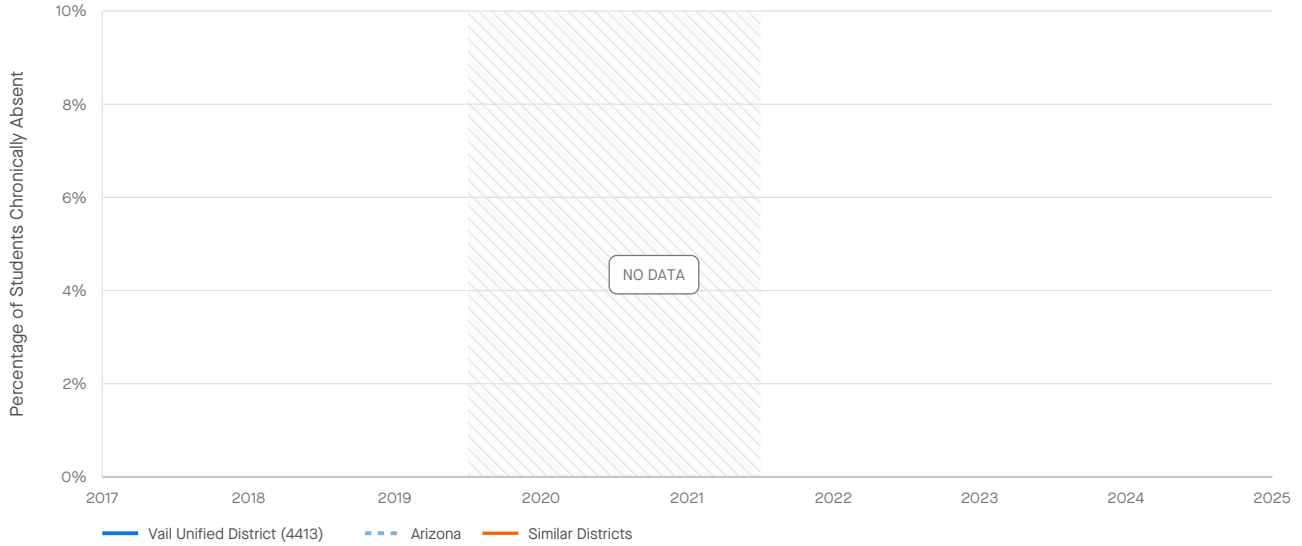
Vail Unified District (4413), Arizona



Trends in Chronic Absenteeism

Chronic absenteeism rates indicate the proportion of students who were absent 10% or more of the school year.

Trends in Chronic Absenteeism



Trends in Chronic Absenteeism

ALL STUDENTS

	2017-2019 Avg. Chronic Absenteeism	2022-2025 Avg. Chronic Absenteeism	Change
Vail Unified District (4413)	N/A	N/A	N/A
Similar Districts Avg.*	N/A	N/A	N/A
Arizona	N/A	N/A	N/A

*Similar districts are the nearest matches within the same state based on socioeconomic status, demographics, and size. Similar districts for Vail Unified District (4413) are Queen Creek Unified District (4245), Liberty Elementary District (4266), Marana Unified District (4404), Sahuarita Unified District (4411), and Amphitheater Unified District (4406).

Absenteeism data courtesy of [Nat Malkus, American Enterprise Institute](#).



Vail Unified District (4413), Arizona



Changes in Average Math Scores in Arizona Districts, 2019-2025 and 2022-2025, by District Free/Reduced-Price Lunch Eligibility Rate

Change in Math Scores, 2019-2025



Figure produced by the Center for Education Policy Research at Harvard University

○ Largest Districts ◆ State Average

Change in Math Scores, 2022-2025

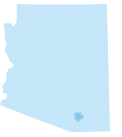


Figure produced by the Center for Education Policy Research at Harvard University

○ Largest Districts ◆ State Average



Vail Unified District (4413), Arizona



Changes in Average Reading Scores in Arizona Districts, 2019-2025 and 2022-2025, by District Free/Reduced-Price Lunch Eligibility Rate

Change in Reading Scores, 2019-2025

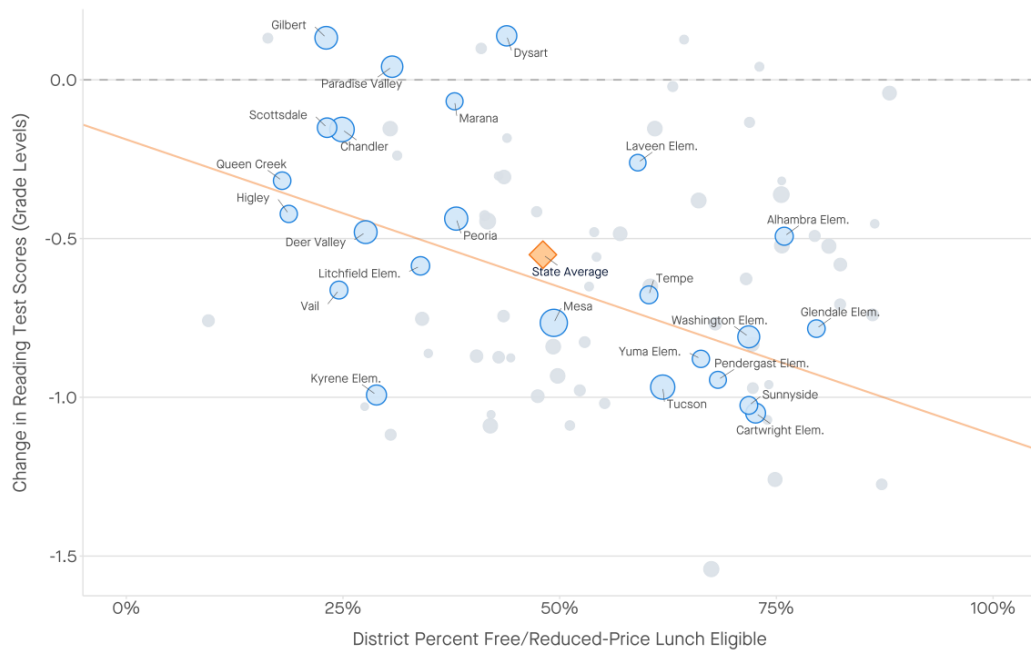


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○ Largest Districts ◆ State Average

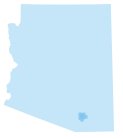
Change in Reading Scores, 2022-2025



Figure produced by the Center for Education Policy Research at Harvard University

○ Largest Districts ◆ State Average





Notes & Acknowledgments

This report summarizes academic performance in Vail Unified District (4413) from 2008-09 through 2024-25, using data from the Stanford Education Data Archive (SEDA). SEDA is a national database of U.S. academic performance produced by the Educational Opportunity Project at Stanford University. The SEDA data are based on the standardized accountability tests in math and reading language arts (RLA) administered by each state to all public-school students in grades 3-8.

The raw test score data used to construct the SEDA 2022-2025 estimates here were graciously provided to us by Emily Oster and Clare Halloran at the [Education Data Center](#). The raw test score data used to construct the SEDA 2009-2019 estimates are available through the ED*Facts* data system at the U.S. Department of Education, and were provided to us by the National Center for Education Statistics (NCES). Detailed NAEP data used to harmonize test scores across states was provided by NCES and the National Assessment Governing Board. Chronic absenteeism data were provided by [Nat Malkus at the American Enterprise Institute](#). Funding to construct and analyze SEDA was provided by the Gates Foundation. Funding for the Education Scorecard was provided by the Carnegie Corporation of New York, Bloomberg Philanthropies, Joyce Foundation, Kenneth C. Griffin and Citadel Catalyst. The findings and opinions expressed in our research and reported here are those of the authors alone; they do not represent the views of any of the above organizations.

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