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# Trends in Academic Performance in Snowflake Unified District (4391), Arizona

VERSION 2025.1

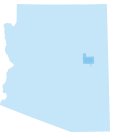
This report summarizes district-level educational outcomes using data from the Stanford Education Data Archive (SEDA) from 2009-2025. Figures may contain gaps where source data are unavailable.

For more information, please visit [edopportunity.org](https://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.

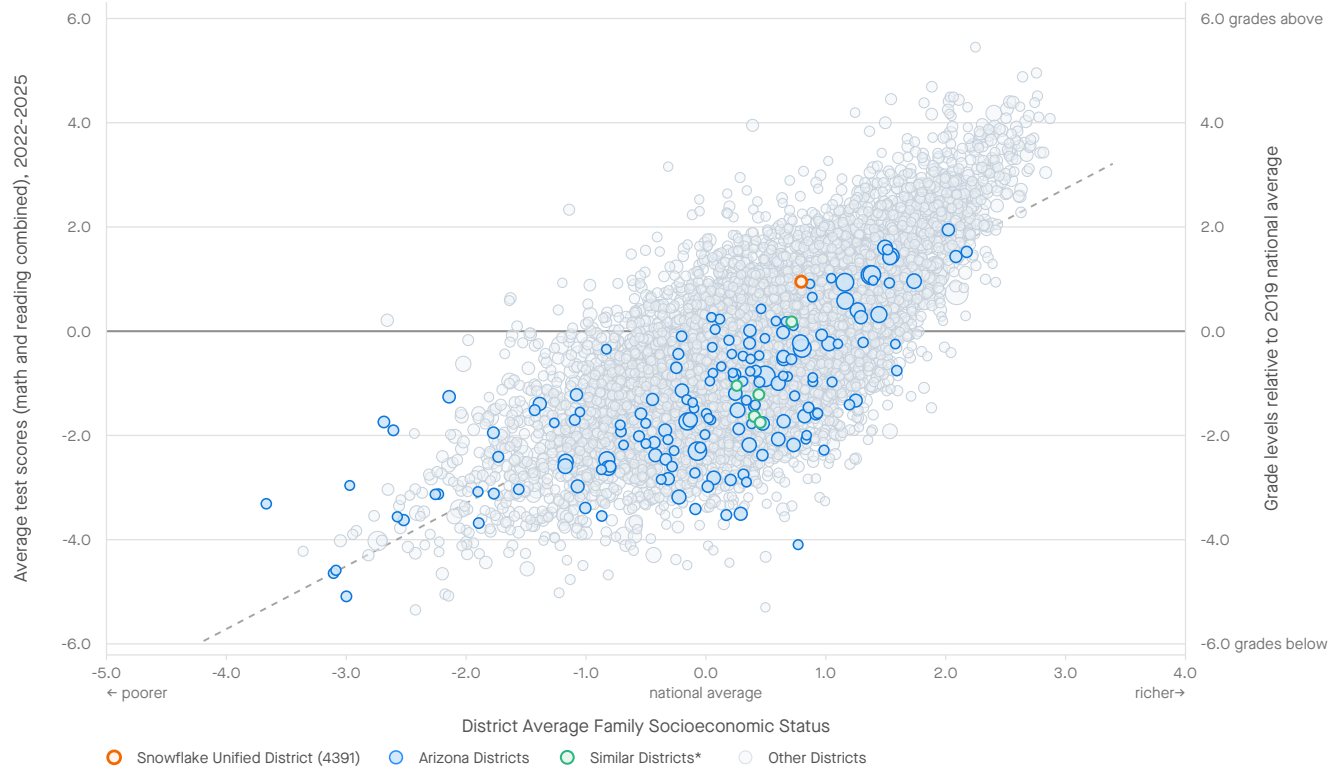


# Snowflake Unified District (4391), Arizona



## 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<br>Average Scores | 2022-2025 Trend<br>in Test Scores |
|--|-----------------------------|-----------------------------------|
| <b>Snowflake Unified District (4391)</b> | 0.95                        | 0.04                              |
| <b>Similar Districts Avg.*</b>           | -1.16                       | 0.01                              |
| <b>Arizona</b>                           | -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 Snowflake Unified District (4391) performed 0.95 grade levels above the 2019 national average. Test scores in Snowflake Unified District (4391) have been changing at a rate of +0.04 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 Snowflake Unified District (4391) are Payson Unified District (4209), Chino Valley Unified District (4474), Thatcher Unified District (4219), Cottonwood-Oak Creek Elementary District (4487), and Round Valley Unified District (4155).

### STUDENT SUBGROUPS

|                 | 2022-2025<br>Average Scores | 2022-2025 Trend<br>in Test Scores |
|-----------------|-----------------------------|-----------------------------------|
| <b>White</b>    | 1.31                        | 0.05                              |
| <b>Black</b>    | N/A                         | N/A                               |
| <b>Hispanic</b> | -0.14                       | N/A                               |
| <b>Asian</b>    | N/A                         | N/A                               |
| <b>Poor</b>     | 0.29                        | -0.01                             |
| <b>Non-Poor</b> | 1.75                        | 0.13                              |
| <b>Female</b>   | 1.06                        | 0.01                              |
| <b>Male</b>     | 0.84                        | 0.07                              |



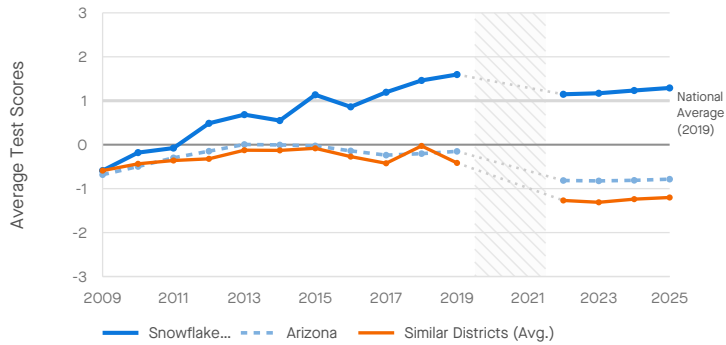
# Snowflake Unified District (4391), Arizona

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

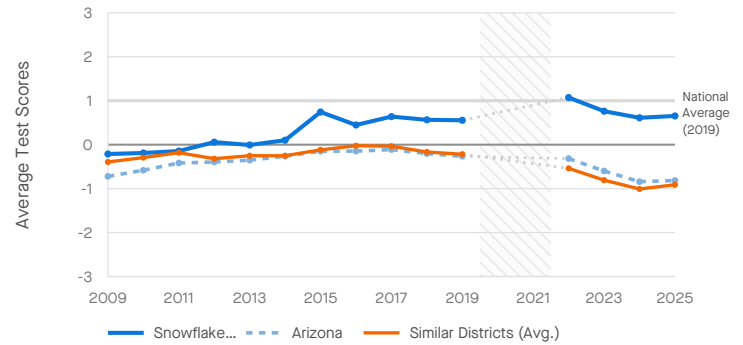


Trends in test scores may reflect changes in school quality, changes in demographics, and/or changes in out-of-school educational opportunities.

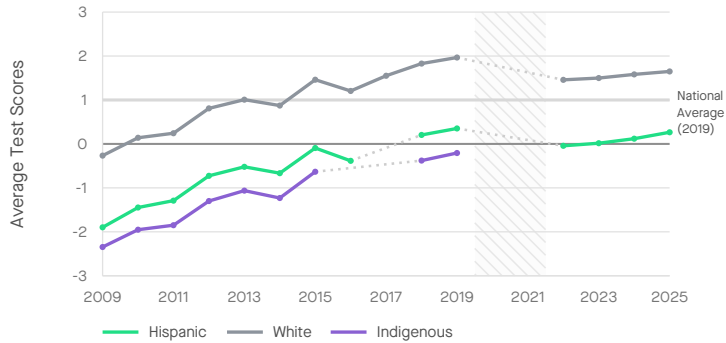
### Trend in Math Scores (All Students)



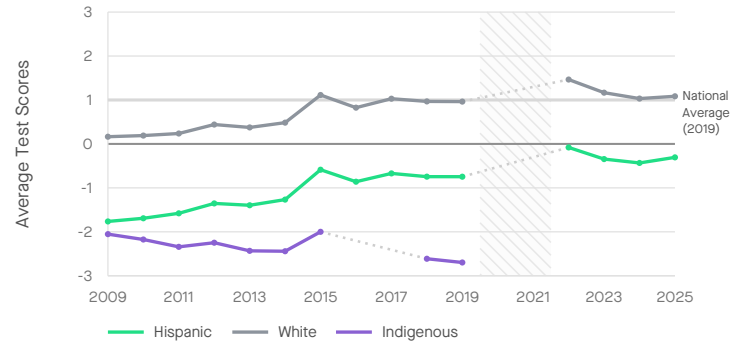
### Trend in Reading Scores (All Students)



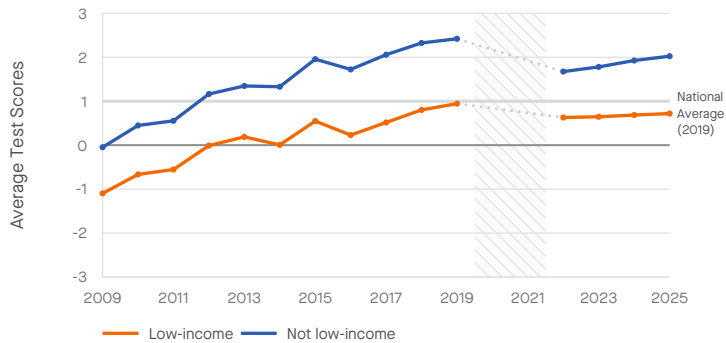
### Trend in Math Scores, by Student Race/Ethnicity



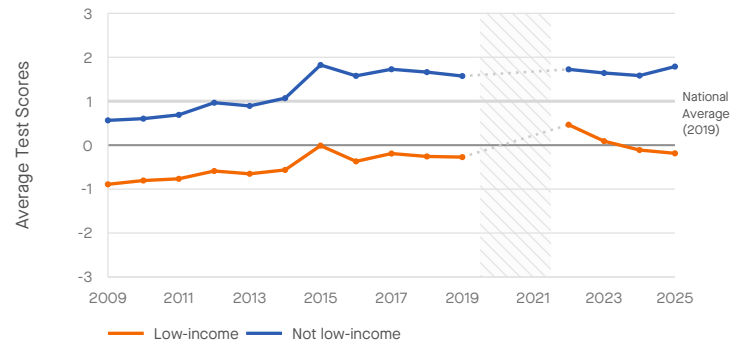
### Trend in Reading Scores, by Student Race/Ethnicity



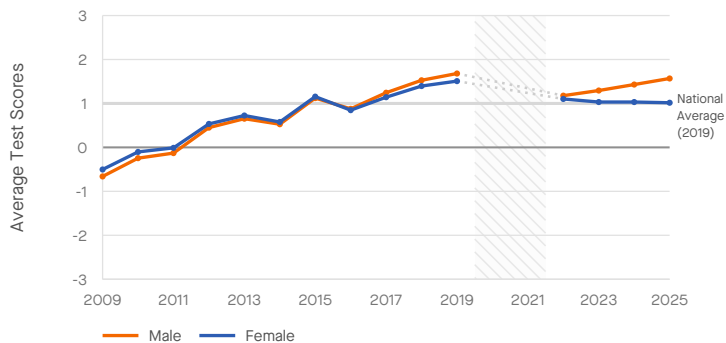
### Trend in Math Scores, by Student Income Level



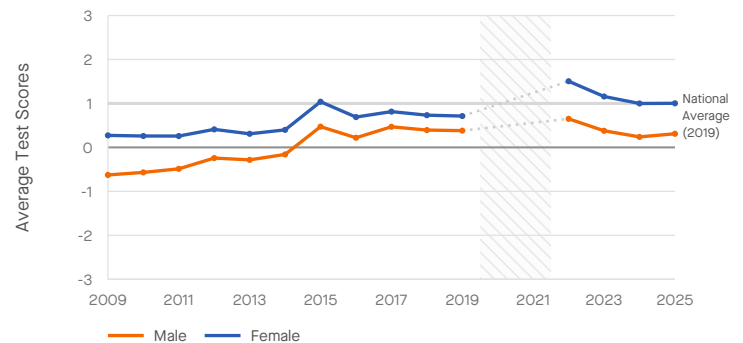
### Trend in Reading Scores, by Student Income Level



### Trend in Math Scores, by Student Gender



### Trend in Reading Scores, by Student Gender

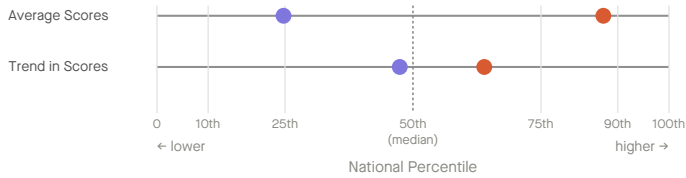


# Snowflake Unified District (4391), Arizona

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



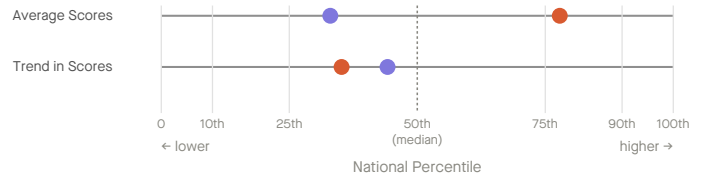
## Math Ranks



|                                     | Average                   | Trend                    |
|-------------------------------------|---------------------------|--------------------------|
| ● Snowflake Unified District (4391) | 1,309 / 10,205 (87th pct) | 1,973 / 5,468 (64th pct) |
| ● Similar Districts Avg.            | 7,682 / 10,205 (25th pct) | 2,875 / 5,468 (47th pct) |

Snowflake Unified District (4391) ranked higher than 87% of districts nationwide in average math performance during the 2022-25 school years (1,309th of 10,205 districts with available data).

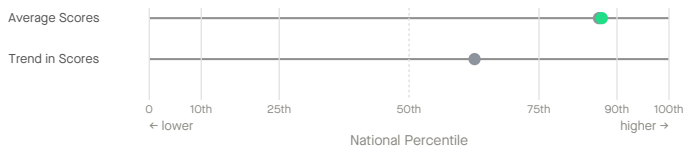
## Reading Ranks



|                                     | Average                   | Trend                    |
|-------------------------------------|---------------------------|--------------------------|
| ● Snowflake Unified District (4391) | 2,235 / 10,076 (78th pct) | 3,676 / 5,673 (35th pct) |
| ● Similar Districts Avg.            | 6,750 / 10,076 (33rd pct) | 3,166 / 5,673 (44th pct) |

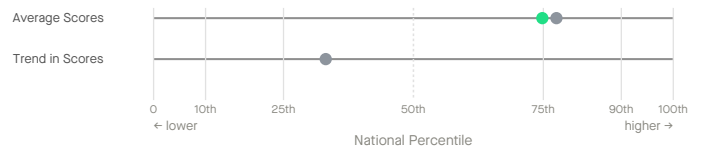
Snowflake Unified District (4391) ranked higher than 78% of districts nationwide in average reading performance during the 2022-25 school years (2,235th of 10,076 districts with available data).

## Math Ranks by Race/Ethnicity



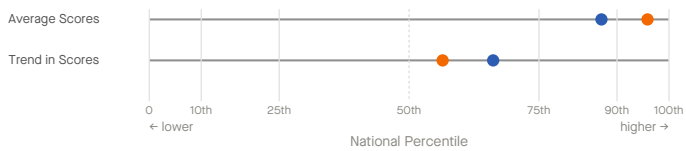
|            | Average                  | Trend                    |
|------------|--------------------------|--------------------------|
| ● White    | 1,173 / 8,707 (87th pct) | 1,341 / 3,582 (63rd pct) |
| ● Hispanic | 593 / 4,583 (87th pct)   | N/A                      |

## Reading Ranks by Race/Ethnicity



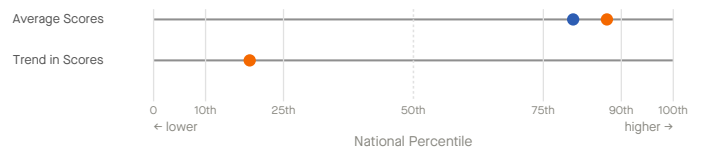
|            | Average                  | Trend                    |
|------------|--------------------------|--------------------------|
| ● White    | 1,976 / 8,785 (78th pct) | 2,636 / 3,941 (33rd pct) |
| ● Hispanic | 1,176 / 4,662 (75th pct) | N/A                      |

## Math Ranks by Income



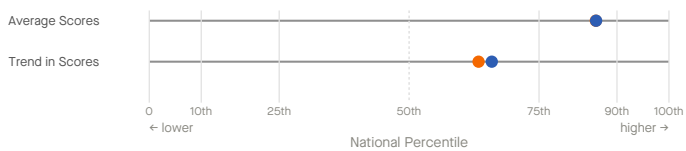
|                  | Average                  | Trend                    |
|------------------|--------------------------|--------------------------|
| ● Low-income     | 367 / 8,875 (96th pct)   | 1,244 / 2,855 (56th pct) |
| ● Not low-income | 1,104 / 8,489 (87th pct) | 1,059 / 3,127 (66th pct) |

## Reading Ranks by Income



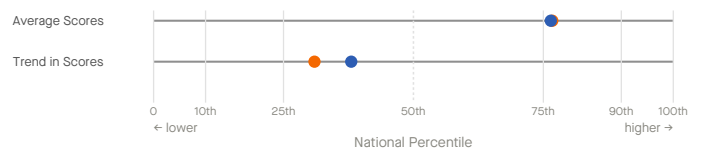
|                  | Average                  | Trend                    |
|------------------|--------------------------|--------------------------|
| ● Low-income     | 1,149 / 8,987 (87th pct) | 2,597 / 3,186 (18th pct) |
| ● Not low-income | 1,657 / 8,596 (81st pct) | N/A                      |

## Math Ranks by Gender



|          | Average                  | Trend                    |
|----------|--------------------------|--------------------------|
| ● Female | 1,198 / 8,509 (86th pct) | 1,180 / 3,219 (63rd pct) |
| ● Male   | 1,192 / 8,497 (86th pct) | 1,014 / 2,971 (66th pct) |

## Reading Ranks by Gender



|          | Average                  | Trend                    |
|----------|--------------------------|--------------------------|
| ● Female | 2,020 / 8,670 (77th pct) | 2,405 / 3,483 (31st pct) |
| ● Male   | 2,040 / 8,652 (76th pct) | 2,119 / 3,418 (38th pct) |

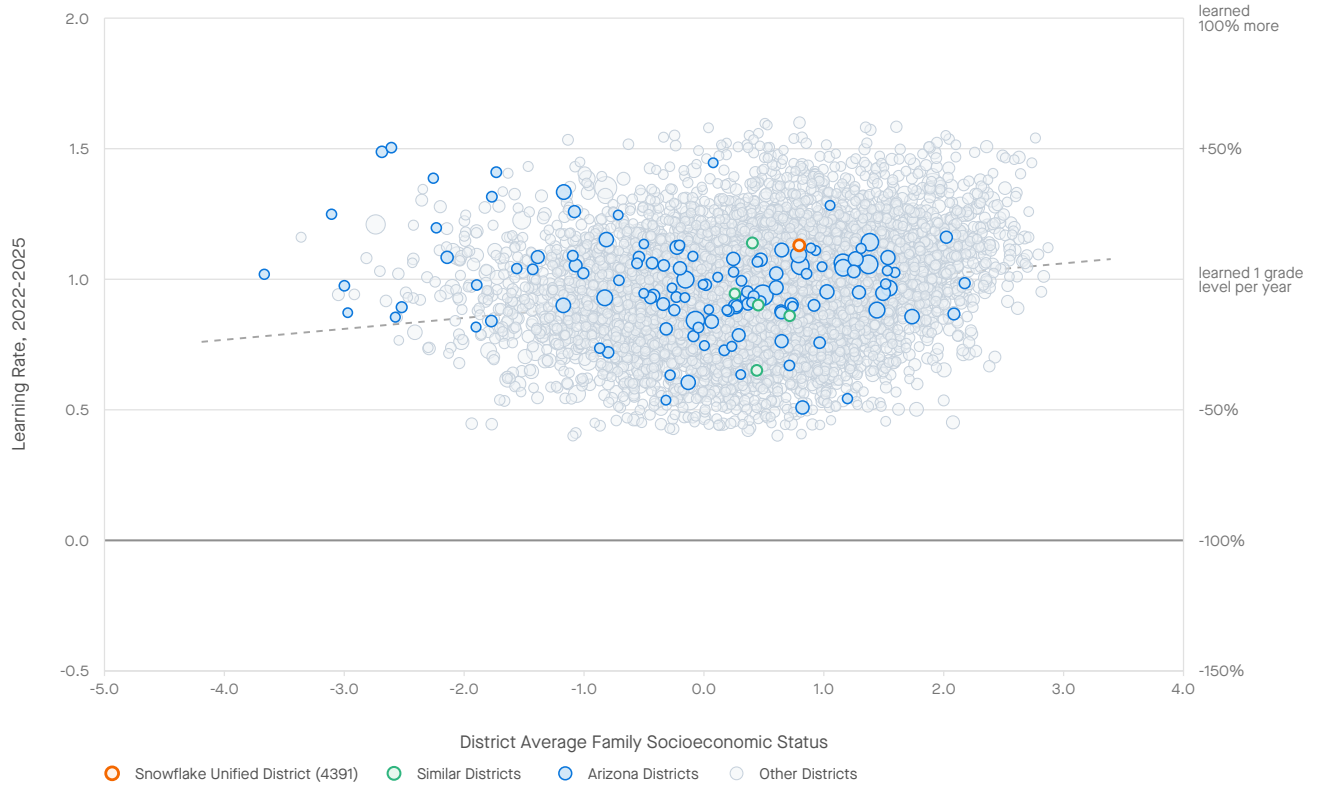


# Snowflake Unified District (4391), Arizona



## 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.



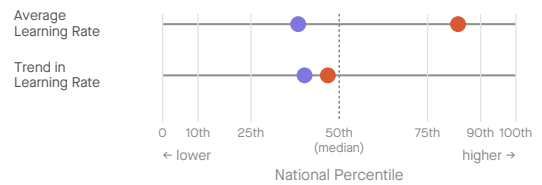
Note: each bubble is a U.S. school district, with size proportional to district enrollment. Districts in Arizona are highlighted. District socioeconomic status is a composite measure of a district's average family income, parental education, poverty rate, SNAP eligibility rate, unemployment rate, and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

### Learning Rates and Trends, 2022-2025

### Learning Rate Rankings

#### ALL STUDENTS

|  | 2022-2025 Learning Rate | 2022-2025 Trend in Learning Rates |
|--|-------------------------|-----------------------------------|
| <b>Snowflake Unified District (4391)</b> | 1.13                    | -0.02                             |
| <b>Similar Districts Avg.*</b>           | 0.91                    | -0.03                             |
| <b>Arizona</b>                           | 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 Snowflake Unified District (4391) learned an average of 1.13 grade levels/year during 2022-2025. Learning rates in Snowflake Unified District (4391) have been changing at a rate of -0.02 grade levels/year since 2022."

|                                     | Average                  | Trend                    |
|-------------------------------------|--------------------------|--------------------------|
| ● Snowflake Unified District (4391) | 1,334 / 8,147 (84th pct) | 3,228 / 6,065 (47th pct) |
| ● Similar Districts Avg.            | 5,021 / 8,147 (38th pct) | 3,628 / 6,065 (40th pct) |

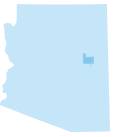
\*Similar districts are the nearest matches within the same state based on socioeconomic status, demographics, and size. Similar districts for Snowflake Unified District (4391) are Payson Unified District (4209), Chino Valley Unified District (4474), Thatcher Unified District (4219), Cottonwood-Oak Creek Elementary District (4487), and Round Valley Unified District (4155).

Snowflake Unified District (4391) ranked higher than 84% of districts nationwide in average learning rates during the 2022-25 school years (1,334th of 8,147 districts with available data).



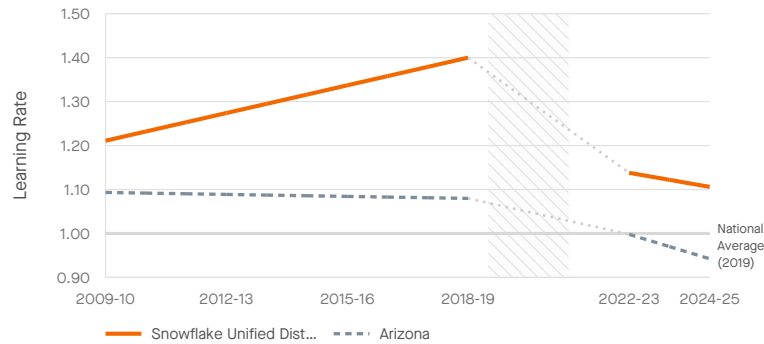
# Snowflake Unified District (4391), Arizona

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

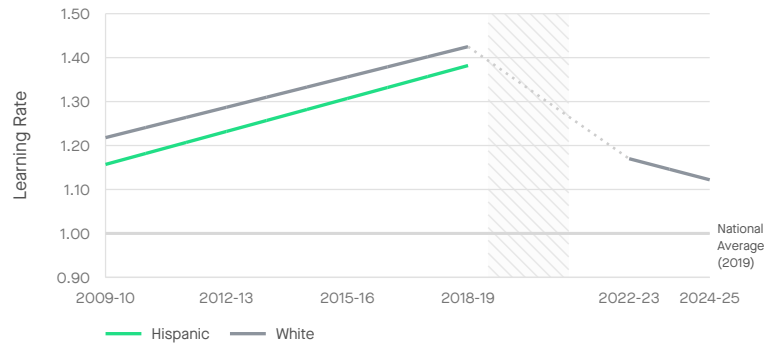


Trends in learning rates measure how annual learning rates change over time. They are a better indicator of changes in school quality than trends in average test scores, which are influenced by a range of experiences outside of school.

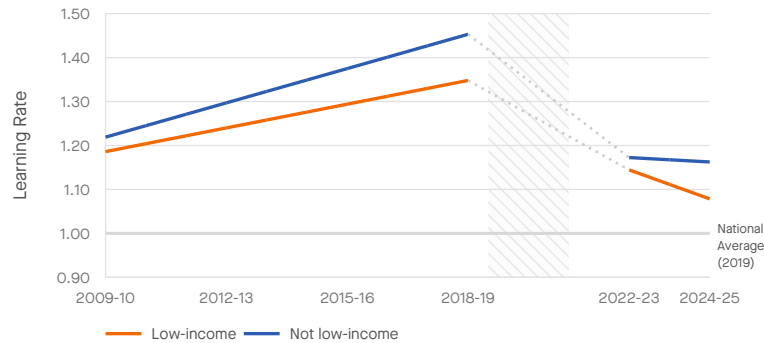
**Trend in Learning Rates (All Students)**



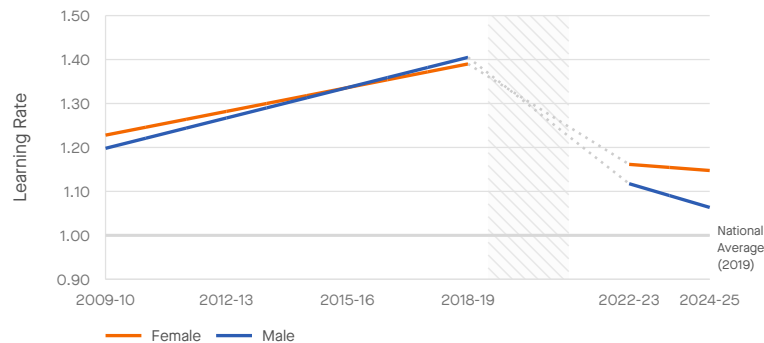
**Trend in Learning Rates, by Student Race/Ethnicity**



**Trend in Learning Rates, by Student Income Level**



**Trend in Learning Rates, by Student Gender**



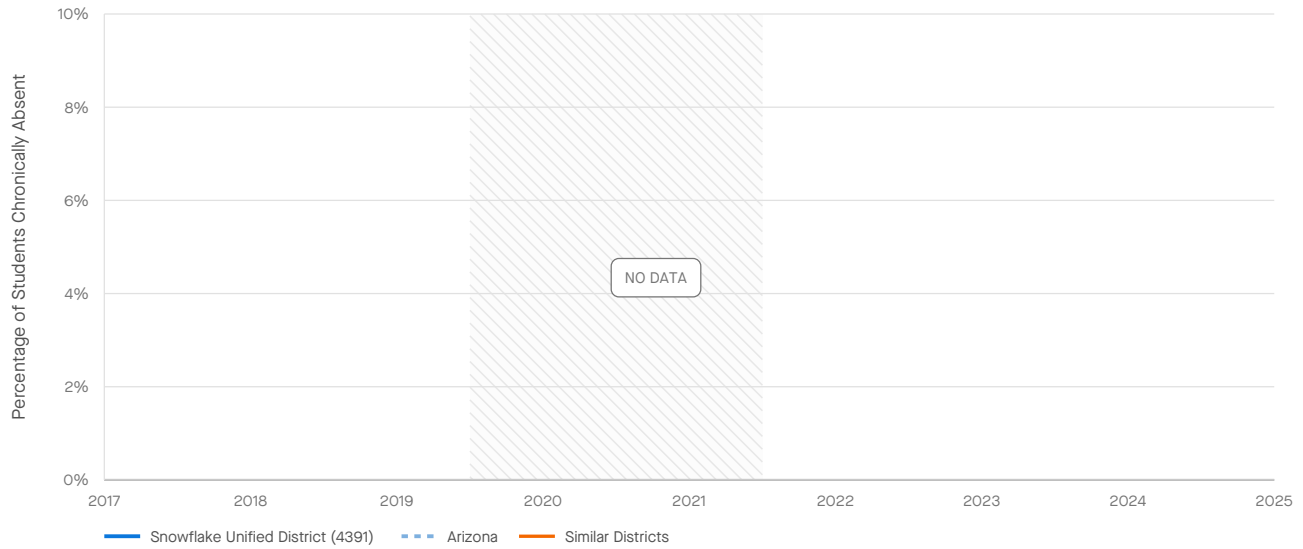
# Snowflake Unified District (4391), Arizona



## 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

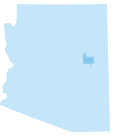
|  | 2017-2019 Avg.<br>Chronic Absenteeism | 2022-2025 Avg.<br>Chronic Absenteeism | Change |
|--|---------------------------------------|---------------------------------------|--------|
| <b>Snowflake Unified District (4391)</b> | N/A                                   | N/A                                   | N/A    |
| <b>Similar Districts Avg.*</b>           | N/A                                   | N/A                                   | N/A    |
| <b>Arizona</b>                           | 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 Snowflake Unified District (4391) are Payson Unified District (4209), Chino Valley Unified District (4474), Thatcher Unified District (4219), Cottonwood-Oak Creek Elementary District (4487), and Round Valley Unified District (4155).

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



# Snowflake Unified District (4391), 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



# Snowflake Unified District (4391), 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



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

○ 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 Snowflake Unified District (4391) 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.

### Citation:

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