

Grades 6-12 Assessment Data Snapshot

Star Math, Winter 2020-2021

This slide deck provides a District-level overview of $6^{th} - 12^{th}$ grade student performance on the winter Star **Math** Assessments



Renaissance Star is a suite of computer-adaptive universal screening, progress monitoring, and formative assessment products from Renaissance.



At the District, Star is administered four times in grades 6-8 and three times in grades 9-12.



The Star reading assessment assesses students' skills in numbers and operations, algebra, geometry and measurement, and data analysis, statistics, and probability.

The District tracks student progress toward Board Goals by using *Leading Indicators*

The **Leading Indicator** toward Goal 3 for the 2020-2021 school year is that by Spring 2021, 54.7% of students in grades 3-8 will test at target on their within-year math assessment.

The **Leading Indicator** toward Goal 4 for the 2020-2021 school year is that by Spring 2021, 47.4% of students in grades 9-11 will test at target on their within-year math and literacy assessments.

Board Goal #3

The percentage of students in grades 3-8 who are proficient on the state math assessment will grow from 21.6% in August 2019 to 52.0% by August 2026.

Board Goal #4

The percentage of students who are proficient on all three state high school assessments (Algebra, Literature, and Biology) by the end of their 11th grade year will grow from 26.1% in August 2019 to 52.0% by August 2026.



For more information, please visit the District's <u>Office of Evaluation</u>, Research, and Accountability's Goals and Guardrails page.

We measure **student performance** using the following metrics:

Metric	Description	Analytic Purpose
Average National Percentile	A student's National Percentile; a norm-referenced performance measure that compares a student's scaled score to her grade-level peers nationwide.	The Percentile Rank is useful for understanding a student's reading ability compared to other students in the same grade nationally.
Tier Level	Based on a student's Percentile Rank, Tiers are used to identify the level of intervention students need in order to reach proficiency. There are four tier levels: • Intensive Intervention (Below the 10 th percentile) • Strategic Intervention (Between and including the 10 th percentile and the 24 th percentile) • On Watch (between and including the 25 th percentile and the 39 th percentile) • At/Above Benchmark (the 40 th percentile or above)	Tier Levels are useful for understanding District-wide performance trends, as well as for identifying students who need additional supports in the classroom.

We measure **student growth** using the following metric:

Metric	Description	Analytic Purpose
Student Growth Percentile (SGP)	A norm-referenced metric that compares a student's growth to her "academic peers" (students in the same grade with a similar score history) nationwide. Measured on a 1-99 scale; lower numbers indicate lower relative growth and higher numbers indicate higher relative growth. Students are placed into three growth categories, based on their SGP: • High Growth (SGP between 66 th -99 th percentiles) • Typical Growth (SGP between 35 th -65 th percentiles) • Low Growth (SGP between 1 st -34 th percentiles)	The SGP is used to understand how much growth a student is making compared to his or her peers.



The following sections present student performance for all 6th -12th grade students who took the winter Star Math assessment

- Student performance and growth on the key metrics outlined on the previous slide is presented as follows:
 - Overall and by grade
 - By racial/ethnic subgroup
 - By other student subgroups (economically disadvantaged status, special education, English Learner)
- Tier levels are presented first, followed by Average National Percentile, then Student Growth Percentiles

Student Participation in Assessments

How many students participated in the winter 2020-21 assessment?

Winter 20-21 Star participation rates were higher in grades 6-8 than 9-12.

	Number of students eligible to participate in assessment	Number of students who were assessed	Participation rate (percentage of students who were assessed)
Grades 6-8 Combined	27,615	23,303	84.4%
6 th Grade	9,107	7,779	85.4%
7 th Grade	9,224	7,764	84.2%
8 th Grade	9,284	7,760	83.6%
Grades 9-12 Combined	35,524	23,958	67.4%
9 th Grade	9,879	7,451	75.4%
10 th Grade	9,556	6,735	70.4%
11 th Grade	8,234	5,663	68.8%
12 th Grade	7,855	4,109	52.3%

Asian and White students had higher participation rates than other groups of students.

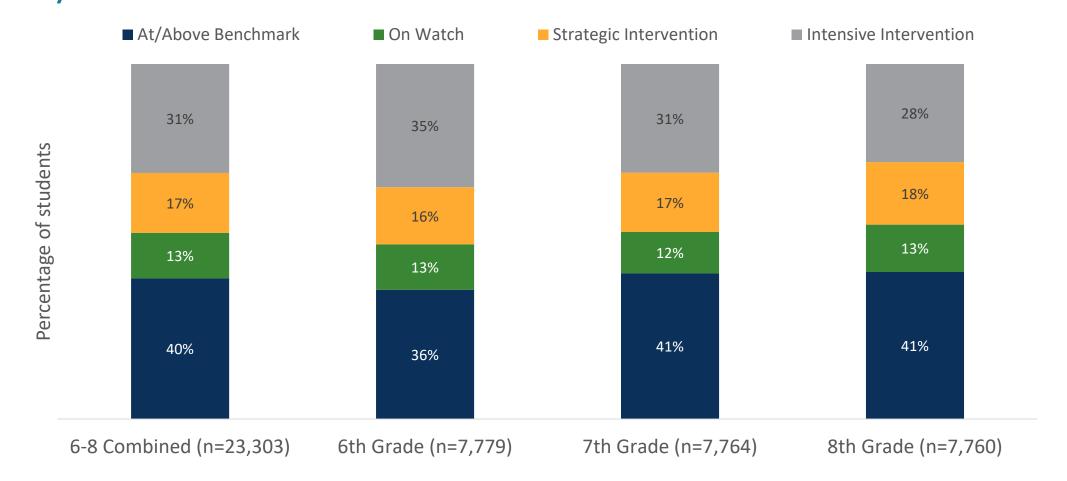
	Number of students eligible to participate in assessment	Number of students who were assessed	Participation rate (percentage of students who were assessed)
Asian	6,430	5,591	87.0%
Black/African American	31,200	22,704	72.8%
Hispanic/Latinx	13,511	9,416	71.1%
Multi-racial/Other	3,144	2,306	73.5%
White	8,631	7,058	81.8%
Economically Disadvantaged	42,738	31,708	74.4%
Has IEP (Individualized Education Plan)*	11,660	7,049	60.5%
EL (English Learner)	7,913	5,517	75.2%

^{*} All students are required to participate except for students who are exempted based on their Individualized Education Program (IEP). For the Special Education student group, participation rate includes all students, included those who are exempted, in the denominator.

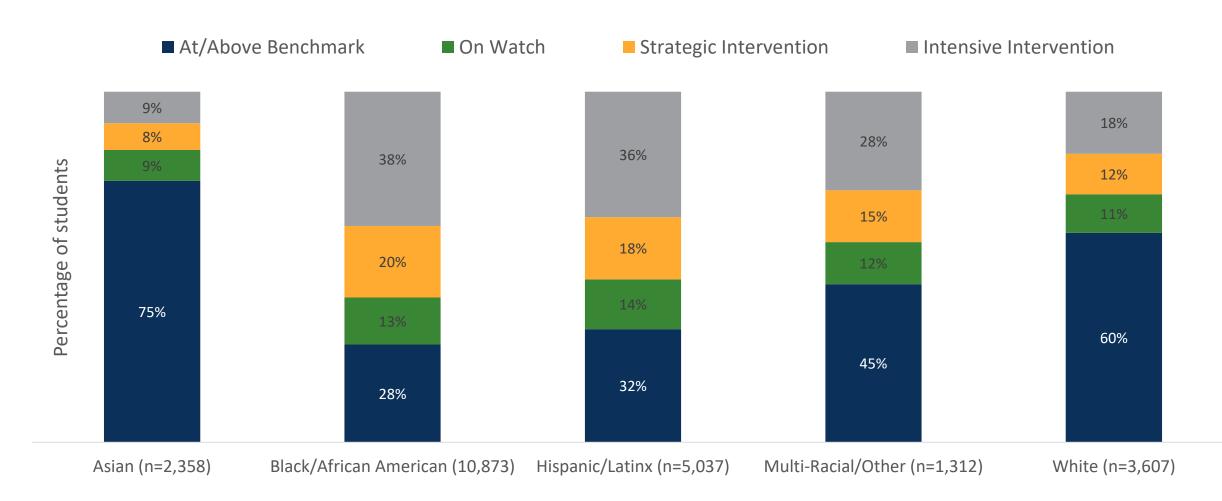
Tier-Level Analysis

Who is performing at target and who requires additional support?

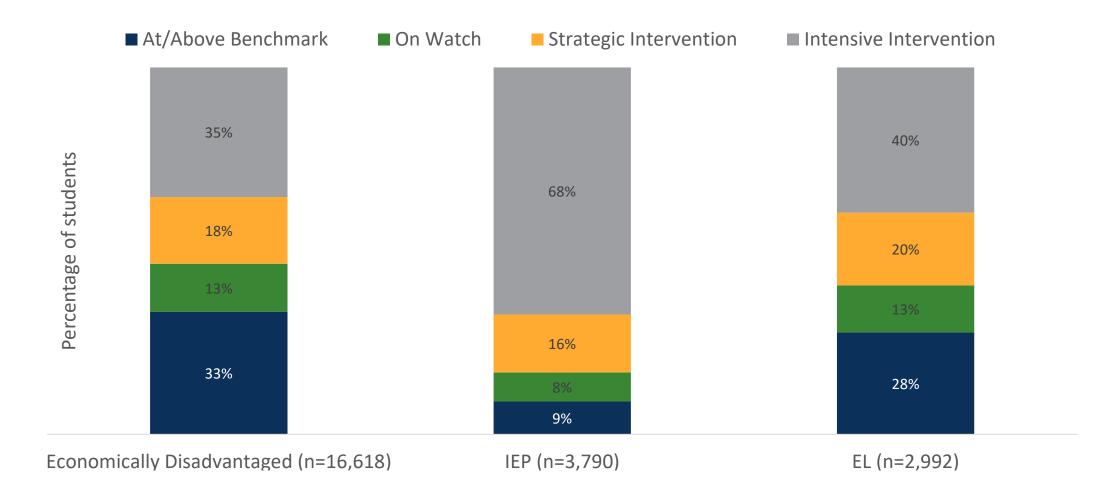
Overall, about half of all 6th – 8th grade students who took the winter Star Math assessment scored either On Watch or At/Above Benchmark.



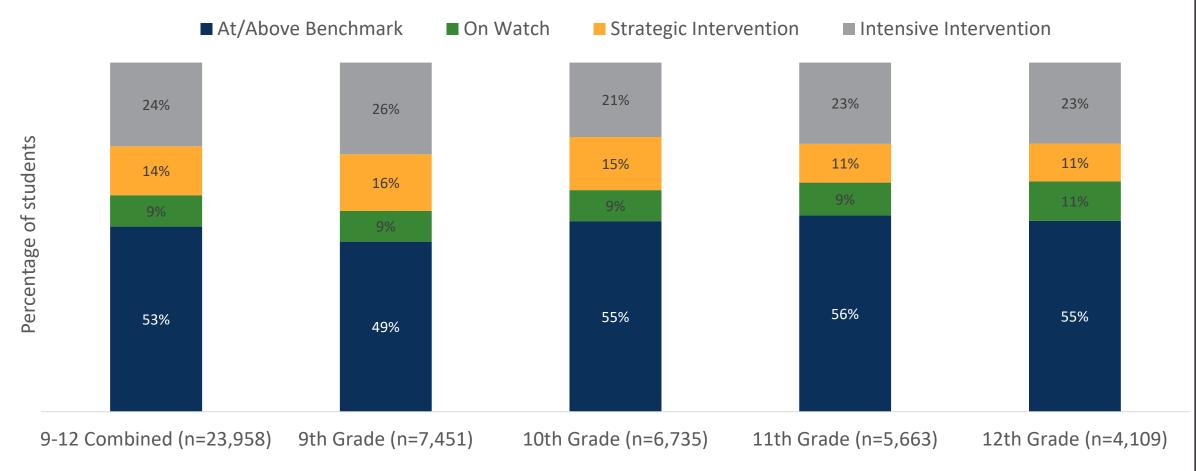
Over one-third of African American/Black and Hispanic/Latinx 6th – 8th graders required Intensive Intervention.



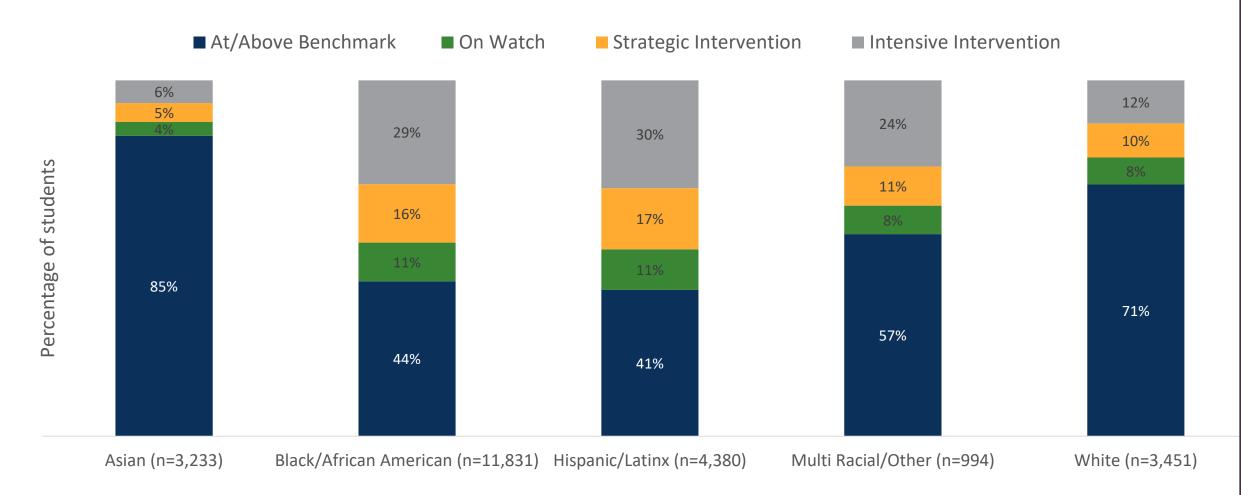
About three-quarters of 6th – 8th graders who had an Individualized Education Plan (IEP) or were classified as English Learners (ELs) required Intensive Intervention.



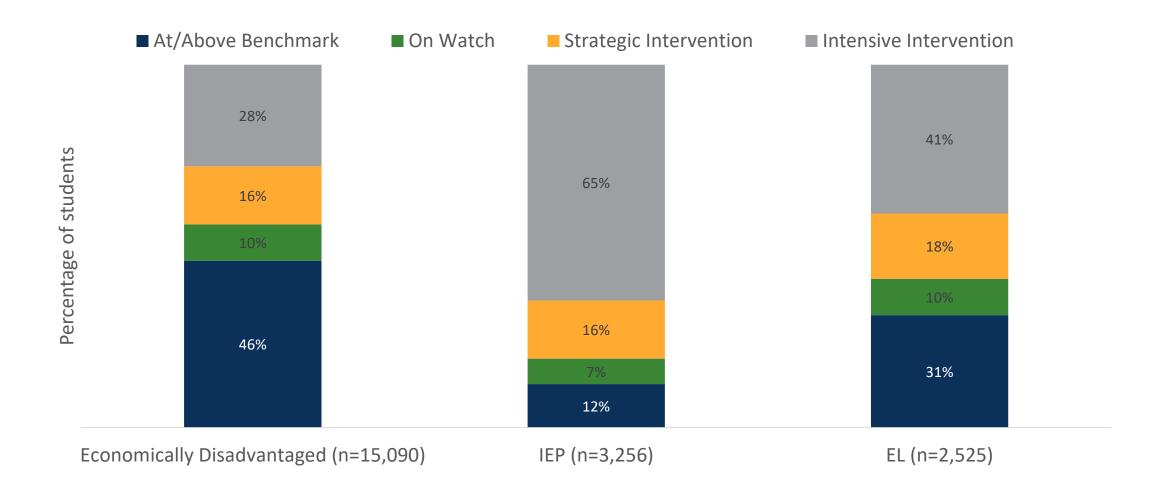
Overall, about one-half of all 9th – 12th grade students who took the winter Star Math assessment scored At/Above Benchmark.



About one-third of Hispanic/Latinx 9th – 12th graders required Intensive Intervention.



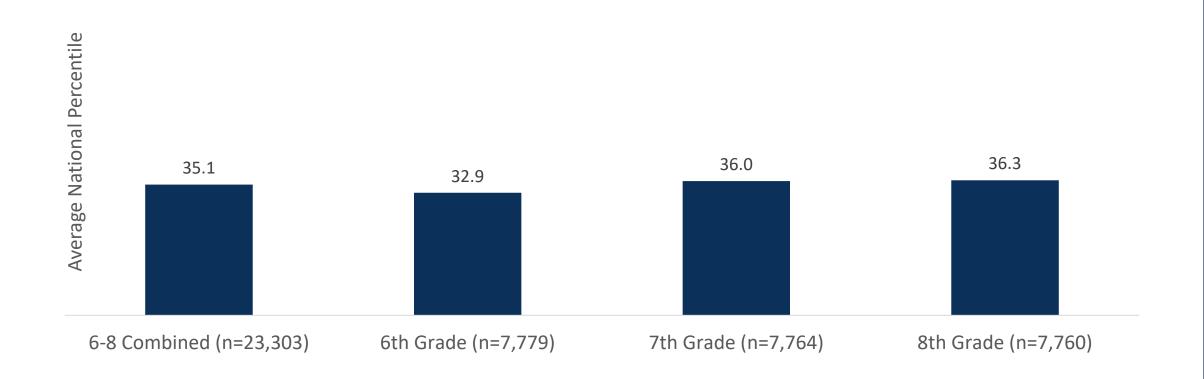
About two-thirds of 9th – 12th graders who had an Individualized Education Plan (IEP) required Intensive Intervention.



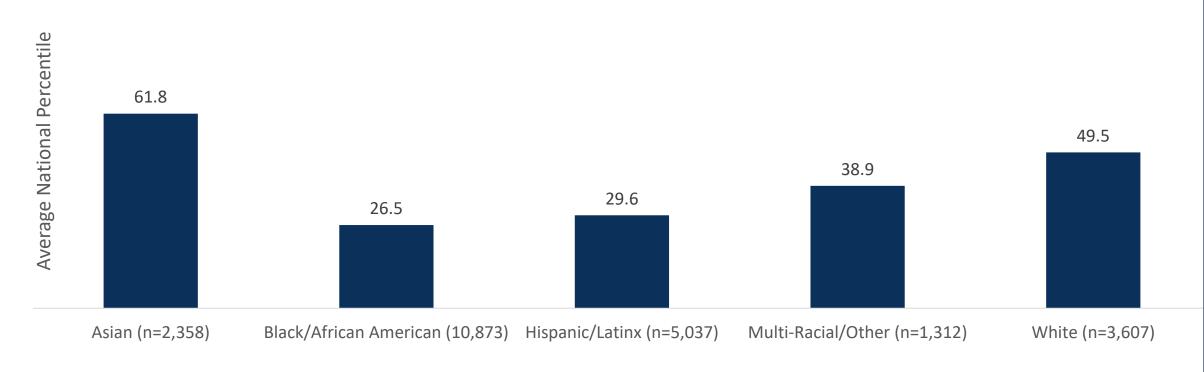
Average National Percentiles

How are students performing compared to the national sample?

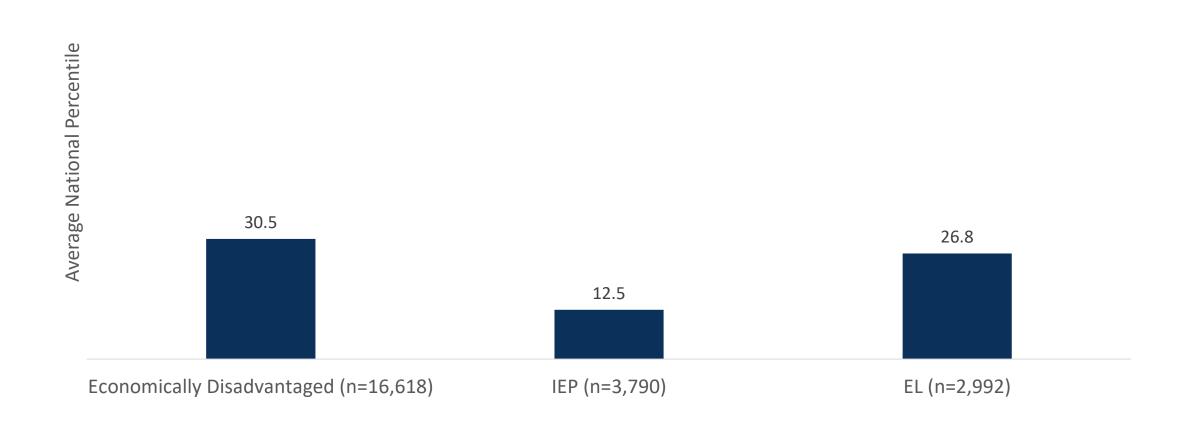
Overall, students in grades 6-8 had an Average National Percentile (ANP) of 35.1, meaning they scored higher than about a third of students in the national sample.



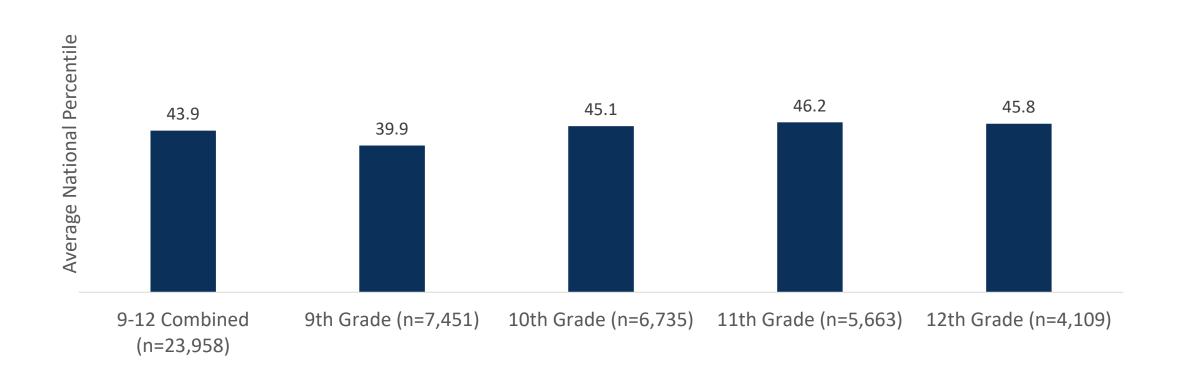
Asian and White 6th – 8th graders had higher ANPs than their Black/African American and Hispanic/Latinx peers.



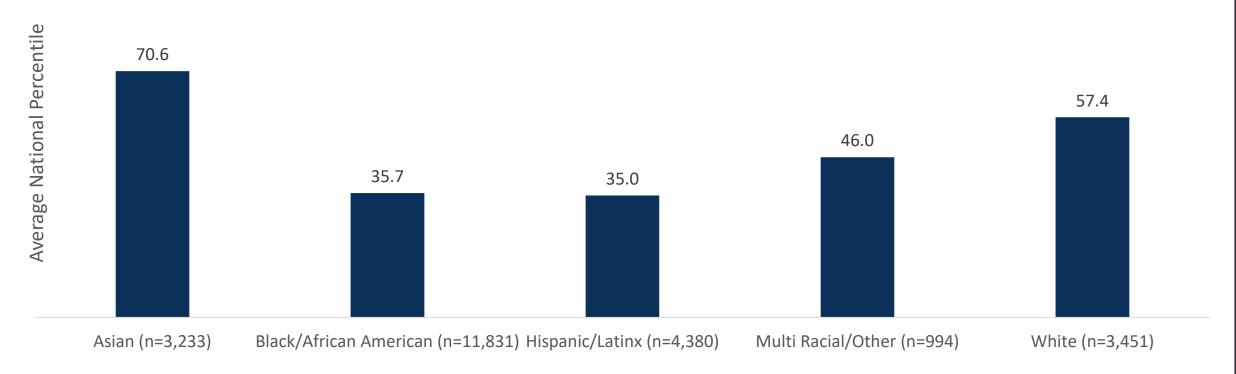
6th – 8th graders with an Individualized Education Plan (IEP) scored lower than about 88% of the national sample.



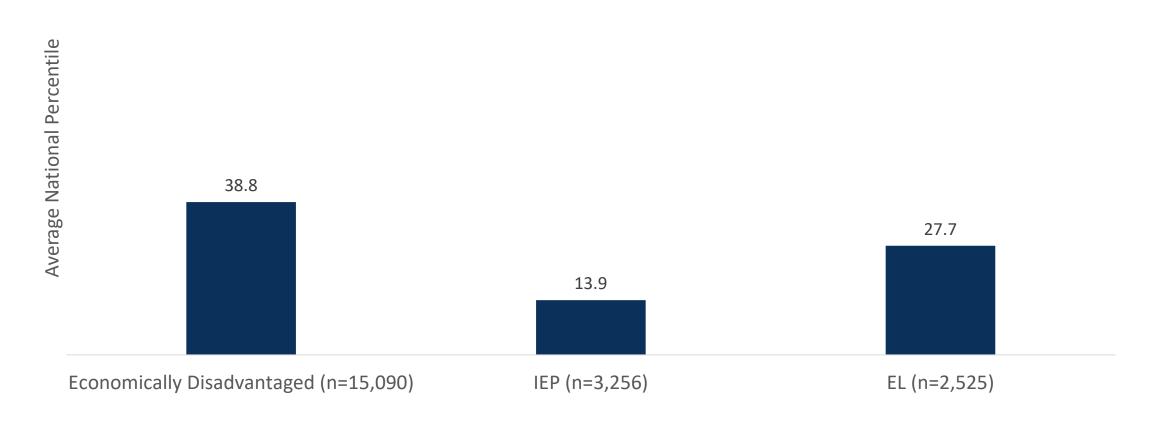
Overall, students in grades 9-12 had an Average National Percentile (ANP) of 43.9, meaning they scored higher than nearly one-half of students in the national sample.



Asian and White 9th – 12th graders had higher ANPs than their Black/African American and Hispanic/Latinx peers.



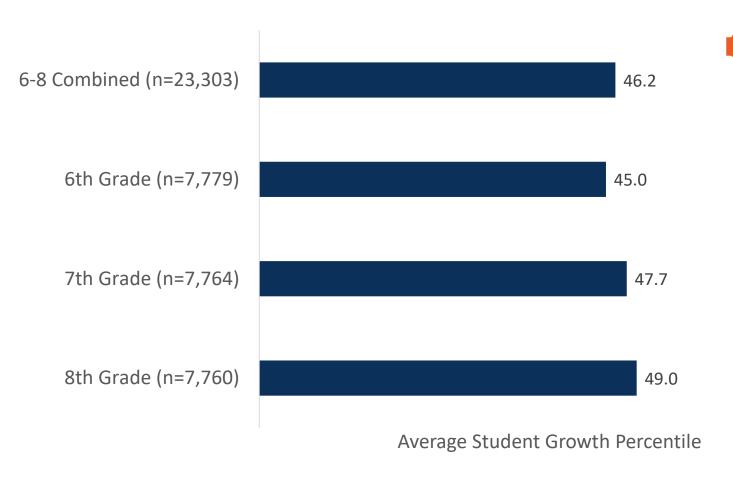
9th – 12th graders with an Individualized Education Plan (IEP) scored lower than about 87% of the national sample.



Student Growth Percentiles (SGP)

How quickly are students growing compared to similar students in the national sample?

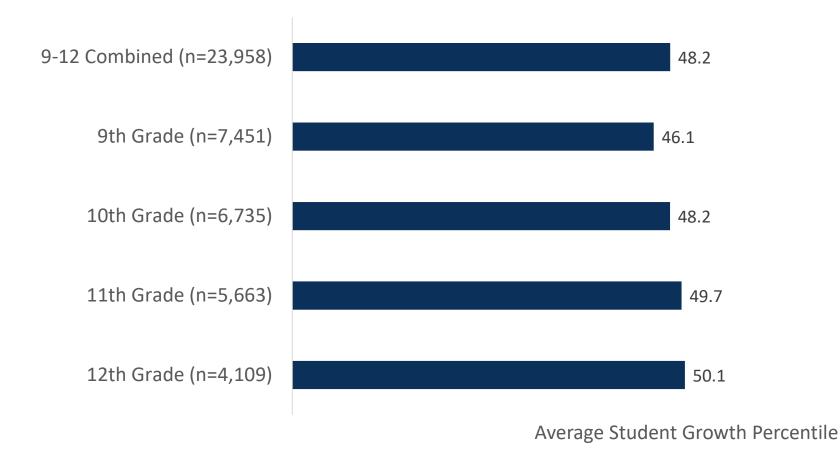
On average, 6th-8th graders demonstrated "typical" growth from fall to winter.



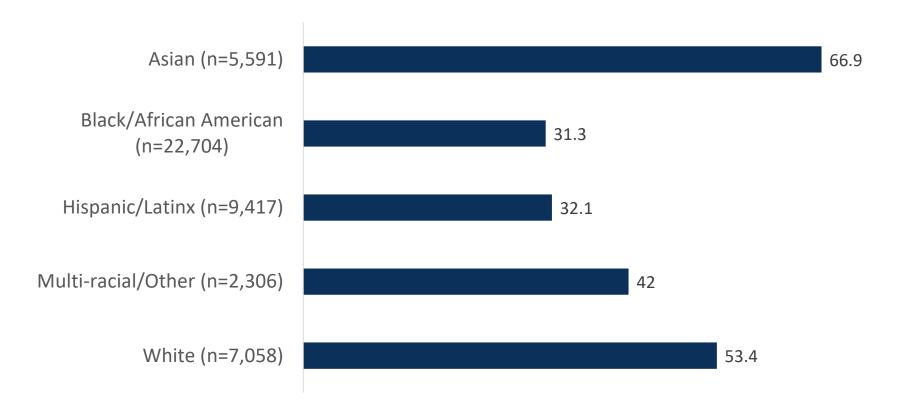
Remember - students are placed into three growth categories, based on their SGP:

- High Growth (SGP between 66th-99th percentiles)
- **Typical Growth** (SGP between 35th-65th percentiles)
- Low Growth (SGP between 1st-34th percentiles)

On average, 9th-12th graders demonstrated "typical" growth from fall to winter.

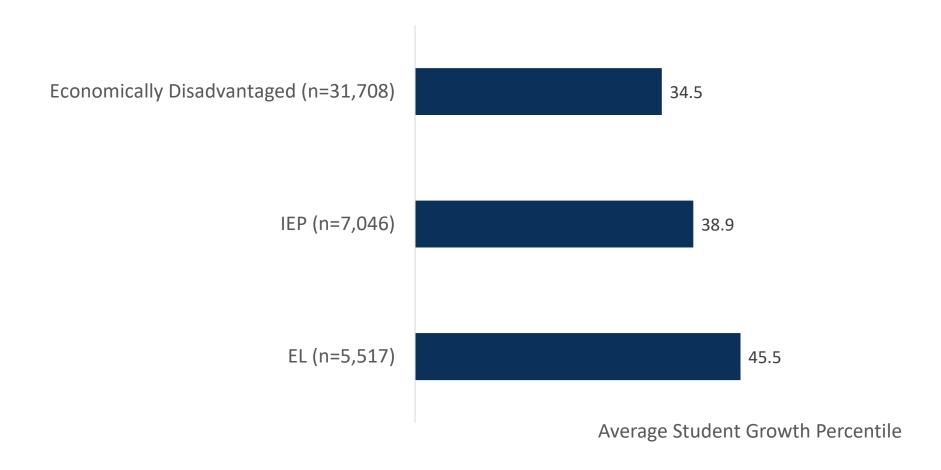


On average, Black/African American and Hispanic/Latinx students demonstrated "low" growth from fall to winter.



Average Student Growth Percentile

On average, economically disadvantaged students and students with IEPs demonstrated "low" growth from fall to winter.



Summary of Winter 2020-21 Star Math Assessment Data

- About one-third of 6th -8th graders and one-half of 9th -12th graders scored At/Above Benchmark on the winter Star Math assessment.
- The majority of 6th -12th grade special education students required either strategic or intensive intervention. EL students performed higher, on average, on the winter Star math assessments than on the winter Star reading assessments.
- The majority of 6th -12th grade students scored lower, on average, than their peers nationwide, except for Asian students.
- Black/African American, Hispanic/Latinx, and special education students demonstrated "low" growth between the fall and winter Star math assessments.