



Goals & Guardrails Progress Monitoring Goal 3: Math Grades 3-8

Office of Evaluation, Research, and Accountability

February 8, 2024



Math Performance Highlights

- In Math, the District is outpacing other large urban districts nationwide, and similar districts in Pennsylvania, in recovering from the pandemic.
- PSSA Math performance in grades 3-8 increased from 2021-22 to 2022-23.
- Star Math performance in grades 3-8 increased from Fall to Winter 2023-24 and from Winter 2022-23 to Winter 2023-24.
- From Winter 2022-23 to Winter 2023-24, a higher percentage of grade 3-8 students moved up a performance level (22%) on Star Math than dropped a performance level (16%).
- All student groups saw increases in the percentage of students scoring At/Above Grade Level, including English Learners (+4.4 percentage points) and students with IEPs (+1.7 percentage points) between Fall and Winter 2023-24.



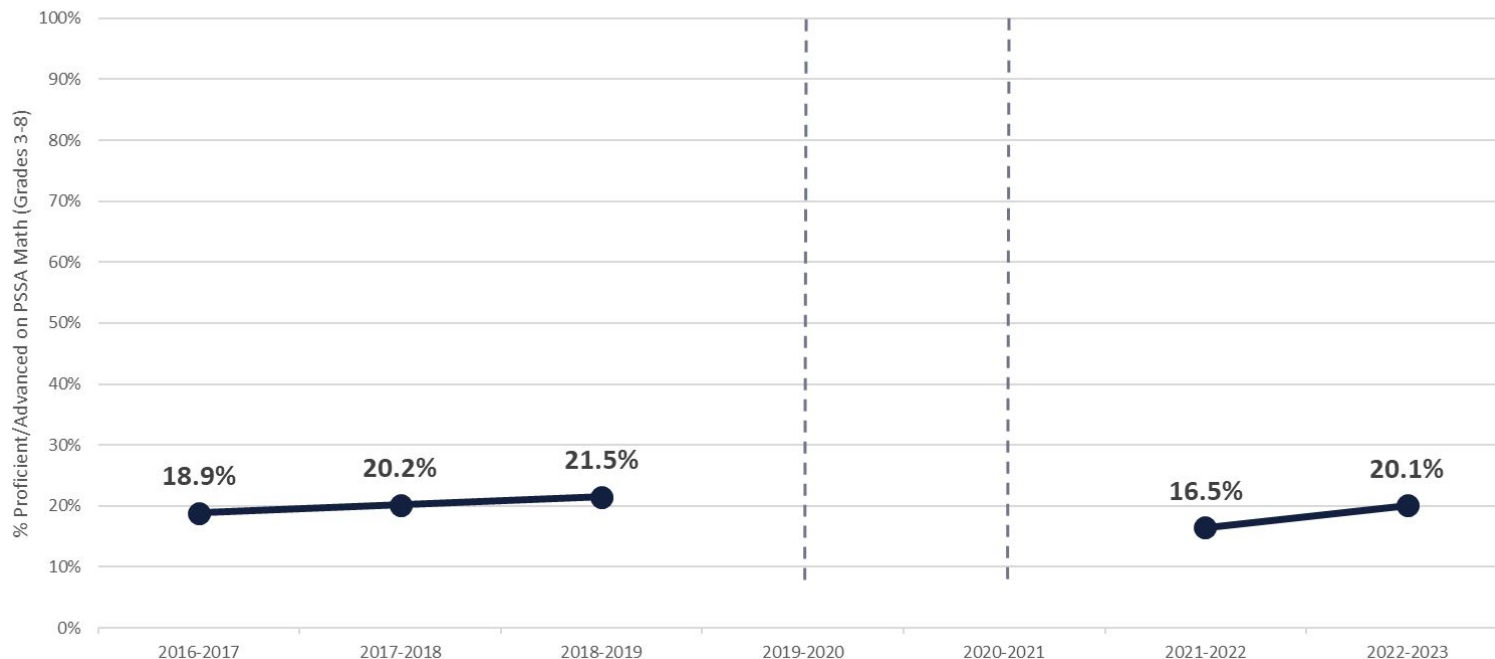
Where Have We Been?

Goal 3

PSSA Math Proficiency Grades 3-8

The percentage of students in grades 3-8 who scored **Proficient or Advanced on the PSSA Math** rose from 16.5% in 2021-22 to 20.1% in 2022-23 (+3.6 percentage points).

PSSA Math Proficiency Rate: Grades 3-8



Goal 3

Math Curriculum

Strategic Action 3.2: Purchase and implement standards-aligned core instructional resources for math (in partnership with teachers, school leaders, and parents/guardians).

Summer 2023

Material Distribution

- **100% of schools** received the needed materials in advance of the start of the school year

Trainings

- **661 SDP Staff** participated in training to new math curriculum before the 2023-2024 school year.
- **3,158 Teachers** attended the Illustrative Math (IM) Teach and Learn in August 2023.

September 2023 through January 2024

IM Math Professional Learning Sessions

- **3,000+ Teachers** participated in 4 sessions
- **330 School-Based Teacher Leaders** participated in 4 sessions
- **500+ School Leaders** participated in 5 sessions

Communication with Families

- **Hosted 6 sessions** for families and community members to learn more about curriculum



What do we know about implementation so far?

- 83% of teachers who participated in the training felt prepared to teach the curriculum.
- Teachers have the materials they need, but a lack of time is a barrier to implementation.
- Less than 5% of teachers and 3% of school leaders identify the materials/resources and professional learning as a barrier for implementation.



Where Are We Now?



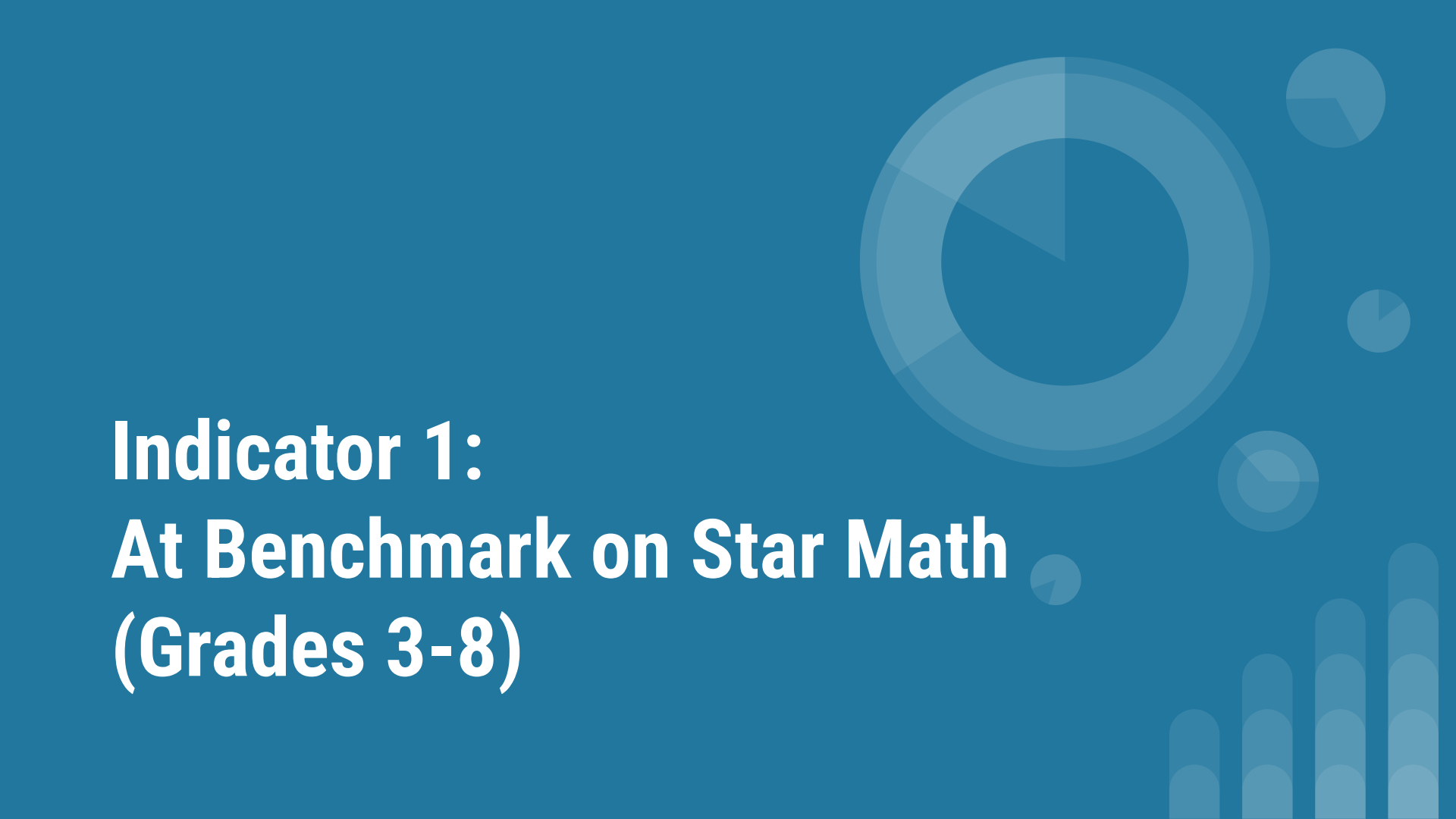
Goal 3 Leading Indicators

Goal 3: The percentage of students in grades 3-8 who are proficient on the state math assessment

Leading Indicator 1: The percentage of students in grades 3-8 who are At Target on the District's within-year math assessment

Leading Indicator 2: The percentage of students in grades 3-8 with high growth on the District's within-year math assessment **New**

Leading Indicator 3: The percentage of students in grades K-2 who are At Target on the District's required math Curriculum-Based Measures **New**



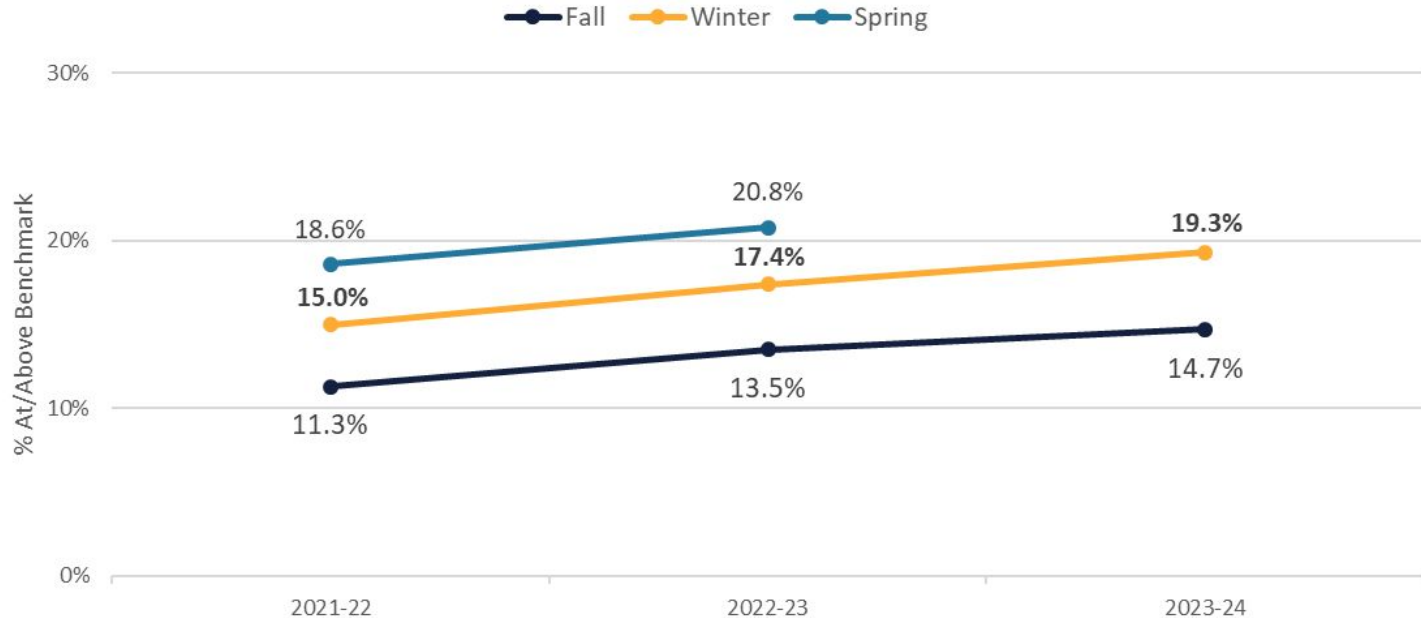
**Indicator 1:
At Benchmark on Star Math
(Grades 3-8)**

Indicator 1

Star Math: At Target

The percentage of students in grades 3-8 who scored **At/Above Benchmark on Star Math** increased from 17.4% in Winter 2022-23 to 19.3% in Winter 2023-24 (**+1.9 percentage points**).

Goal 3 - Leading Indicator 1: Star Math

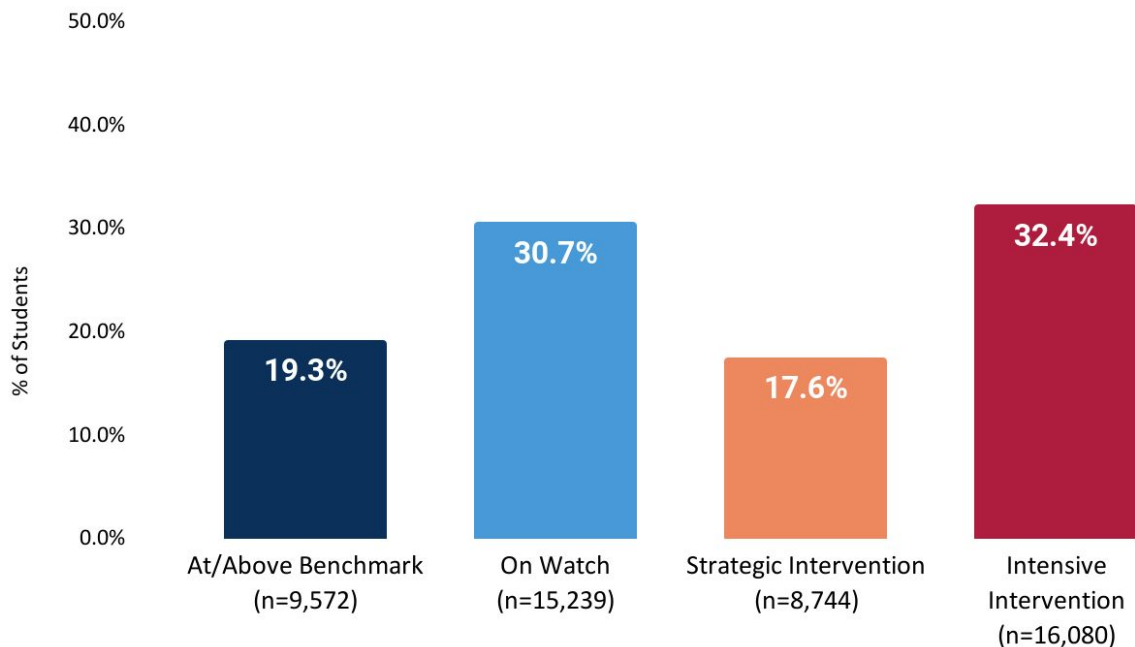


Indicator 1

Star Math: At Target

Half of all students (50.0%) scored **At/Above Benchmark** (19.3%) or **On Watch** (30.7%) in Winter 2023-24.

Goal 3 - Leading Indicator 1: Star Math, Winter 2023-24



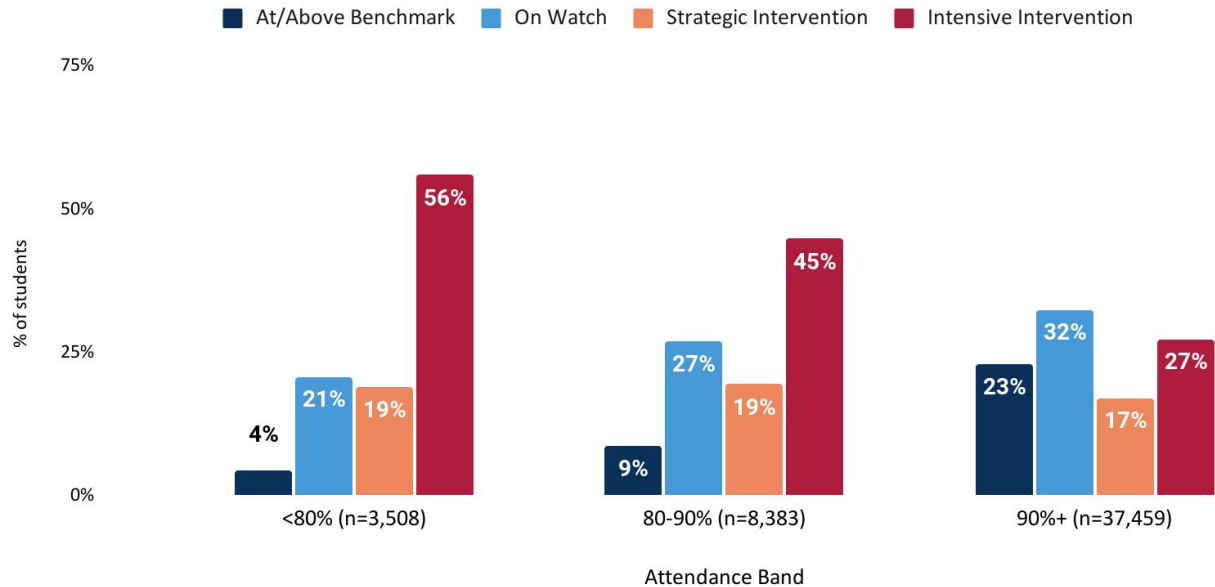
Indicator 1

Star Math: At Target

A higher percentage of students with higher attendance scored At/Above Benchmark on Star Math in Winter 2023-24.

Goal 3 - Leading Indicator 1: Star Math

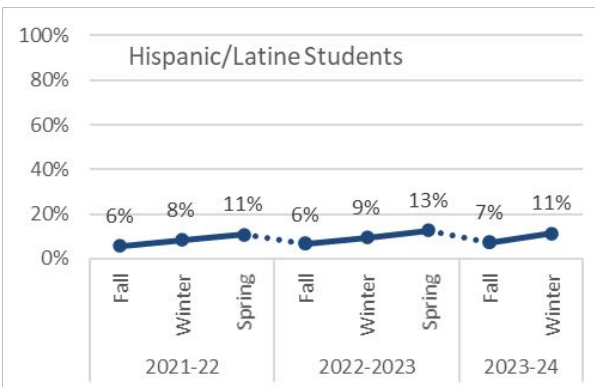
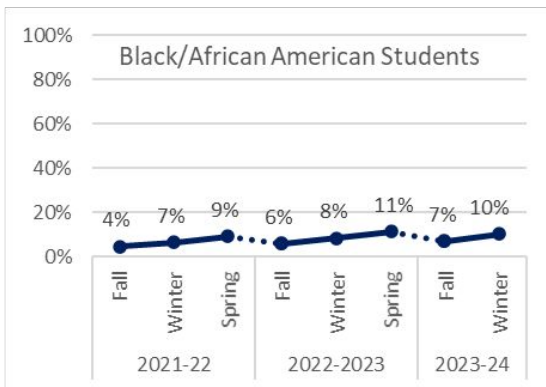
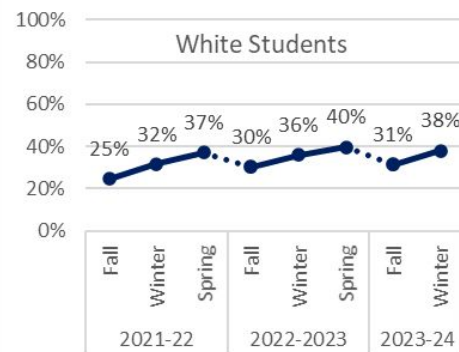
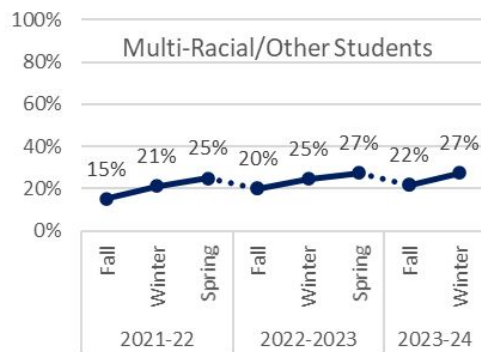
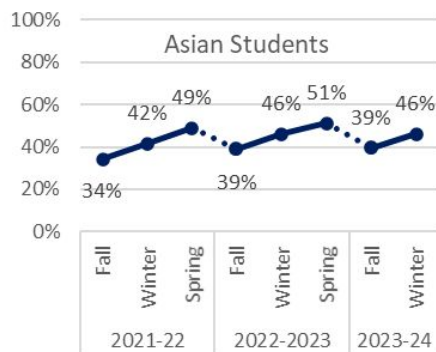
Percentage of students scoring at each performance level by attendance band, Winter 2023-24



Indicator 1

Star Math: At Target

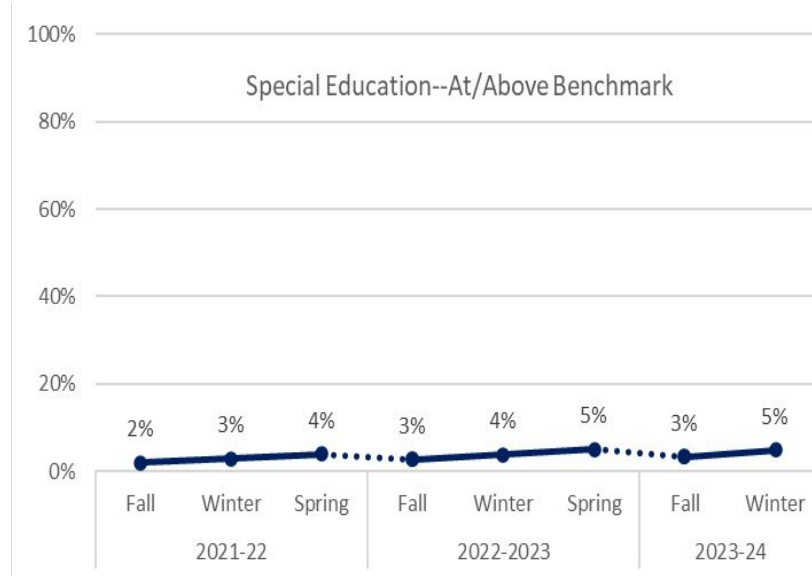
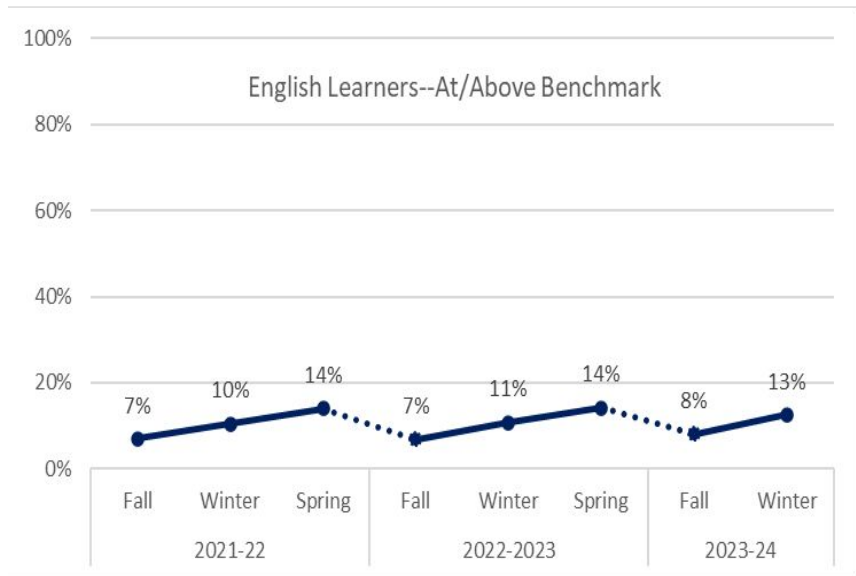
All race/ethnicity groups increased in the percentage scoring At/Above Benchmark from Fall to Winter 2023-24.



Indicator 1

Star Math: At Target

English Learners and students with IEPs increased in the percentage scoring At/Above Benchmark from Fall to Winter 2023-24.



Indicator 1

Star Math: At Target

Of current 4th graders in Winter 2023-24 (who were in 3rd grade in 2022-23), **more than one in five students (22.0%) moved up at least one performance level on Star Math** from the Winter 2022-23 assessment cycle.

		WHERE THEY STARTED Performance in 3rd Grade Winter 2022-23			
		At/Above Benchmark	On Watch	Strategic Intervention	Intensive Intervention
WHERE THEY ARE NOW Performance in 4th Grade* Winter 2023-24	At/Above Benchmark	16.3%	22.0% Improved by at least one performance level		
	On Watch	17.2%			
	Strategic Intervention	15.6% Declined by at least one performance level		5.7%	
	Intensive Intervention				23.3%

* <50 students who were in 3rd grade in Winter 2022-23 either repeated or skipped a grade in 2023-24 and are not current 4th Graders

**Indicator 2:
Growth on Star Math
(Grades 3-8)**

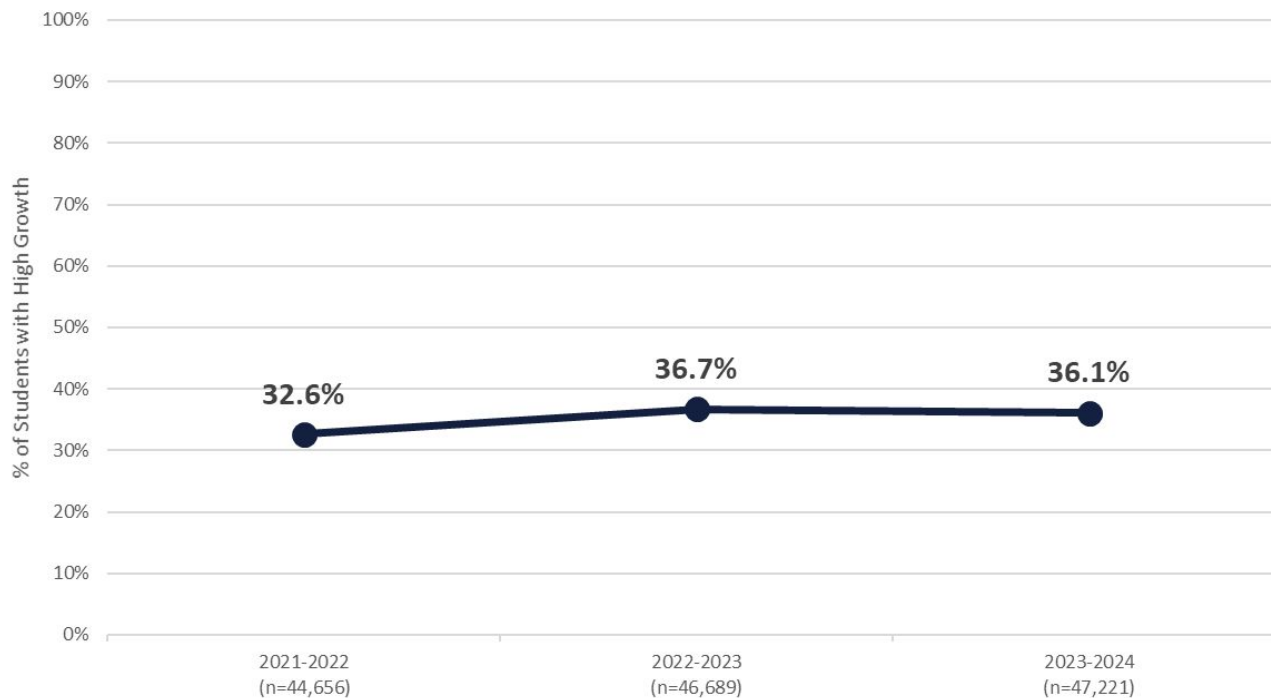


Indicator 2

Star Math Growth

The percentage of students in grades 3-8 who had **High Growth on Star Math** from Fall to Winter **decreased** from 36.7% in 2022-23 to 36.1% in 2023-24 (**-0.6 percentage points**).

Goal 3 - Indicator 2: High Growth



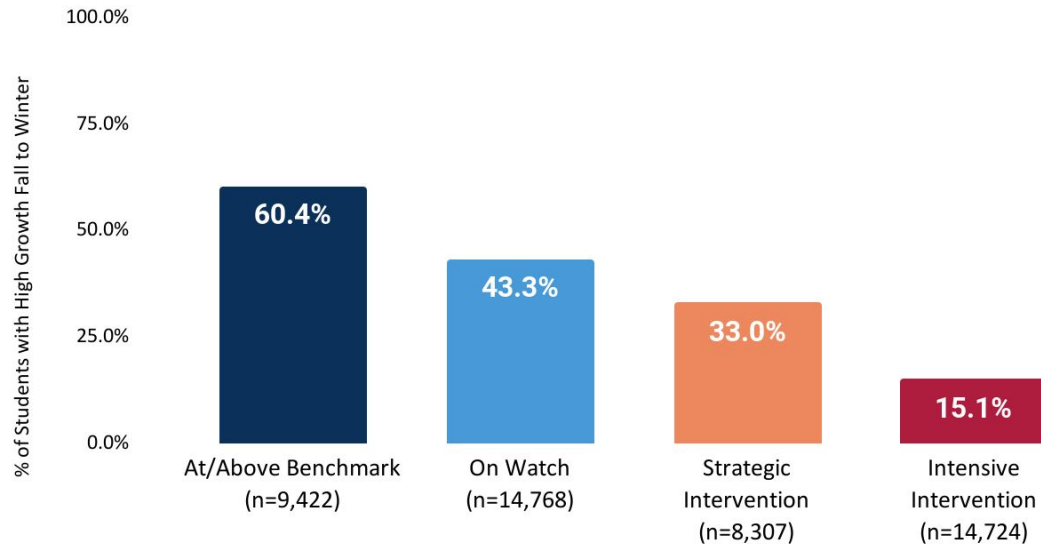
Indicator 2

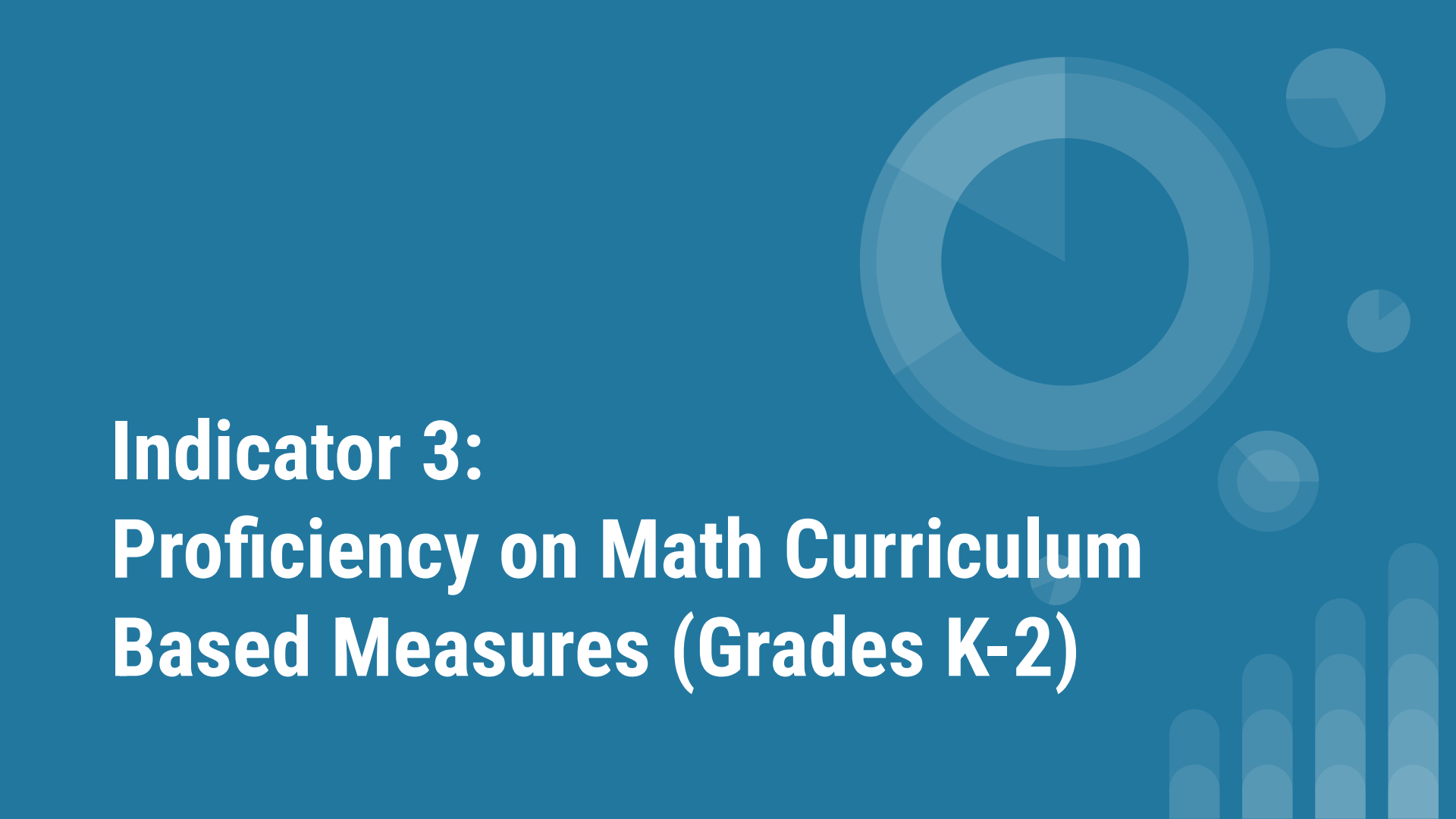
Star Math Growth

Six out of ten students (60.4%) who scored At/Above Benchmark on Star Math had high growth, compared to 15.1% in Intensive Intervention.

Goal 3 - Leading Indicator 2: High Growth

Percentage of Students with High Growth by Performance Category



The background is a solid blue color. In the upper right quadrant, there is a large, semi-transparent pie chart with four segments. To its right and below are several smaller, semi-transparent pie charts of varying sizes. In the bottom right corner, there is a semi-transparent bar chart with four vertical bars of increasing height from left to right.

**Indicator 3:
Proficiency on Math Curriculum
Based Measures (Grades K-2)**

Indicator 3

Star Math Curriculum Based Measures

The percentage of students in grades K-2 who scored **At/Above Benchmark on required Curriculum Based Measures** increased from Fall to Winter 2023-24 (between **+11.1 and 32.4 percentage points**).

- All grades saw increases in performance on each required curriculum-based measure (CBM) from Fall 2023 to Winter 2023.
- This increase is consistent with changes from Fall to Winter in 2021-22 and from Fall to Winter in 2022-23.

Required CBMs for Grades K-2 with Fall to Winter percentage point change

Kindergarten	Grade 1	Grade 2
Numeral Recognition (+11.4)	Numeral Recognition*	Addition to 10 (+22.2)
Quantity Comparison (+19.4)	Quantity Comparison (+15.7)	Addition to 20 (+15.7)
	Addition to 10 (+32.4)	Subtraction from 10 (+11.1)

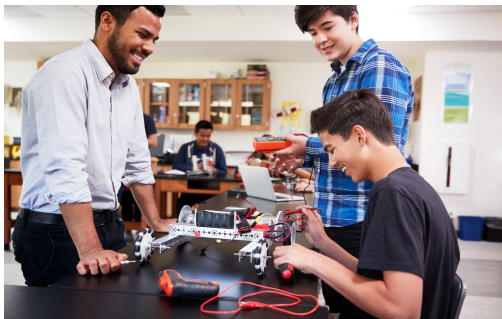
* Numeral Recognition is only required in the Fall for Grade 1.



Where Are We Going?

Current Activities and Focus for the 2024-25 School Year

- Teachers and School Leaders **focus on implementation** of Illustrative Math based on professional learning that has been provided to date.
- **Two Math professional learning vendors** are providing targeted professional learning and coaching to Network staff to build capacity and provide continuous implementation support at the school level.
- **Monthly Family Sessions** and **training for school-based staff** to support Math Family initiatives at the school level.
- Planning **Summer Learning Opportunities for school leadership teams and teachers** to continue to support Illustrative Math Implementation.
- Planning to **work with a vendor to design a Curriculum Implementation plan for 2024-25**, with a focus on Math and new ELA instructional resources.
- Creation of an **Accelerate Philly Schools Plan**.





THE SCHOOL DISTRICT OF
PHILADELPHIA