

Update on Louisiana Math



October 2024 | BESE

Louisiana's Math Pillars



school structures
prioritize **all students'**
successful engagement
in **high-quality,**
grade-level core math
instruction alongside
peers



timely, proactive
interventions
connecting
prerequisite learning
to upcoming and
current grade-level
work



ongoing
professional
learning and
proactive planning
are essential for
effective teaching
and accelerating



families,
caregivers, and
communities play
an essential role at
all ages and stages

How will we measure success?

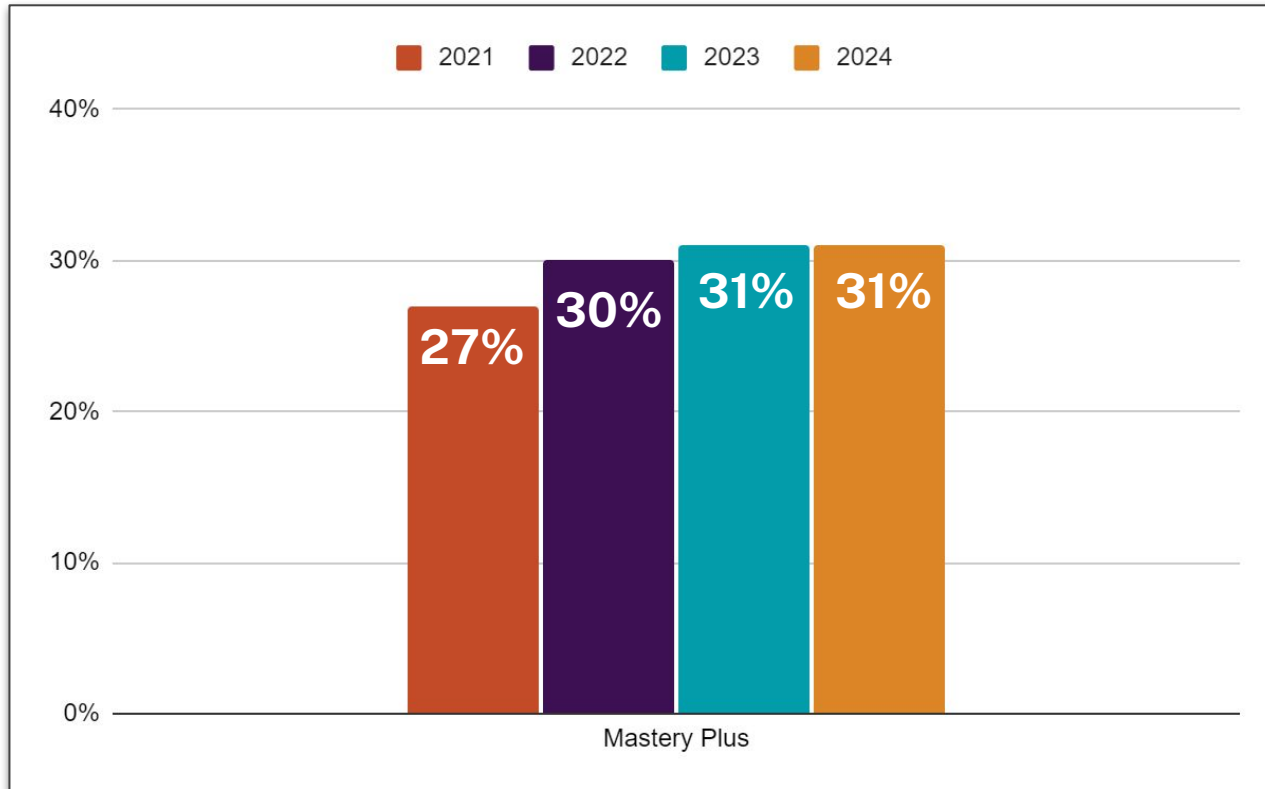
Key Performance Indicators

- Grow the percentage of students proficient and above on LEAP 3rd grade math by 10 percentage points by 2028.*
- Grow the percentage of students proficient and above on LEAP 8th grade math by 10 percentage points by 2028.*
- Increase NAEP 4th grade math scaled score by 10 points by 2028.*

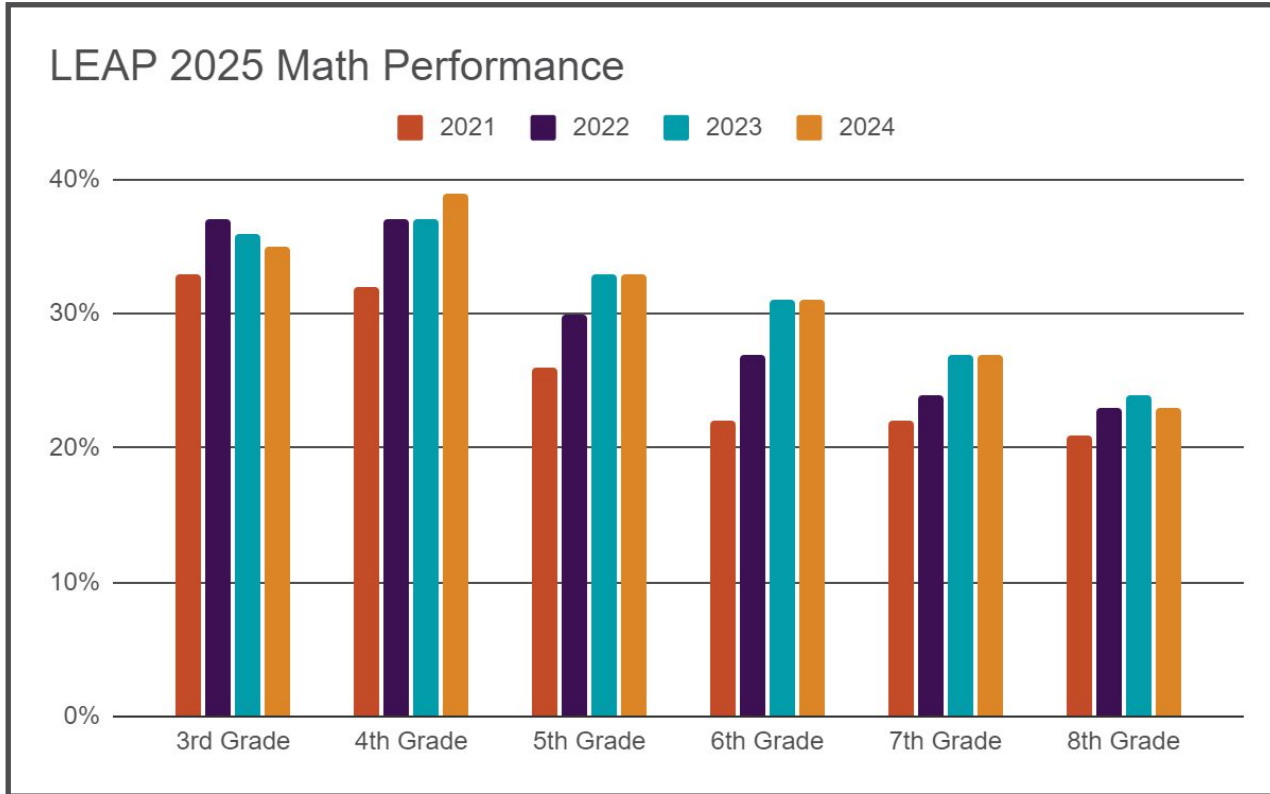
**Would attain the highest achievement level in Louisiana's history*



2024 LEAP Grades 3-8 Math Mastery+ Rates



2024 LEAP Grade 3-8 Math Mastery + Rates



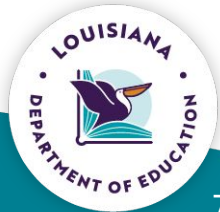
Numeracy Professional Learning



Numeracy Professional Learning: Act 260 of 2023

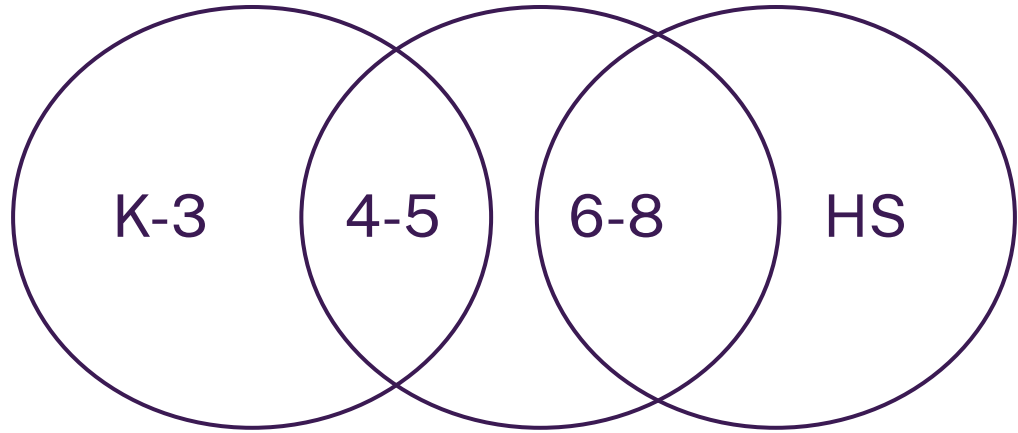
The Louisiana Department of Education (LDOE) has developed a full suite of Numeracy Professional Learning courses for K-12 math teachers. This includes the training required by [Act 260 \(2023\)](#).

Act 260 requires all grade 4-8 mathematics teachers to complete an approved professional learning course that focuses on numeracy skills instruction **by August 1, 2025.**



Numeracy Professional Learning: Course Design

- Each course consists of 25 modules.
- Each module:
 - is expected to take about two hours to complete.
 - includes learning experiences and application tasks.



Grade K-3
Optional

Grade 4-8
Act 260 **Required**

High School
Optional



Numeracy Professional Learning: Feedback

“The most helpful aspects of this training are learning what prerequisite knowledge my students have, learning how standards progress through grade levels, and how to use various models.”

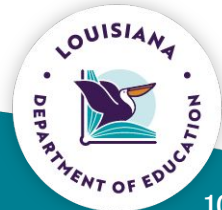


Numeracy Professional Learning: Metrics

REQUIRED grades 4-8 Numeracy Training	
Total Learners Enrolled*	2,881
Total Learners Required	3,825

576 Leaders are enrolled in the Leader Support Course.

*Currently tracking enrollment, but will shift to completion.



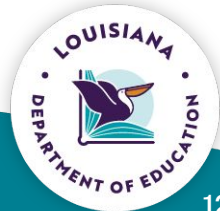
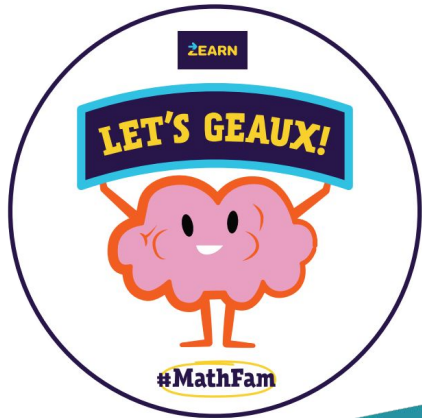
Zearn Implementation



What is Zearn?

Zearn is an online math platform designed to catch students up and move them forward.

- Zearn focuses on success in **grade-level** math by providing support to students as they struggle.
- Reports highlight struggling students so that teachers can provide **individualized** instruction.
- Zearn **efficiently** engages all students in quality mathematics, freeing the teacher to work with those who most need support.



Why Zearn?

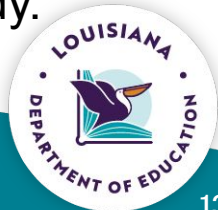
2022-2023 analysis builds on approach taken in 2021-2022, expanding rigor with additional year of data and enhanced analytical method



Utilizes the same rigorous quasi-experimental design as the SY 2021-2022 impact study. Findings measure the differences in LEAP math performance between matched students who used Zearn and students who did not use Zearn.

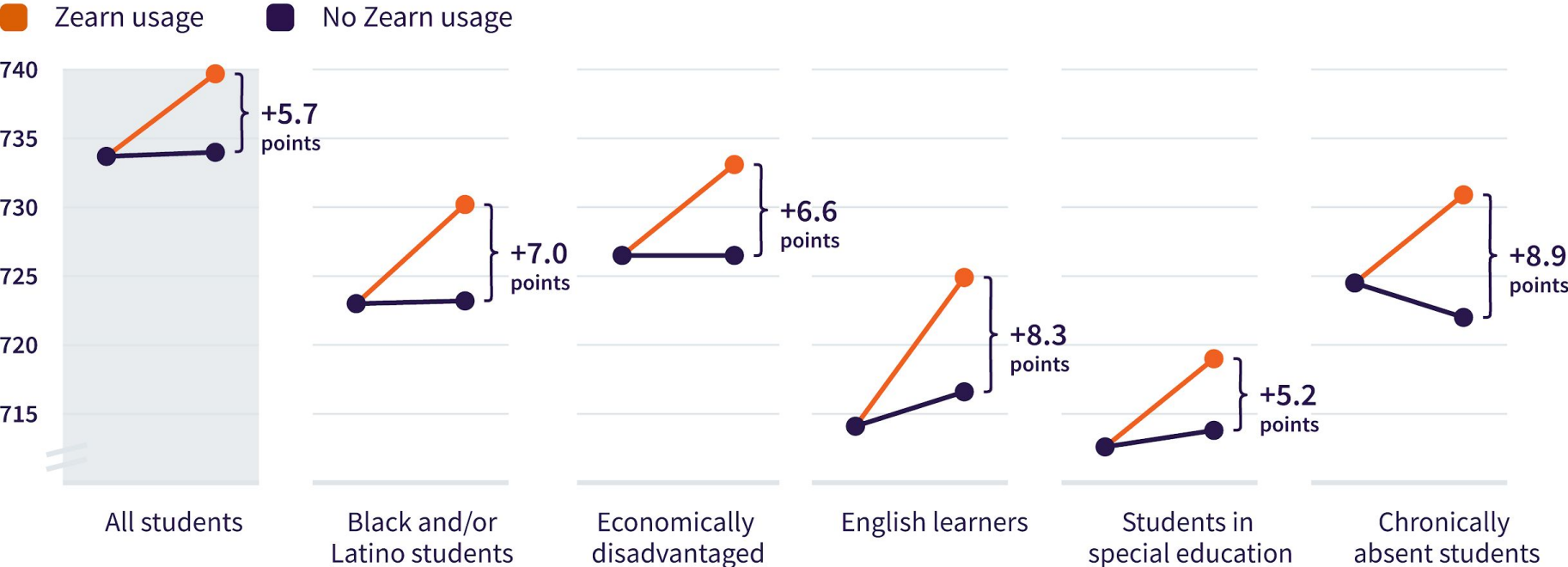


Two-year analysis allows for a significantly larger and more robust study by including 36,000 G4-8 students across 41 parishes, a 2.5x larger sample than the 2021-2022 study.



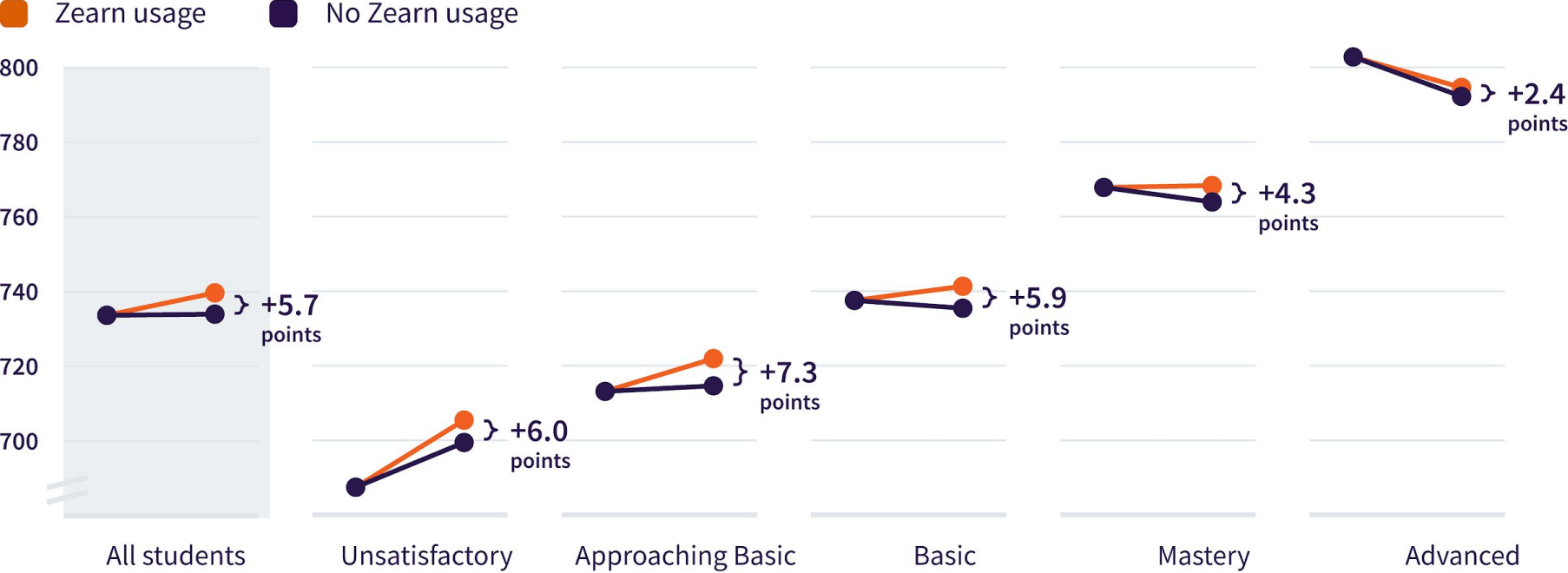
Consistent Zearn usage resulted in a 6-point increase in LEAP math scores, with notable gains across sub-groups

Impact of Zearn Math on LEAP Scale Scores by Student Subgroup



Consistent Zearn usage resulted in greater scale score growth across all starting LEAP Achievement Levels

Impact of Zearn Math on LEAP Scale Scores by Starting Achievement Level

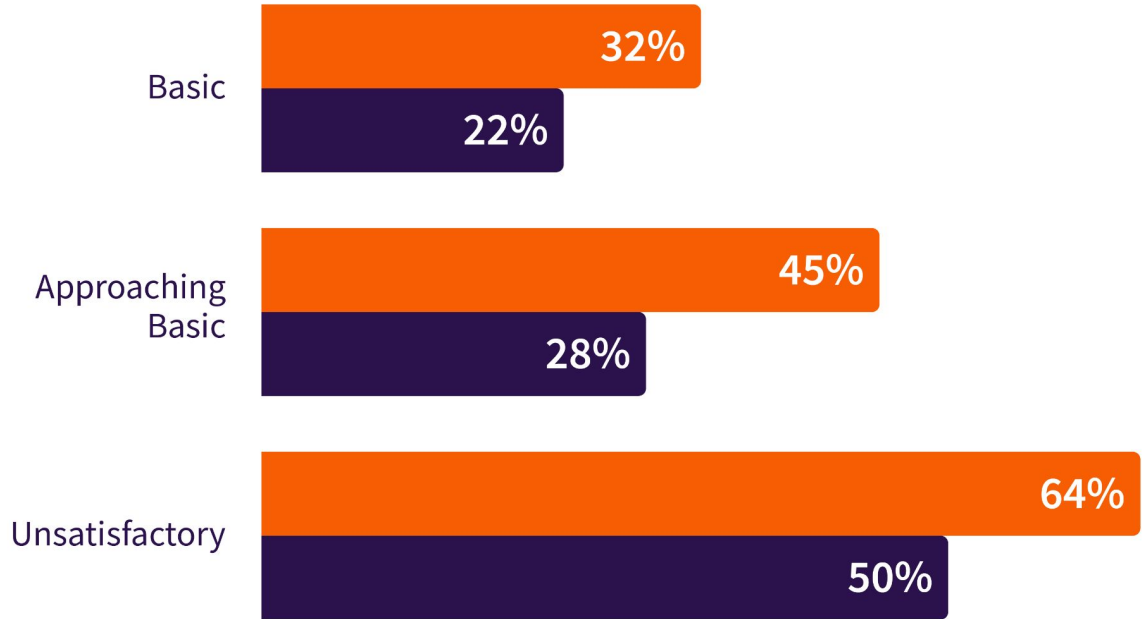


64% of students in the study scoring at the lowest level of math achievement who consistently used Zearn Math improved at at least one Achievement Level.

Student Mobility by Starting Achievement Level

■ Zearn usage

■ No Zearn usage



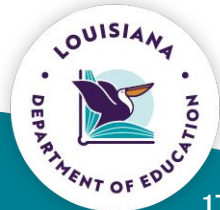
2024-2025 Anchor Schools

Zearn Anchor Schools receive specialized support including:

- dedicated professional learning onsite for teachers and leaders;
- biweekly coaching for schools and monthly coaching for system leaders; and
- data analysis support to deepen implementation.

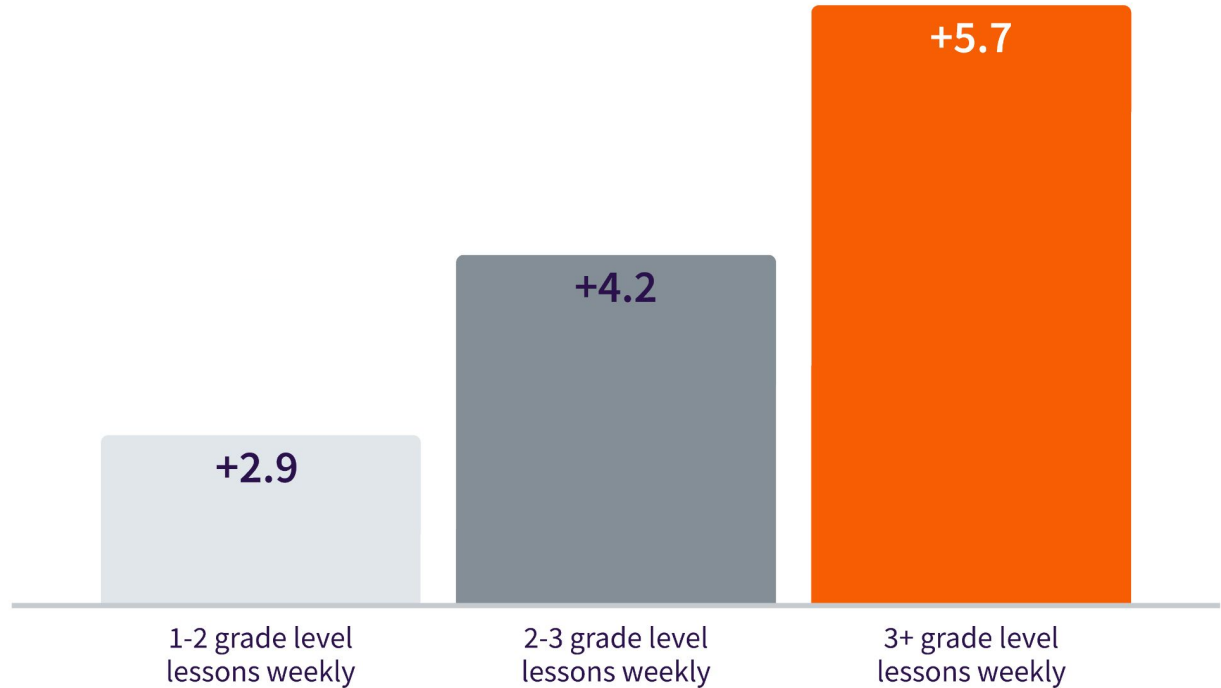
Anchor Schools were identified through 2024 data with the support of system leadership.

- Tangipahoa
- East Baton Rouge Schools
- Monroe City
- Jefferson Parish Schools
- Redesign Schools



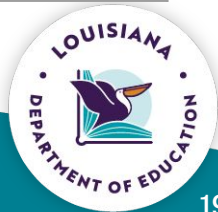
While the most substantial gains are observed in students who completed 3+ Zearn lessons each week, any Zearn dosage contributes to LEAP scale score growth

Impact of Zearn Math on LEAP Scale scores, by Zearn Dosage



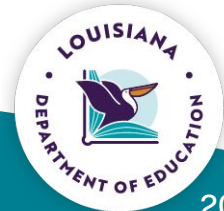
Zearn Implementation: Metrics

Zearn Usage	Actuals SY22-23	Actuals SY23-24	Actuals August 2024	Goal for SY24-25
Completed 2+ Lessons a week	57,000	77,000	19,887	134,750
Completed 3+ Lessons a week	37,000	45,000	10,487	78,750



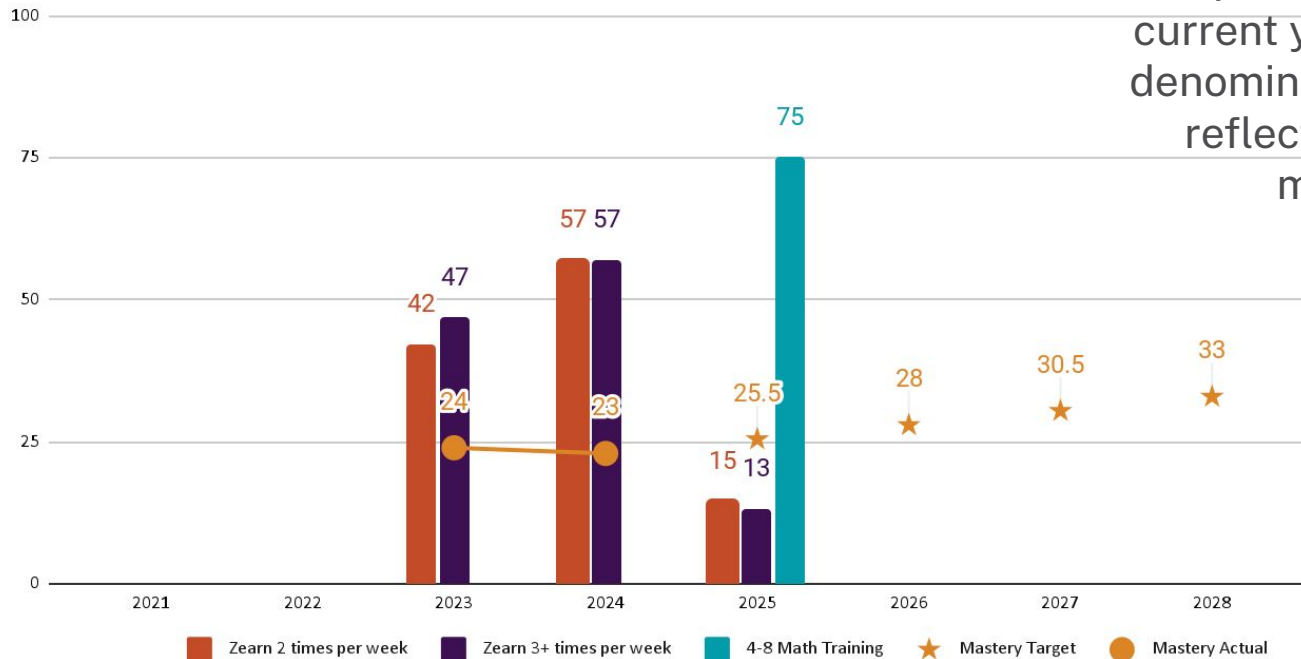
3rd Grade KPIs and Key Endeavor Metrics

Zearn percentages reflect current year goal as the denominator, numerator reflects only a partial month of school.



8th Grade KPIs and Key Endeavor Metrics

Zearn percentages reflect current year goal as the denominator, numerator reflects only a partial month of school.



Tutoring

Steve Carter Education Program and Accelerate High Dosage Tutoring



Tutoring During School Day

Accelerate: High Dosage Tutoring

- \$30 million available for high-dosage tutoring for low performing students in **grades K-5**.
- School systems choose providers for this program and will implement tutoring services **within the school day**.
- Parents and teachers should **reach out directly to their school system** to inquire about participation plans and student eligibility.

Tutoring Outside School Day

Steve Carter Tutoring Program

- \$5 million available to **K-12 grade** public school students who are below reading and mathematics proficiency.
- Tutoring sessions must be held **after school hours** in-person or virtually.
- **Families will apply** through a portal and, if approved, will select an approved tutoring provider.



Numeracy Screener

Act 650 of 2024



Numeracy Screener: Act 650 of 2024

- Provide each student in K-3 age-appropriate systematic foundational numeracy skills with instruction based on methods proven to provide a strong numeracy foundation.
- Within the first thirty days of each school year, administer a numeracy screener; in December, administer a numeracy development progress monitoring tool; and in April, administer an end-of-grade numeracy assessment.
- Notify parents/legal guardians if their student has been identified as having numeracy skills below grade level, provide mid- and end-of-year updates.
- Provide numeracy improvement plans to identified students and provide numeracy interventions and supports.



What's to Come

- Differentiated support for systems based on data
- Continued leader support for
 - Act 260 Numeracy Professional Learning
 - Zearn Implementation
- Regional Collaboratives on Instructional Coherence
- Shift to School-Specific Zearn Training
- Monthly Leader Virtual Collaboration
- Expand Zearn Anchor Schools support

