



ExploreLearning Reflex

California Progress Report

2023-2024 School Year

Prepared by ExploreLearning Research
Research@explorellearning.com

Program Description

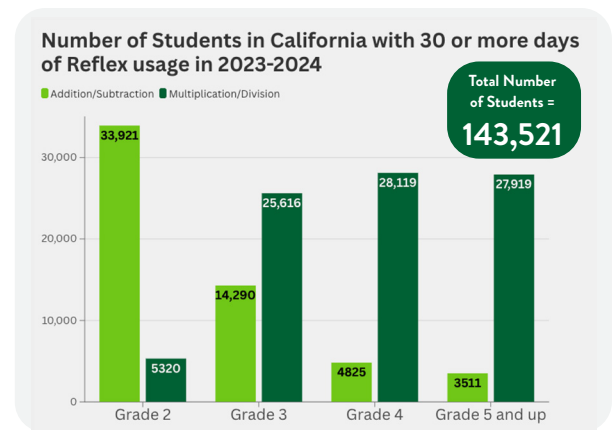
ExploreLearning Reflex is an adaptive, online program that helps students in grades 2+ develop math fact fluency—the automatic (quick and effortless) recall of basic math facts. With Reflex, every student can build the confidence and accuracy with math facts they need to take on more complex math with ease. Full of games that students love, Reflex continuously monitors math performance to help students build fact fluency at their own pace while fun games and rewards boost motivation and confidence. Reflex uses research-proven methods to build math fact fluency for lasting impacts on student success.

Across multiple grade levels, standardized tests, and benchmark assessments —students who use Reflex are scoring higher and growing faster than their peers.

California Program Usage

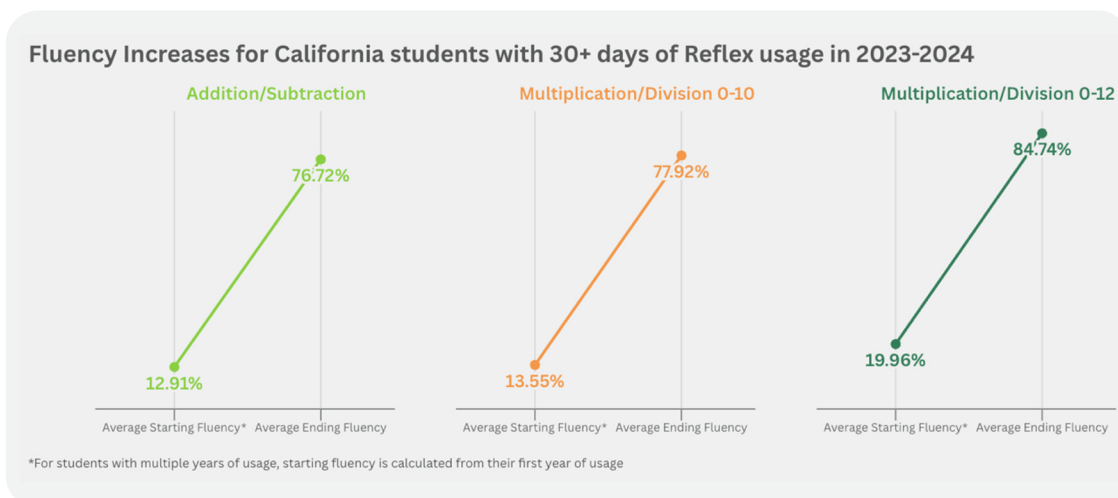
Reflex supported diverse learning needs and dynamic implementations during the 2023-2024 school year, and students of all levels across **California** made substantial gains in math fact fluency while using Reflex!

Overall, **143,521 students** in grades 2-6 used Reflex with fidelity (30 or more days of usage) during the 2023-24 school year across **1,100 schools in California**. These learners used Reflex for an average of **65 days** during the 2023-2024 school year.



California Student Fluency Growth

Students who used Reflex with fidelity in **California** made substantial progress in each Reflex assignment. While most students began the year demonstrating fluency **below 20%** within all three assignments, by the end of the 2023-2024 school year the average student with 30 or more days of Reflex usage achieved **75% or higher** fluency scores. This is an average fluency growth of nearly **65 percentage points**.



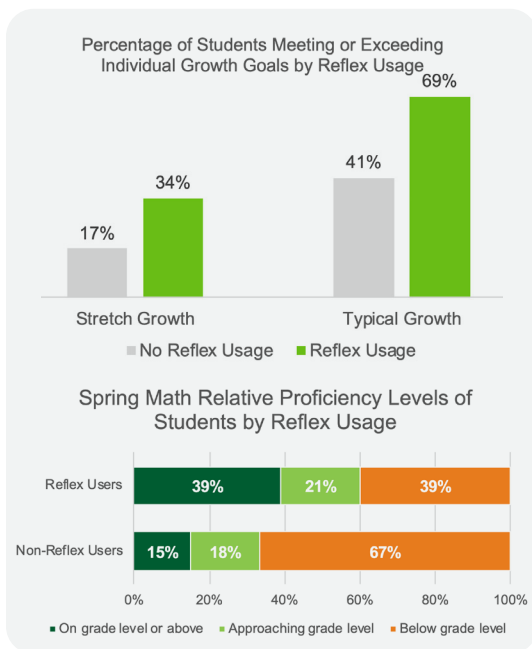
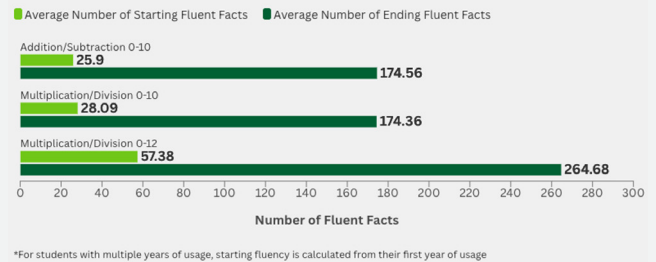
Supporting Academically At-Risk Students in California

Recent data has found that students living in poverty often face far more challenges than their peers. As a result, poverty is both directly and indirectly linked to lower mathematics achievement. In **California**, approximately **14%** of children live in poverty, and nearly **70%** of 8th graders are falling behind in math.

Reflex has shown to be an effective support for schools with high populations of students living in poverty. The following graph shows fluency growth over the course of the 23-24 school year for **California** students attending high-poverty schools (i.e., 75% of more students qualifying for FRPL).

Reflex is an effective support for improving math fact fluency at high-poverty schools across **California**, supporting both early math outcomes and long-term math success for this at-risk student population.

Average Fluency Gains for California Students with 30+ Days of Reflex Usage Attending High-Poverty Schools



California Research Highlight

A recent study conducted with over 500 2nd grade students in California found that students who used Reflex were twice as likely to meet their growth goals on a diagnostic math test compared to similar students with no Reflex usage.

Additionally, Reflex moved more students to grade-level proficiency, with greater fluency growth predicting higher math assessment scores, regardless of a student's baseline abilities.

[Read more about the research study here.](#)

To learn more about how Reflex can transform student outcomes, visit our [research page](#) or contact your [account representative](#).

Usage with Fidelity

Teachers are encouraged to have their students use Reflex at least three times per week. Reflex uses a "Green Light" indicator as a key motivator for students. Once a student answers a certain number of math facts correctly, a Green Light illuminates, marking the completion of a successful day of fact fluency practice.

In this report, students are considered to have used Reflex with fidelity if they used the program for at least 30 days.

Understanding Assignments

A student can be placed by their teacher in one of three assignments in Reflex:

- Addition and subtraction 0-10
- Multiplication and division 0-10
- Multiplication and division 0-12

Before starting Reflex, students should be assessed for conceptual understanding of both of the operations in the assignment. By the second half of 2nd grade, almost all students should be ready to build automaticity in addition and subtraction. By the second half of 3rd grade, almost all students should be ready to build automaticity in multiplication and division.

When a student achieves 100% fluency in an assignment in Reflex, the student is ready to move to a new assignment. After achieving 100% fluency in all levels, students can continue to use Reflex for practice.