

New Jersey Students Using Imagine Math Achieve Higher Scores on NJSLA

Overview

In the 2021–2022 academic year, Clifton Public Schools in New Jersey used Imagine Math with 4,444 students in Grades 3–8. On average, students used Imagine Math for 19.9 hours and passed 19.3 lessons. Imagine Learning collected and analyzed 2022 New Jersey Student Learning Assessment (NJSLA) mathematics data from the district.¹ For this study, students were matched on fall performance on a district-made benchmark assessment and several demographics. Analyses examined how using Imagine Math impacted students’ mathematics achievement on the NJSLA assessment.

Clifton PS, New Jersey

Demographics (N = 4,444)	Percent
English Language Learning	8%
Title I Math	10%
Special Education	17%
504	2%

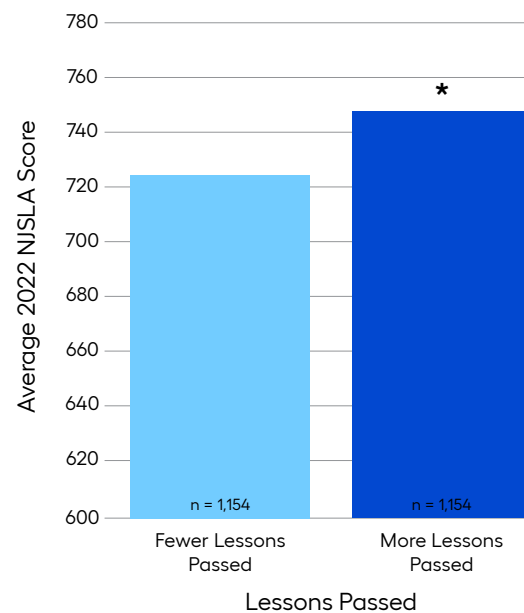
Results

Students who passed more lessons achieved statistically significantly higher scores on the 2022 NJSLA than their peers who passed fewer lessons (Figure 1, $p < .001$).² Furthermore, Imagine Math usage was found to positively impact students from diverse student backgrounds. Lessons passed had a positive and statistically significant relationship with 2022 NJSLA scores for students classified as Special Education and 504 (Figure 2, $p < .01$). Overall, these results demonstrate how usage of Imagine Math supports New Jersey students in achieving positive results on the NJSLA, particular for those classified as Special Education and 504 students.

¹Due to the COVID-19 pandemic, the NJSLA assessment was not administered in 2021. A district-made benchmark assessment from Fall 2021 was therefore used to determine students’ baseline mathematics abilities.

²Propensity score matching was used to create a matched sample of students based on whether they passed fewer or more than the average number of lessons passed for students in their grade level. Students were matched on their Fall 2021 district-made assessment score, grade, special education, Title I math, 504, and English learner status.

Figure 1. Average 2022 NJSLA Score by Lessons Passed in Imagine Math.



Note: Asterisk denotes statistically significant difference compared to lower usage group, * $p < .001$.

Figure 2. Association between Lessons Passed in Imagine Math and NJSLA Score by Special Education and 504 Classifications.

