

Imagine Math Usage Contributes to Success on ISAT

OVERVIEW

During the 2021–2022 academic year, Homedale School District in Idaho used Imagine Math with 396 students in Grades 4–8. On average, students used Imagine Math for 11 hours and passed 7.3 lessons. Imagine Learning collected and analyzed Spring 2021 and Spring 2022 Idaho Standards Achievement Test (ISAT) mathematics results. Analyses examined how using Imagine Math impacted student ISAT mathematics achievement.

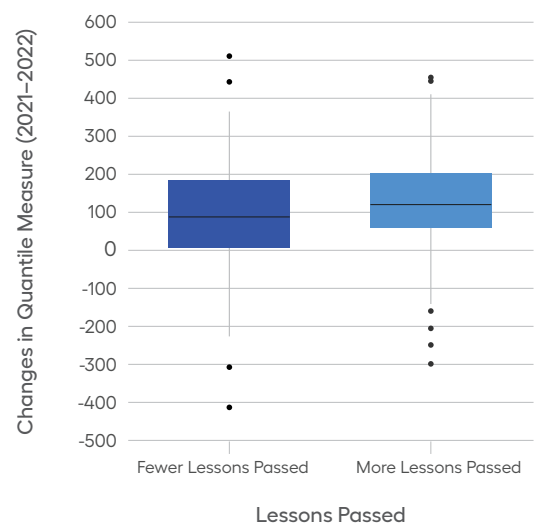
RESULTS

Overall, students who passed more lessons in the Imagine Math program were more likely to meet or exceed ISAT standards in Spring 2022. To further explore this finding, students who passed fewer lessons were statistically matched to those who passed more lessons based on several demographic and performance characteristics including Spring 2021 ISAT score, grade, gender, race, special education status, English language learner status, and free or reduced-price lunch status. Those who passed more Imagine Math lessons experienced statistically significantly greater increases on ISAT performance from 2021 to 2022 than those who passed fewer lessons (p -value = 0.014; see Figure 1). Taken together, this demonstrates the impact of Imagine Math usage on students’ math achievement as measured by the ISAT.

Table 1. Homedale School District, ID

Demographics (N=248)	Fewer Lessons Passed (N=124)	More Lessons Passed (N=124)
Female	50%	43%
Hispanic	27%	30%
White	69%	68%
Special Education	6%	5%
English Language Learner	7%	11%
Free or Reduced-Price Lunch	28%	32%

Figure 1. Average 2021–2022 Change in ISAT Quantile Measures by Imagine Math Usage Levels.



Note: Higher and lower levels of use were identified by determining whether students fell above or below the median number of lessons passed in their grade.