

Imagine Math Usage Drives Success for Grades 3–5 Students in Oklahoma

Oklahoma School District

Demographics (N = 3,973)	Percent
Female	49.3%
Hispanic	15.6%
Black/African American	5.7%
Asian	4.5%
American Indian/Alaskan Native	7.1%
Multiple	12.4%
Economic Disadvantage	37.8%
IEP	16.1%
English Language Learner	11.8%

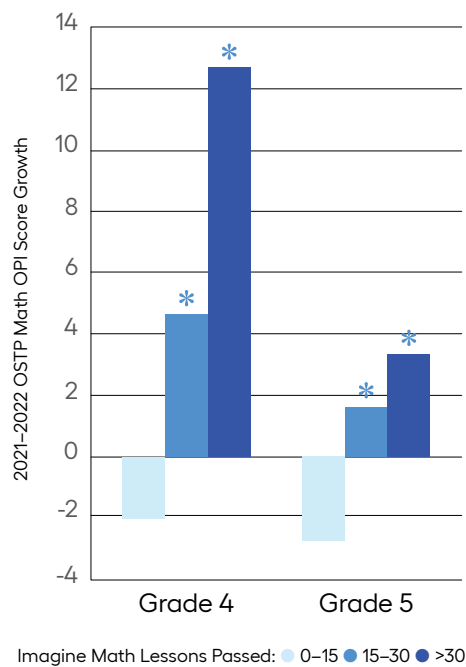
OVERVIEW

In the 2021–2022 academic year, a school district in Oklahoma used Imagine Math with 3,973 students in Grades 3–5. On average, students used Imagine Math for 22.2 hours and passed 19.6 lessons. Imagine Learning collected and analyzed 2021 and 2022 Oklahoma School Testing Program (OSTP) and Renaissance Star 360 (Ren Star) mathematics data from the district and separated students into groups based on levels of usage. Analyses examined how using Imagine Math impacted students’ mathematics achievement on these two assessments.

RESULTS

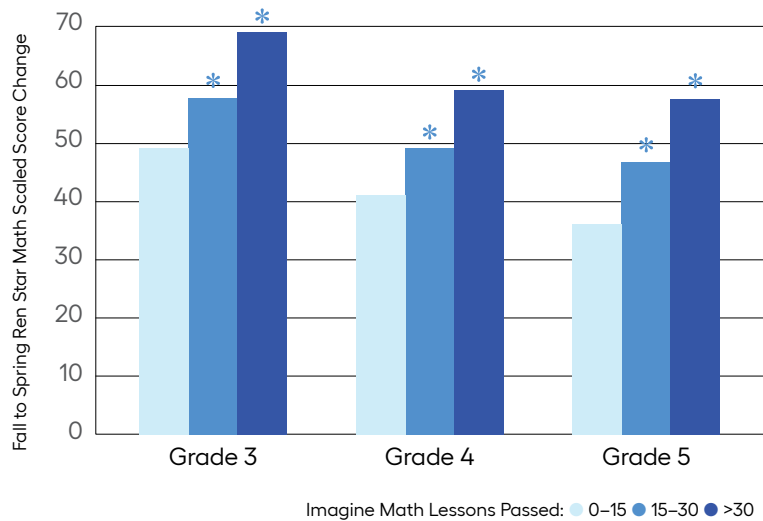
Overall, students who passed more lessons in the Imagine Math program experienced statistically significantly greater growth on the OSTP and Ren Star assessments than those passing fewer lessons (Figures 1 and 2). Additionally, a positive and statistically significant association was observed between the number of Imagine Math lessons passed and 2022 assessment scores for OSTP and Ren Star for several racial/ethnic subgroups (Figures 3 and 4) after controlling for other variables. Taken together, this demonstrates the impact of Imagine Math usage on students’ math achievement as measured by the OSTP and Ren Star assessments.

Figure 1. Association between lessons passed in Imagine Math and OSTP Math OPI score growth.



Note: Asterisks denote statistically significant difference compared to lowest usage group. *p < .05

Figure 2. Association between lessons passed in Imagine Math and Ren Star Math scaled score change.



Note: Asterisks denote statistically significant difference compared to lowest usage group. *p < .05

Figure 3. Association between lessons passed in Imagine Math and 2022 OSTP Math OPI for various racial/ethnic subgroups.

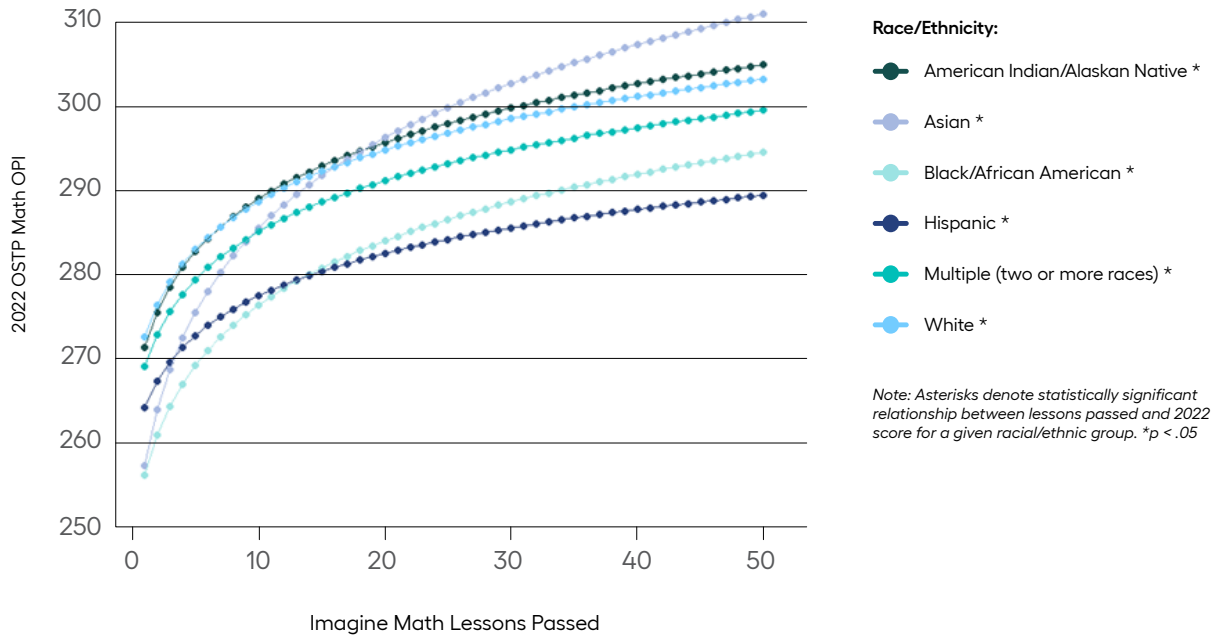


Figure 4. Association between lessons passed in Imagine Math and 2022 Ren Star score for various racial/ethnic subgroups.

