

Imagine Learning Product Usage is Associated with Greater Proficiency on the Arizona Academic Standards Assessment in Both Math and Reading

OVERVIEW

During the 2021–2022 academic year, Nogales Unified School District (NUSD) implemented two products from the Imagine Learning supplemental suite, namely Imagine Math and Imagine Language & Literacy to promote math and reading achievement for students in Grades 3–5. On average, 1,176 students used Imagine Math for 25 hours and passed 37 lessons. In Imagine Language & Literacy, 1,177 students used the program an average of 22 hours and passed 35 lessons. To measure the impact of these products on reading and math skills, Imagine Learning analyzed proficiency rates on the Arizona Academic Standards Assessments (AASA) by separating students into groups based on their amount of usage during the academic year.

RESULTS

On the Spring 2022 administration of the AASA, Imagine Learning product usage was significantly associated with proficiency for both math (Figure 1) and English Language Arts (Figure 2). Specifically, a significantly greater proportion of students in the higher usage groups (i.e., used the program at or above recommended levels) were labeled proficient on the AASA compared to students in the lowest usage group (i.e., used below recommended levels; see Table 1 for a breakdown by grade level). This study provides evidence of program efficacy when products are used as directed. It also highlights the promising benefits of using multiple Imagine Learning products together (in this case, Imagine Language & Literacy with Imagine Math).

Demographics	Math Sample (N = 1,176)	ELA Sample (N = 1,177)
3rd Grade	31%	31%
4th Grade	33%	33%
5th Grade	36%	36%
0-20 Hours	50%	47%
21-30 Hours	21%	32%
> 30 Hours	29%	22%
Female	48%	48%
Hispanic	99%	99%
Free/Reduced Lunch Price	80%	80%

Table 1. Percent of Students Proficient on the Arizona Academic Standards Assessment by Subject, Grade, and Usage Group.

Subject	Grade Level	0–20 Hours	21–30 Hours	>30 Hours
Math	3rd Grade	27%	37%	*56%
	4th Grade	18%	18%	*51%
	5th Grade	19%	*48%	*53%
ELA	3rd Grade	28%	*40%	39%
	4th Grade	20%	*35%	*33%
	5th Grade	27%	26%	*39%

Note: Asterisks denote values that are significantly different from 0–20 hour usage group, *p < .05

Figure 1. Percent of Grade 3–5 Imagine Math Students Scoring Proficient on the AASA Math in Spring 2022.

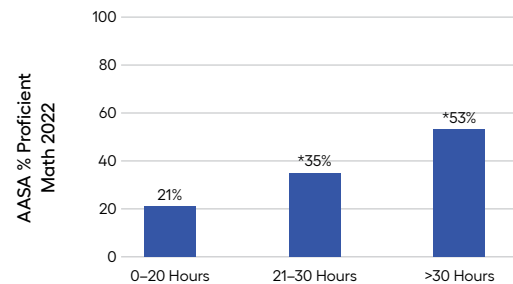
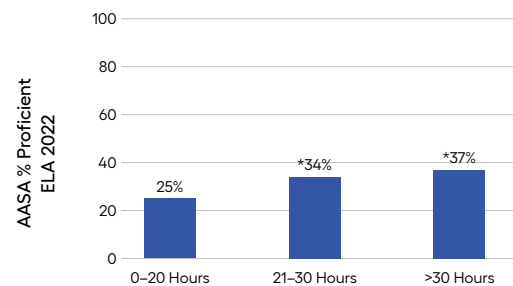


Figure 2. Percent of Grade 3–5 Imagine Language & Literacy Students Scoring Proficient on the AASA ELA in Spring 2022.



Note: Asterisks denote values that are significantly different from 0–20 hour usage group, *p < .05