

Imagine MyPath Leads to Growth on NWEA MAP Growth Assessments

OVERVIEW

During the 2021–2022 academic year, Moline-Coal Valley School District 40 in Illinois implemented Imagine MyPath Reading and Imagine MyPath Math with students in Grades K–5 for supplemental instruction.

IMAGINE MYPATH READING RESULTS

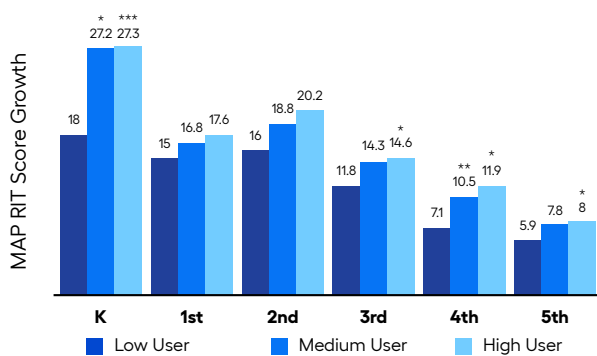
A total of 1,556 students used Imagine MyPath Reading. On average, these students were active in the program for six hours and passed 15 lessons during the year. Imagine Learning analyzed how program usage impacted students’ growth from Fall 2021 to Spring 2022 on the NWEA MAP Growth Reading assessments.

District Demographics

White	74%
Hispanic	16%
Black	5%
Two or more races	2%
Asian or Asian Pacific Islander	2%
Low Socioeconomic Status	23%

Students were organized into three groups based on their degree of usage. MAP RIT score growth was compared across these three groups, revealing significantly greater growth in the higher usage groups for students in Kindergarten, Third Grade, Fourth Grade, and Fifth Grade (Figure 1). See Appendix A for a descriptive report of Fall 2021 and Spring 2022 MAP RIT scores. Additionally, number of reading lessons passed was significantly correlated with MAP RIT score growth in all Grades K-5 after controlling for fall performance (Figure 2). See Appendix B for a descriptive report of this analysis.

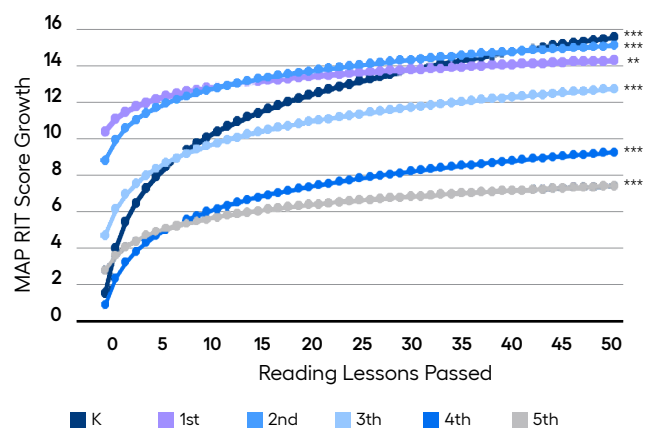
Figure 1. Average NWEA MAP Growth Reading RIT Score Growth from Fall 2021 to Spring 2022



Note. In Grades K–2, low usage refers to students with 0–15 lessons passed, medium usage is 16–30 lessons passed, and high usage is 31 or more lessons passed. In Grades 3–5, low usage refers to students with 0–5 lessons passed, medium usage is 6–10 lessons passed, and high usage is 11 or more lessons passed.

Asterisks denote values that are significantly different from low usage group, * $p < .05$, ** $p < .01$, *** $p < .001$

Figure 2. Association between Imagine MyPath Reading Lessons Passed and NWEA MAP Growth Reading RIT Score Growth from Fall 2021 to Spring 2022



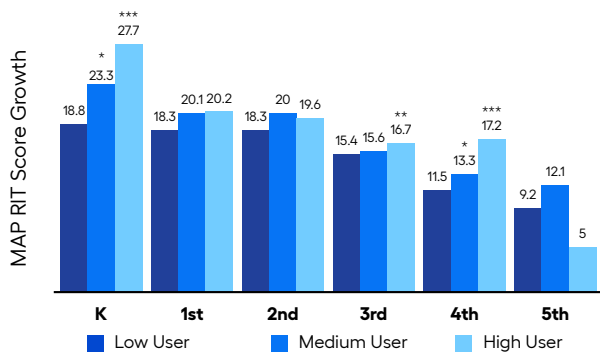
Note. ** $p < .01$, *** $p < .001$

IMAGINE MYPATH MATH RESULTS

A total of 1,567 students used Imagine MyPath Math. On average, these students were active in the program for six hours and passed 20 lessons during the year. Imagine Learning analyzed how program usage impacted students' growth from Fall 2021 to Spring 2022 on the NWEA MAP Growth Math assessments.

Students were organized into three groups based on their degree of usage. MAP RIT score growth was compared across these three groups, revealing significantly greater growth in the higher usage groups for students in Kindergarten, Third Grade, and Fourth Grade (Figure 3). See Appendix C for a descriptive report of Fall 2021 and Spring 2022 MAP RIT scores. Additionally, number of math lessons passed was significantly correlated with MAP RIT score growth in all Grades K-5 after controlling for fall performance (Figure 4). See Appendix B for a descriptive report of this analysis.

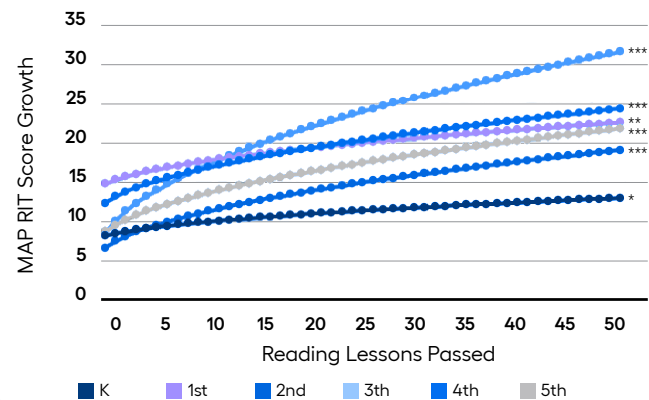
Figure 3. Average NWEA MAP Growth Math RIT Score Growth from Fall 2021 to Spring 2022



Note. Low usage refers to students with 0–15 lessons passed, medium usage is 16–30 lessons passed, and high usage is 31 or more lessons passed.

Asterisks denote values that are significantly different from low usage group, * $p < .05$, ** $p < .01$, *** $p < .001$

Figure 4. Association Between Reading Lessons Passed and NWEA MAP RIT Score Growth from Fall 2021 to Spring 2022



Note. * $p < .05$, ** $p < .01$, *** $p < .001$

APPENDIX A.

Average NWEA MAP Growth Reading RIT Scores for Students in Each Usage Group by Grade for Imagine MyPath Reading Analysis.

		<i>n</i>	M (SD) Fall 2021	M (SD) Spring 2022
K	Low usage	80	131 (8)	149 (17)
	Medium usage	82	134 (8)	161 (31)
	High usage	90	138 (8)	165 (7)
Grade 1	Low usage	64	149 (16)	164 (16)
	Medium usage	96	154 (13)	171 (14)
	High usage	111	158 (11)	175 (11)
Grade 2	Low usage	131	167 (19)	183 (20)
	Medium usage	86	167 (16)	186 (15)
	High usage	45	166 (13)	186 (9)
Grade 3	Low usage	83	171 (19)	183 (20)
	Medium usage	85	193 (12)	207 (11)
	High usage	78	186 (14)	200 (13)
Grade 4	Low usage	101	190 (16)	197 (17)
	Medium usage	55	199 (17)	211 (12)
	High usage	93	198 (15)	208 (13)
Grade 5	Low usage	162	198 (16)	204 (16)
	Medium usage	38	207 (16)	215 (13)
	High usage	76	202 (18)	210 (16)

Note: M = Mean, SD = Standard Deviation.

APPENDIX B.

Number of Imagine MyPath Lessons Passed and MAP Growth RIT Scores from Fall 2021 as Predictors of Growth on MAP Growth RIT Scores from Fall 2021 to Spring 2022.

		M (SD) Lessons Passed	M (SD) Fall 2021	M (SD) Fall 2021 to Spring 2022 Growth
K	Reading	24 (16)	135 (9)	24 (21)
	Math	26 (16)	139 (10)	23 (9)
Grade 1	Reading	28 (18)	154 (14)	17 (8)
	Math	25 (12)	158 (13)	20 (9)
Grade 2	Reading	19 (14)	167 (17)	18 (11)
	Math	22 (12)	169 (14)	19 (8)
Grade 3	Reading	9 (6)	183 (18)	13 (9)
	Math	19 (11)	184 (16)	16 (6)
Grade 4	Reading	7 (5)	195 (17)	9 (9)
	Math	19 (12)	195 (13)	13 (8)
Grade 5	Reading	5 (5)	201 (16)	7 (9)
	Math	9 (7)	203 (15)	10 (7)

Note: M = Mean, SD = Standard Deviation.



APPENDIX C.

Average MAP Growth Math RIT Scores for Students in Each Usage Group by Grade for Imagine MyPath Math Analysis.

		<i>n</i>	M (SD) Fall 2021	M (SD) Spring 2022
K	Low usage	77	133 (9)	152 (11)
	Medium usage	90	138 (9)	161 (8)
	High usage	86	145 (9)	173 (8)
Grade 1	Low usage	66	153 (15)	171 (14)
	Medium usage	114	158 (13)	179 (13)
	High usage	95	160 (12)	180 (11)
Grade 2	Low usage	100	162 (13)	180 (13)
	Medium usage	103	170 (14)	190 (13)
	High usage	60	179 (11)	199 (9)
Grade 3	Low usage	99	173 (13)	188 (13)
	Medium usage	104	190 (12)	206 (12)
	High usage	44	196 (10)	213 (11)
Grade 4	Low usage	117	195 (16)	206 (17)
	Medium usage	92	194 (11)	207 (12)
	High usage	42	199 (8)	216 (7)
Grade 5	Low usage	235	204 (15)	214 (16)
	Medium usage	40	196 (11)	208 (10)
	High usage	3	218 (22)	223 (27)

Note: M = Mean, SD = Standard Deviation.