

Imagine Language & Literacy Leads to Growth on NWEA MAP Growth Reading Assessment

OVERVIEW

During the 2021–2022 academic year, Moline-Coal Valley School District 40 in Illinois implemented Imagine Language & Literacy with students in Grades K–5. A total of 2,546 students used Imagine Language & Literacy. On average, these students were active in the program for 24.5 hours and passed 13 literacy lessons during the year. Imagine Learning analyzed how program usage impacted students’ academic growth from Fall 2021 to Spring 2022 as measured by the NWEA MAP Growth Reading assessment.

Moline-Coal Valley School District 40, IL

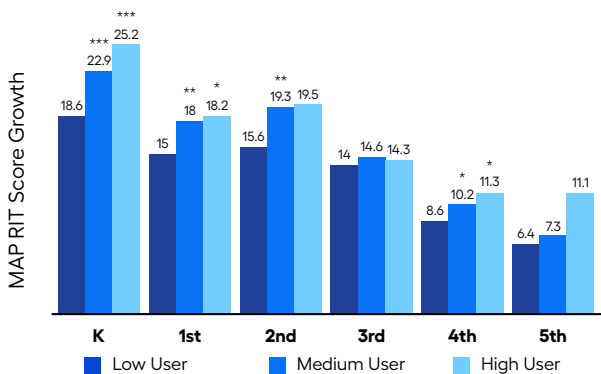
White (Non-Hispanic)	74%
Hispanic	16%
Black	5%
Asian or Asian Pacific Islander	2%
Low Socioeconomic Status	23%

RESULTS

Students were organized into three groups based on their degree of usage. The lowest group contained students who passed 0–10 literacy lessons, while the medium group passed 11–20 literacy lessons, and the highest usage group passed 21 or more literacy lessons in the Imagine Language & Literacy program. NWEA MAP RIT score growth was compared across these three groups, revealing significantly greater growth in the higher usage groups for students in Kindergarten, First Grade, Second Grade, and Fourth Grade (Figure 1). See Appendix A for a descriptive report of Fall 2021 and Spring 2022 NWEA MAP RIT scores.

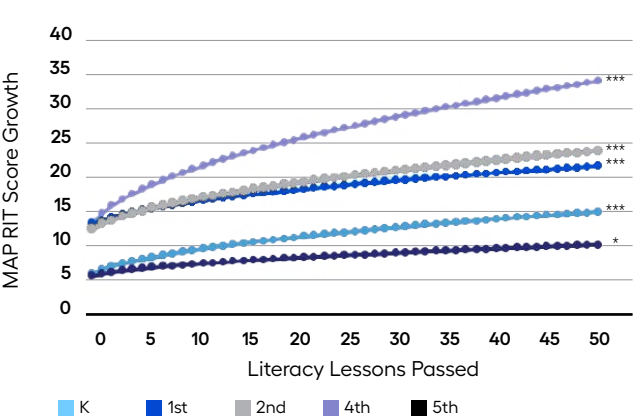
Additionally, passing more literacy lessons in Imagine Language & Literacy was significantly correlated with increased NWEA MAP RIT score growth in Grades K-2 and 4-5 after controlling for fall performance (Figure 2). See Appendix B for a descriptive report of this analysis.

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



Note. Low usage refers to students with 0–10 literacy lessons passed, medium usage is 11–20 literacy lessons passed, and high usage is 21 or more literacy lessons passed.
* $p < .05$, ** $p < .01$, *** $p < .001$

Figure 2. Association Between Literacy 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 by Usage Group and Grade.

		<i>n</i>	<i>M (SD)</i> Fall 2021	<i>M (SD)</i> Spring 2022
K	Low usage	242	133 (8)	151 (11)
	Medium usage	129	134 (8)	157 (10)
	High usage	38	141 (12)	167 (11)
Grade 1	Low usage	178	150 (16)	165 (17)
	Medium usage	164	152 (13)	170 (14)
	High usage	95	156 (11)	174 (10)
Grade 2	Low usage	107	161 (16)	176 (17)
	Medium usage	148	163 (17)	183 (18)
	High usage	163	171 (17)	190 (15)
Grade 3	Low usage	156	175 (16)	189 (18)
	Medium usage	154	182 (17)	196 (19)
	High usage	113	187 (17)	201 (17)
Grade 4	Low usage	208	189 (17)	197 (17)
	Medium usage	135	199 (18)	209 (15)
	High usage	81	196 (18)	207 (16)
Grade 5	Low usage	310	196 (19)	203 (18)
	Medium usage	81	199 (18)	207 (18)
	High usage	44	193 (20)	204 (19)

Note: Low usage is 0–10 literacy lessons passed, medium usage is 11–20 literacy lessons passed, and high usage is 21 or more literacy lessons passed.
M = Mean, SD = Standard Deviation.

APPENDIX B.

Number of Literacy Lessons Passed and NWEA MAP Growth Reading RIT Scores from Fall 2021 as Predictors of Growth on NWEA MAP Growth Reading RIT Scores from Fall 2021 to Spring 2022.

	<i>M (SD)</i> Literacy Lessons Passed	<i>M (SD)</i> Fall 2021	<i>M (SD)</i> Fall 2021 to Spring 2022 Growth
K	10 (8)	134 (9)	21 (10)
Grade 1	14 (9)	152 (14)	17 (8)
Grade 2	19 (11)	166 (17)	18 (11)
Grade 3	16 (11)	181 (18)	14 (10)
Grade 4	13 (11)	193 (18)	10 (9)
Grade 5	9 (10)	197 (19)	7 (9)

Note: M = Mean, SD = Standard Deviation.

APPENDIX C.

Average NWEA MAP Growth Math RIT scores for students in various usage groups by grade for Imagine MyPath Math analysis.

		<i>n</i>	<i>M (SD)</i> Fall 2021	<i>M (SD)</i> 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.