

8th Grade Students Who Use Imagine MyPath Math Demonstrate Greater Growth on NWEA MAP Growth Math Assessment

OVERVIEW

During the 2021–2022 academic year, Moline-Coal Valley School District 40 in Illinois implemented Imagine MyPath Math with 8th Grade students. To determine the impact of the program on student growth, students were organized into an intervention condition who used Imagine MyPath ($n = 120$), or a control condition who did not ($n = 138$). On average, students in the intervention condition were active for six hours and passed five math lessons during the year.

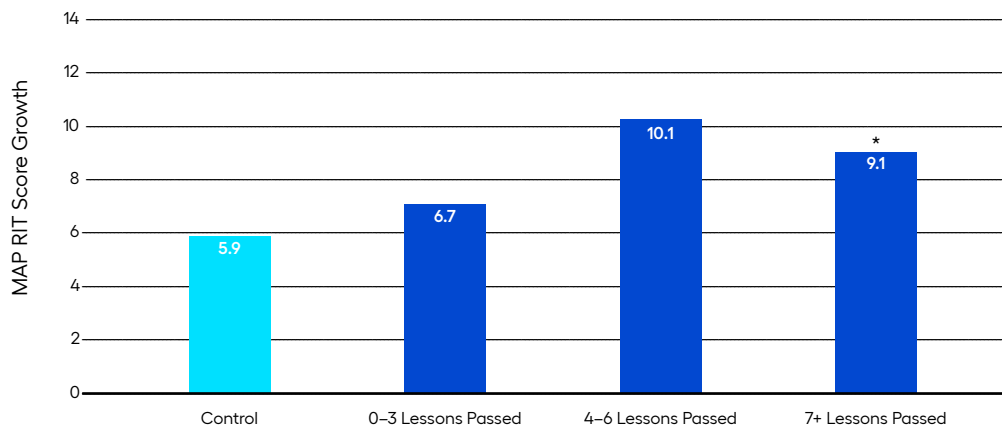
Demographics ($N = 258$)

Female	61%
White	51%
Hispanic	27%
Two or more races	10%
Black	9%
Asian or Asian Pacific Islander	1%

RESULTS

Students in the Imagine MyPath intervention condition were organized into three groups based on their degree of usage: those who passed 0–3 lessons, 4–6 lessons, and 7 or more lessons in the Imagine MyPath Math program. The NWEA MAP Growth Math RIT score growth of the control group and three MyPath usage groups were compared, revealing significantly greater growth in the highest usage group compared to control students (Figure 1). See Appendix A for a descriptive report of Fall 2021 and Spring 2022 NWEA MAP Growth RIT scores.

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



Note. Asterisk denotes values that are significantly different from control group, $*p < .05$

APPENDIX A.

Average NWEA MAP Growth Reading RIT Scores by Usage Group and Grade.

	<i>n</i>	M (<i>SD</i>) Fall 2021	M (<i>SD</i>) Spring 2022
Comparison Group 1			
Control	73	215 (10)	222 (12)
0–3 Lessons Passed	73	215 (11)	222 (11)
Comparison Group 2			
Control	11	220 (15)	227 (16)
4–6 Lessons Passed	11	218 (19)	229 (20)
Comparison Group 3			
Control	36	224 (12)	230 (14)
7+ Lessons Passed	36	225 (13)	234 (15)
All Control Students	138	218 (12)	224 (13)

Note: Comparable control group was determined based on a propensity matching process that included Fall 2021 scores, gender, and reported racial student demographics for each intervention usage group.

M = Mean, SD = Standard Deviation.