

# Imagine Math Students in Grades K–6 Significantly Outperform Peers on NWEA MAP Growth Assessment

## OVERVIEW

During the 2020–2021 academic year, a national network of charter schools in the southeast implemented Imagine Math. A total of 3,048 students used Imagine Math with fidelity (passed at least 20 lessons). On average, these students were active in the program for 30.6 hours and passed 43.9 lessons during the year. Imagine Learning analyzed Fall 2020 to Spring 2021 NWEA MAP Growth Math assessment data among these Imagine Math users compared to a statistically matched group of 3,068 program non-users who were demographically and academically similar.

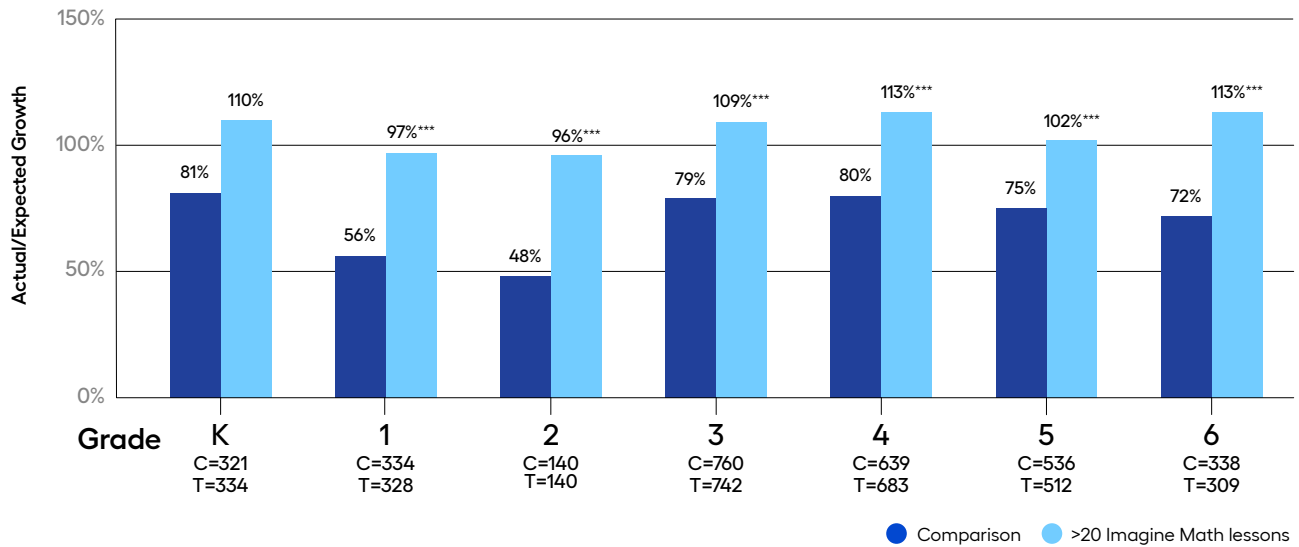
### Participants from a charter school network

Demographics (N = 6,116)	Percent
Female	50%
Black	20%
Hispanic	22%
Multi-ethnic	6%
White (Non-Hispanic)	45%
Tested In-Person	69%

## RESULTS

Observed student growth on the NWEA MAP Growth Math assessment was divided by students’ expected growth to estimate students’ growth rate. Values above 100 indicate that a student achieved a mathematics growth rate that surpasses NWEA MAP Growth expectations. Overall, Imagine Math students demonstrated a significantly greater growth rate from Fall 2020 to Spring 2021 than non-users. This trend continued when disaggregated by grade (Figure 1). See Appendix A for descriptive statistics of analytic sample.

Figure 1. Average NWEA MAP Growth Math Growth Rate by Grade between Imagine Math Users and Non-Users



Note: Growth rate displayed is actual growth from Fall 2020 to Spring 2021 divided by expected growth based on Fall 2020 scores. \*\*\* p < .001

**Appendix A.**

		<b>n</b>	<b>M (SD) Fall 2020</b>	<b>M (SD) Spring 2021</b>
<b>Overall</b>	Comparison	3068	197 (24)	207 (23)
	Imagine Math	3048	197 (24)	210 (22)
<b>K</b>	Comparison	321	155 (14)	170 (14)
	Imagine Math	334	153 (13)	172 (11)
<b>Grade 1</b>	Comparison	334	173 (15)	183 (15)
	Imagine Math	328	172 (12)	188 (11)
<b>Grade 2</b>	Comparison	140	185 (14)	193 (13)
	Imagine Math	140	185 (12)	199 (11)
<b>Grade 3</b>	Comparison	760	196 (12)	206 (12)
	Imagine Math	742	196 (11)	210 (10)
<b>Grade 4</b>	Comparison	639	207 (11)	216 (12)
	Imagine Math	683	208 (10)	221 (11)
<b>Grade 5</b>	Comparison	536	216 (13)	224 (15)
	Imagine Math	512	217 (11)	227 (13)
<b>Grade 6</b>	Comparison	338	221 (12)	227 (14)
	Imagine Math	309	220 (12)	230 (13)

Note: M = Mean, SD = Standard Deviation