

Study: Students falling behind in math during pandemic

December 1 2020, by Carolyn Thompson



In this Nov. 14, 2020 file photo, students demonstrate during a rally to call on New York Mayor Bill de Blasio to keep schools open. Classroom doors will open for elementary school students next week, but middle school and high school students in New York City won't return to in-person learning until after the holiday break, De Blasio said Monday, Nov 30. (AP Photo/Mary Altaffer, File)



A disproportionately large number of poor and minority students were not in schools for assessments this fall, complicating efforts to measure the pandemic's effects on some of the most vulnerable students, a notfor-profit company that administers standardized testing said Tuesday.

Overall, NWEA's fall assessments showed elementary and <u>middle school</u> <u>students</u> have fallen measurably behind in math, while most appear to be progressing at a normal pace in reading since schools were forced to abruptly close in March and pickup online.

The analysis of data from nearly 4.4 million U.S. students in grades 3-8 represents one of the first significant measures of the pandemic's impacts on learning.

But researchers at NWEA, whose MAP Growth assessments are meant to measure <u>student</u> proficiency, caution they may be underestimating the effects on minority and economically disadvantaged groups. Those students made up a significant portion of the roughly 1 in 4 students who tested in 2019 but were missing from 2020 testing.

NWEA said they may have opted out of the assessments, which were given in-person and remotely, because they lacked reliable technology or stopped going to school.

"Given we've also seen school district reports of higher levels of absenteeism in many different school districts, this is something to really be concerned about," researcher Megan Kuhfeld said on a call with reporters.

The NWEA findings show that, compared to last year, students scored an average of 5 to 10 percentile points lower in math, with students in grades three, four and five experiencing the largest drops.



English language arts scores were largely the same as last year.

NWEA Chief Executive Chris Minnich pointed to the sequential nature of math, where one year's skills—or deficits—carry over into the next year.

"The challenge around mathematics is an acute one, and it's something we're going to be dealing with even after we get back in school," he said.

NWEA compared grade-level performance on the 2019 and 2020 tests. It also analyzed student growth over time, based on how individual students did on assessments given shortly before schools closed and those given this fall.

Both measures indicated that students are advancing in math, but not as rapidly as in a typical year. The findings confirm expectations that students are losing ground during the pandemic, but show those losses are not as great as projections made in spring that were based in part on typical "summer slide" learning losses.

A November report by Renaissance Learning Inc., based on its own standardized testing, similarly found troubling setbacks in math and lesser reading losses.

The Renaissance Learning analysis looked at results from 5 million students in grades 1-8 who took Star Early Literacy reading or math assessments in fall 2019 and 2020. It found students of all grades were performing below expectations in math at the beginning of the school year, with some grades 12 or more weeks behind.

Black, Hispanic, American Indian and students in schools serving largely <u>low-income families</u> fared worse but the pandemic so far hasn't widened existing achievement gaps, the Renaissance report said.



NWEA said that while it saw some differences by racial and ethnic groups emerging in its data, it was too early to draw conclusions.

Andre Pecina, assistant superintendent of student services at Golden Plains Unified School District in San Joaquin, California, said his district has scrambled to stem learning loss by issuing devices to all of its students, but the district continues to struggle with connectivity for students at home.

Students who are typically 1.5 grades behind are now two grades behind, he said.

"We've really just gone back to the basics where we're focusing on literacy and math. That's all we do," Pecina said.

"I feel like we're trying our best," he said. "Our students are engaged, but it's not optimal. The learning environment is not optimal."

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Citation: Study: Students falling behind in math during pandemic (2020, December 1) retrieved 17 July 2024 from https://phys.org/news/2020-12-students-falling-math-pandemic.html

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