



RESEARCH BRIEF

Dreambox Math Drives Accelerated Achievement in Pinellas County Schools, FL, in Just Eight Weeks

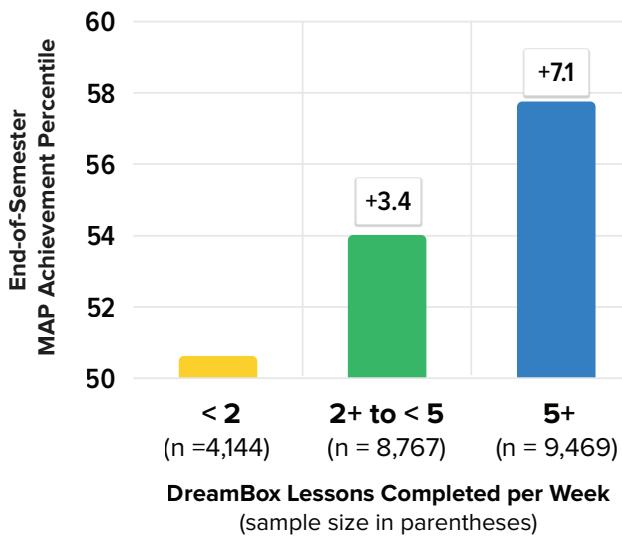
Elementary Students across Grade and Achievement Levels Had Significant Increases in Math Proficiency

Summary

Elementary school students across grade levels and at varying achievement percentiles who used DreamBox Math demonstrated significantly higher achievement on the end-of-semester NWEA Measure of Academic Progress® (MAP) Growth assessment. These gains were greatest for students who completed an average of five or more lessons each week. Data also indicated that impacts on achievement for DreamBox Math students persisted across varying learning environments, including in-class and remote learning settings.



MAP Percentile Comparison For Full Sample



Study sample

- 22,380 students in 63 elementary schools
- Pinellas County Schools, FL, the 26th largest district in the U.S.
- School Years 2019-20 and 2020-21

Study inclusion requirements

- Students in grades 1 – 5
- Students who completed NWEA MAP Growth assessment in fall 2019 and fall 2020

Usage groups

- Comparison Group: Students who completed an average of < 2 lessons per week
- Recommended Usage: Students who completed an average of 5+ DreamBox lessons per week

Methodology

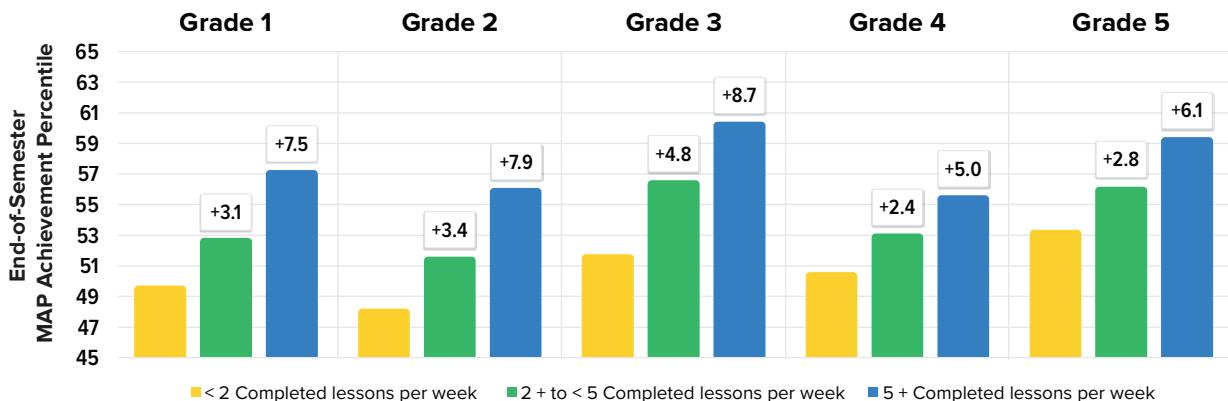
- Quasi-experimental
- Hierarchical linear modeling
- Each student's predicted end-of-semester MAP percentile adjusted according to start-of-semester MAP percentile
- Students' predicted end-of-semester MAP percentiles accounted for their unique classrooms and schools

Students Completing the Recommended Amount of DreamBox Lessons Achieved Significant Increases on NWEA MAP Assessment

In just eight weeks of instruction during a time of disrupted schooling (9/20 – 12/20), students who completed an average of five or more lessons per week scored more than 5 national achievement percentile points higher than those with low DreamBox usage.

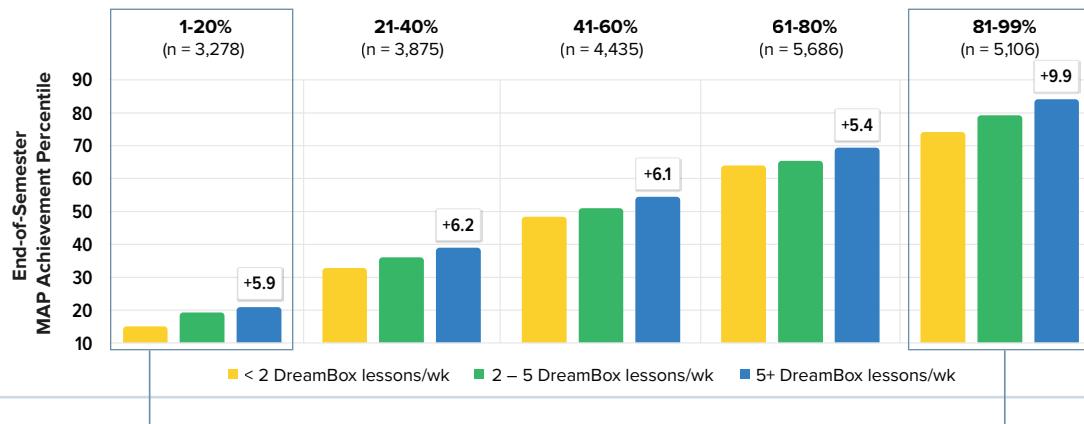
Across Grades 1-5, Students Who Completed 5+ DreamBox Math Lessons Each Week Had Significant Growth

MAP Percentile Increase by Grade Level



Across All Starting MAP Achievement Percentiles, DreamBox Math Helped Students Demonstrate Significant Growth

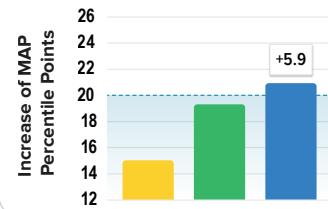
MAP Percentile Increase by Start-of-Semester MAP Achievement Percentile



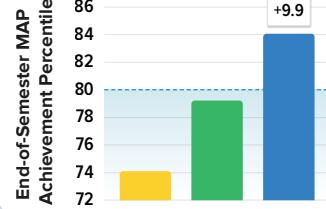
Over 95% of DreamBox Math lessons students completed were personalized recommendations delivered by the DreamBox Intelligent Adaptive Learning algorithms.

Students in the lowest and highest achievement levels had a significantly positive impact from completing an average of 5+ weekly lessons. This indicates that DreamBox Math can support intervention and enrichment.

Moving Students Out of the Lowest Percentile (1 – 20%)

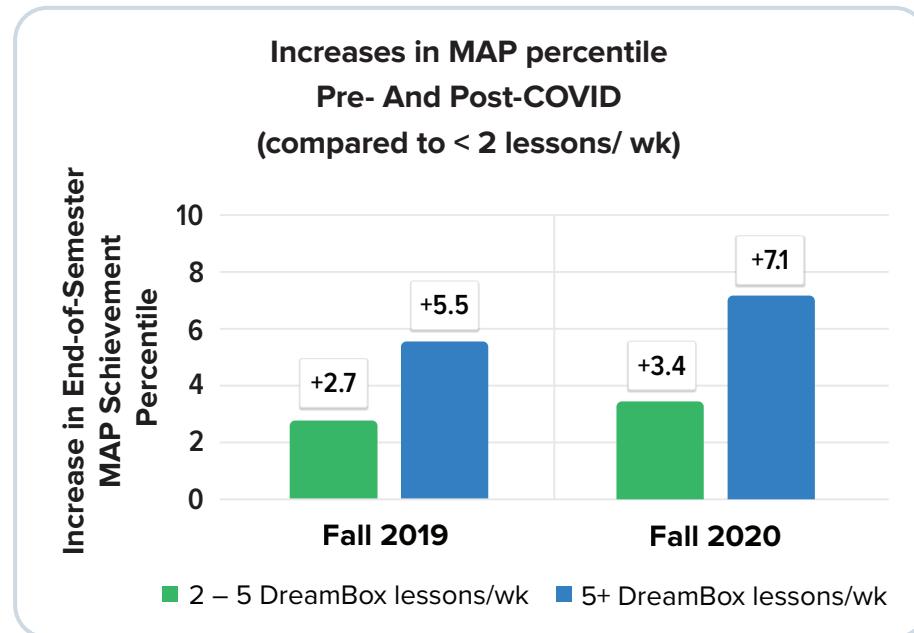


Maintaining High Achievement For Students in the Top Percentiles (81 – 99%)



DreamBox Math Students' Achievement Persisted During COVID-19

NWEA MAP data from both fall 2019 and fall 2020 indicated that DreamBox Math usage had a similar positive impact on student achievement prior to and following school shutdowns during the COVID-19 pandemic in spring 2020. This suggests that DreamBox Math is an effective instructional solution in both classroom and at-home settings.



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