

# DreamBox Math drives accelerated achievement in Pinellas County Schools, FL, in just eight weeks both pre- and mid-COVID

RESEARCH BRIEF | 2022

## 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

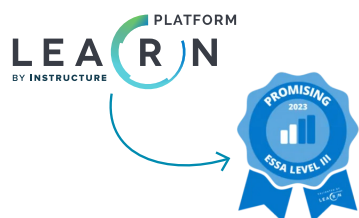
- Students in grades 1 – 5
- Students who completed NWEA MAP Growth assessment in fall 2019 and fall 2020

## 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



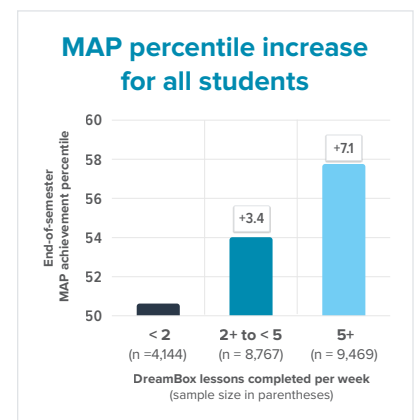
## Elementary school students across grade and achievement levels achieved significant increases in math proficiency

### 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.

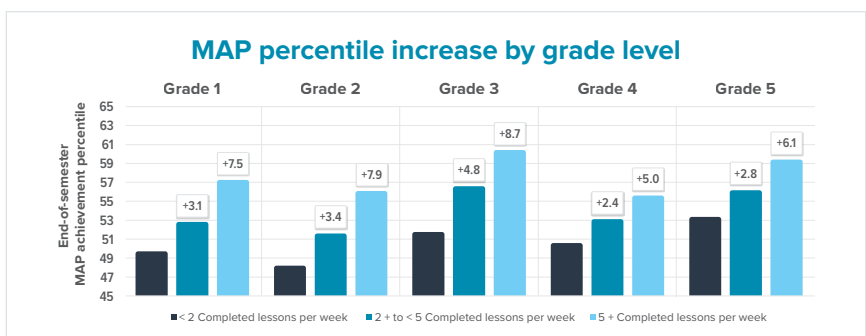
### Students playing DreamBox the recommended amount achieved significant increases on NWEA MAP Assessment

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 increased more than 5 national achievement percentile points. This increase was significantly larger than those achieved by students who completed fewer or no weekly DreamBox Math lessons.

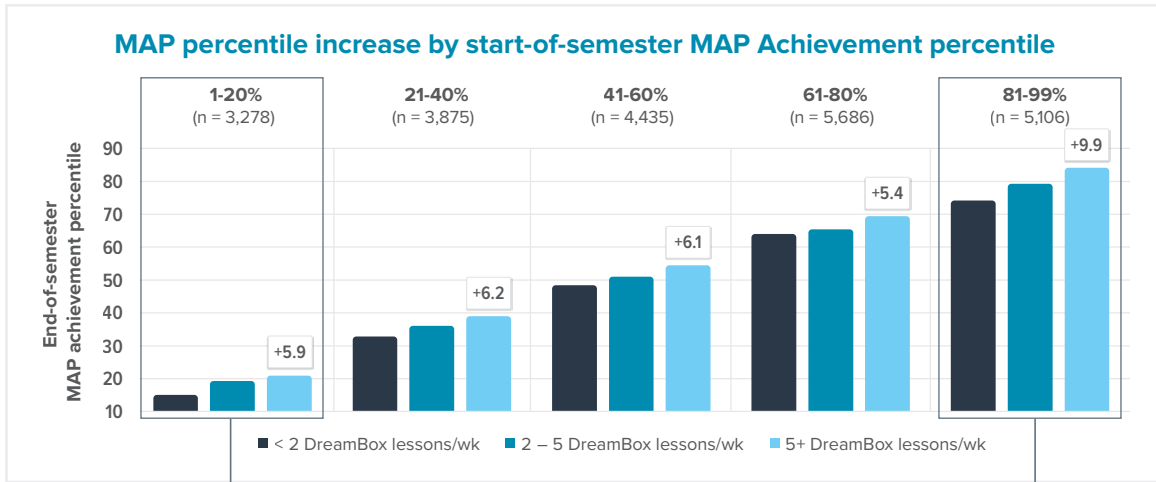


### Across all grade levels, DreamBox Math helped students demonstrate significant Growth

Across all grade levels 1 through 5, students achieved significantly more when completing the recommended five-plus lessons per week.



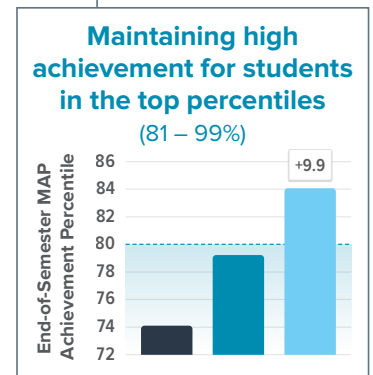
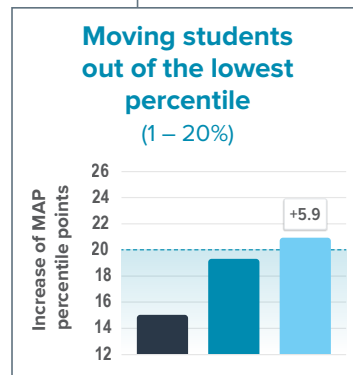
**Across all starting MAP Achievement percentiles, DreamBox Math helped students demonstrate significant growth**



Students across the full range of achievement percentiles also made significant increases with DreamBox Math.

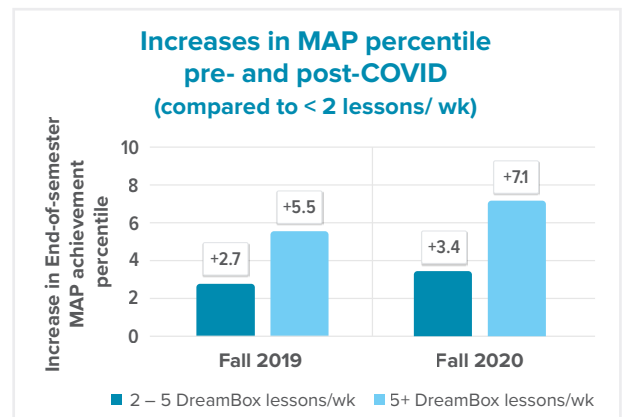
Note that DreamBox Math creates a personalized learner-driven program in real time to provide the right instruction to meet each student’s unique learning needs. Over 95% of lessons students completed were personalized recommendations delivered by the DreamBox Intelligent Adaptive Learning algorithms.

Students within both the lowest- and highest-achieving percentile groups experienced a significantly positive impact from completing an average of five or more lessons per week. This indicates that DreamBox Math can be used as a program to support both intervention and enrichment.



**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 COVID-19 shutdowns in spring 2020. This suggests that DreamBox Math is an effective instructional solution in both classroom and at-home settings.



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