

# The Research and Efficacy Behind the *enVision* K-8 Math Series

*enVision Mathematics*, grades K-8, is founded on the trusted instructional model from the highly acclaimed *enVision* series, beginning with the original *enVisionMATH* program. Over the last decade, the *enVision* instructional model has proven to be thoroughly effective through extensive, independent research—the only math program where problem-based teaching and learning ensures conceptual understanding.

Through the years, as a result of the instructional model, *enVision* students have excelled in mathematical proficiency levels as indicated on state assessment results (see pg. 2-3).

## *The enVision Authorship Team*

Much of our curriculum's success is a result of a longstanding commitment to developing instructional materials that incorporate current content research and best instructional practices. The *enVision Mathematics* authorship team are experienced math educators, nationally recognized math education leaders, and experts in key math education issues which ensures content is accurate, unbiased, comprehensive, and understandable.

- **Experienced Classroom Teachers**
  - Teaching K-8 students and courses for teachers
  - Conducting professional development sessions for classroom teachers
- **Nationally Recognized Education Leaders**
  - Leaders in NCSM and NCTM
  - Conducting research in mathematics education
  - Published authors and national speakers on mathematics education issues
  - Recipients of national teacher educator awards
- **Experts in Key Math Education issues**
  - Problem Solving
  - Visual Learning
  - Conceptual Development and Understanding
  - Digital resources that enhance learning

## *Independent Efficacy Research*

PRES Associates<sup>1</sup>, a well-known independent research agency, conducted a two-year study of the original *enVisionMATH* program, which showed statistically significant results on the GMADE, MAT 8, and BAM, including:

- *enVision* students scoring better in vocabulary (GMADE), problem solving, and communication (BAM)
- *enVision* students showing more gains in concepts, problem solving, and computation (MAT 8)

The US Department of Education's What Works Clearinghouse (WWC)<sup>2</sup> confirmed the findings of the independent study by PRES Associates, noting that the randomized control study "provides strong evidence of *enVision* effectiveness" and had "statistically significant and positive effects" for students as compared to their peers using other math programs.

<sup>1</sup>Resendez, M.; M. Azin; and A. Strobel. *A study on the effects of Pearson's 2009 enVisionMATH program*. PRES Associates, 2009.

<sup>2</sup> What Works Clearinghouse. *enVisionMATH*, Institute of Education Sciences, January 2013.

## Research

### Kids See the Math. Teachers See Results

*"Students also liked the Quick Check points, because I keep checking their points as we're going. They're all on a mission to get five points every day. It really keeps them motivated to know how to do the lesson because they want the five points."*

5th grade  
*enVision* teacher

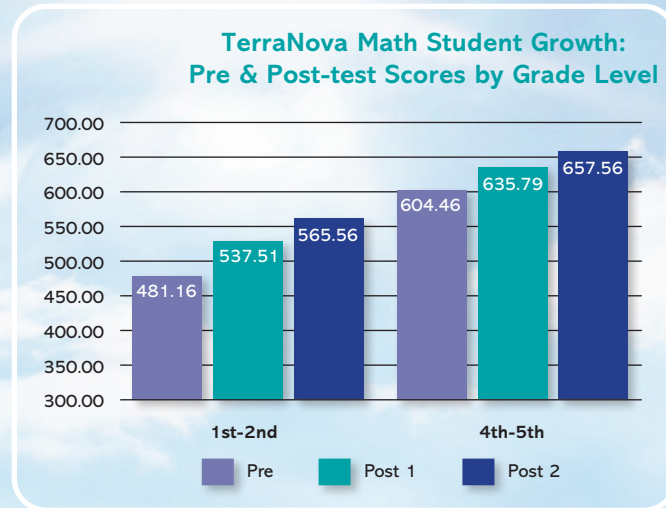
*"Students liked participating. They liked getting involved. They liked the colorful format of the books as well. It was attention grabbing, and they enjoyed that."*

2nd Grade  
*enVision* Teacher

Test scores demonstrate higher than average growth with *enVision*

## Proven Results

### Higher Than Average Growth



When a student makes a year's growth after one year of instruction, typically the percentile rank remains the same. With *enVision* students, their TerraNova percentile rank grew higher overall than what would be expected after one year of instruction.

## Successful Results

*enVision* students from all subgroups showed marked improvements on the TerraNova Math test. This includes 1st/2nd graders and 4th/5th graders; Hispanic, African American, and White students; students receiving free/reduced lunch and those not receiving this assistance; and English language learners and those not ELL. Within all subgroups, students demonstrated statistically significant gains over the course of the two-year study period. One school withdrew from the study in order to fully implement *enVision* immediately.

## Study Details

An independent research group conducted a two-year, Randomized Control Trial (RCT) study on the *enVisionmath2.0* (part of the *enVision* family) program during the 2015-2016 and 2016-2017 school years. The study was designed to gather preliminary information on potential effects of *enVisionmath2.0* on student learning and attainment of critical math skills. The participating schools represented suburban and rural communities across the U.S.

Both treatment and control students completed the TerraNova Math Assessment and a mathematics academic attitude survey to measure gains in student achievement and math attitudes over the course of the two-year study. The TerraNova Test and attitudes survey was administered at the beginning of the respective school years.



## Research

### Kids See the Math. Teachers See Results

*"I think it kept them very well engaged. They liked all the video presentations and things like that. They loved that they can get up and interact and do things."*

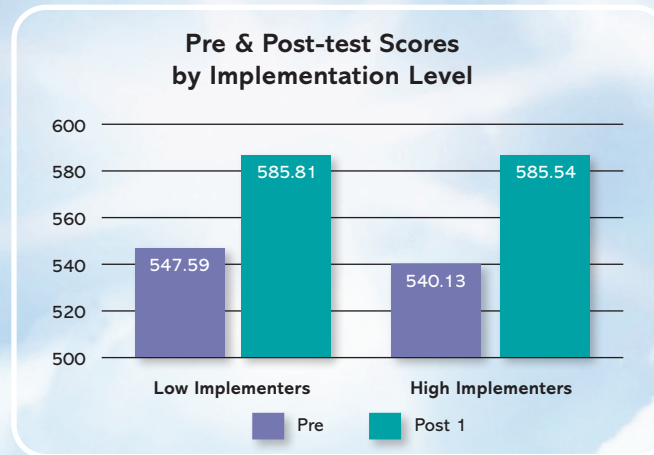
2nd Grade  
enVision Teacher

*"They liked working independently and enjoyed themselves, really. They just were like, 'Oh, don't show me how to do it. I know how to do it. I'm gonna do it myself.' They enjoyed that practice a lot."*

2nd Grade  
enVision Teacher



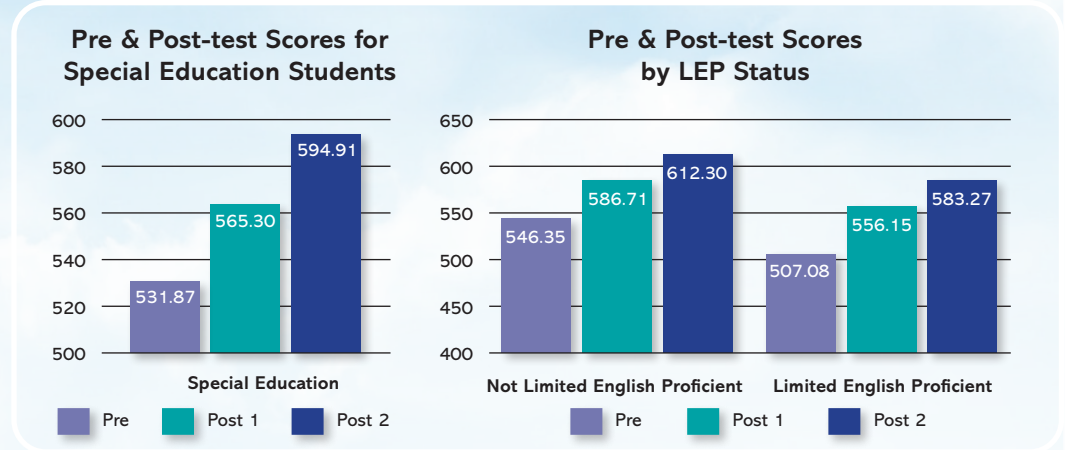
## Greatest Gains with Fidelity of Implementation



Implementing enVision as prescribed via the implementation guidelines helps accelerate math learning.

## Closing the Achievement Gap

Students of all backgrounds, abilities, learning levels, and socio-economic statuses demonstrated statistically significant gains over the course of the two year study period. enVision closes the achievement gap by targeting low-level students and challenging on- and above-level students.



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