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\(^1\), 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)\(^2\) 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.

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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

Proven Results

Higher Than Average Growth

TerraNova Math Student Growth: Pre & Post-test Scores by Grade Level

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.
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.

Pre & Post-test Scores

Low Implementers

High Implementers

Pre Post 1

547.59

585.81

540.13

585.54

Pre & Post-test Scores for Special Education Students

Pre Post 1 Post 2

531.87

565.30

594.91

Pre & Post-test Scores by LEP Status

Not Limited English Proficient

Limited English Proficient

Pre Post 1 Post 2

546.35

586.71

612.30

507.08

556.15

583.27

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