

Introducing



Think Through Math

//CODiE//

2012 SIIA CODiE WINNER

"Best Online Mathematics
Instructional Software"

PATH TO SUCCESS

LOS ANGELES COUNTY OFFICE OF EDUCATION

Profile

The Los Angeles County Office of Education (LACOE) is the largest regional education agency in the United States, supporting 80 public schools districts and affecting educational outcomes for over 2 million students. LACOE itself provides direct instruction to the county's juvenile court schools, students with disabilities, and other alternative educational settings.

Challenges & Goals

To say that LACOE's students need state-of-the-art differentiation strategies is an understatement, particularly in the juvenile court schools. Many of these students have significant gaps in background knowledge. Many students have been absent from school for weeks, months or even years at a time. LACOE's teachers do their best to address individual needs and provide instructional support, but some are not necessarily credentialed to teach math, least of all to underperforming students. Further, just like in most classrooms nationwide, 1-on-1 or small group instruction time is hard to find.

LACOE recognized that a web-based comprehensive supplemental math solution could not only affect learning outcomes for their students, but could also free their teachers for more targeted instruction. They were looking for a program that was:

- smart enough to recommend customized learning paths for each student,
- comprehensive enough to fill in background knowledge gaps that could span years of missing educational time,
- advanced enough to present material in an engaging way that explains to the student not only how you work a problem, but *why*.

TTM QUICK FACTS

BEFORE TTM

- Students not engaged with math materials
- Difficulty in making learning gains with background knowledge gaps
- Teachers from various backgrounds lacking in math experience

GOALS FOR MATH INSTRUCTION

- An adaptive supplemental program with state-of-the-art and differentiation
- Highly-interactive learning, not just a "textbook on the computer screen"
- Direct instruction and meaningful practice that teaches the "whys" of math, not just the "hows"

AFTER TTM

- Improved behavior and instant engagement; students completed more than 34,000 problems over six weeks
- 65% lesson pass rate
- Progressive increase in gain scores over 8 weeks

The Think Through Transformation

After reviewing 8-10 potential supplemental math programs, LACOE selected Think Through Math and decided on a pilot period using four school sites and roughly 610 students over the summer of 2012. The goal was to have each student use Think Through Math for a total of 90 minutes each week while the teacher could instruct smaller groups with similar achievement levels.

Immediately, the system created learning paths for each student based on their existing background knowledge. No matter where the student fell on the scaffolding ladder, Think Through Math met them in their zone of proximal development, ensuring the quickest route to learning success.

Almost straightaway, LACOE's teachers noticed that the students were more engaged with the material on Think Through Math. This is evidenced by both the sheer number of problems completed over the eight weeks of the pilot (more than 34,000) and by the 77% positive response rate (students selecting the right answer on either the first or second try), which showed the students were not guessing or "going through the motions".

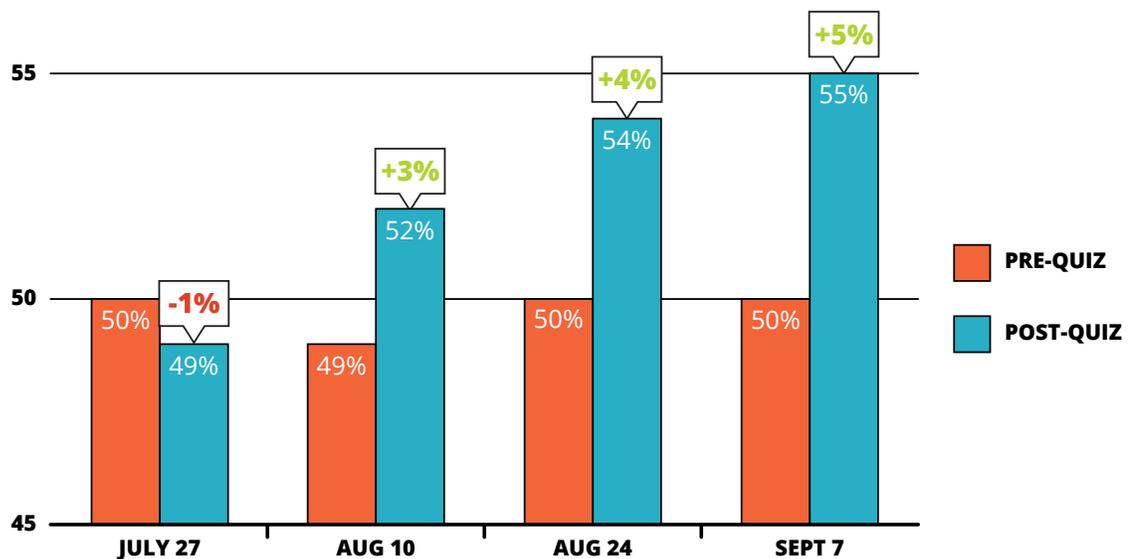
PROBLEMS COMPLETED



Overall, the students experienced a 65% lesson pass rate on Think Through Math. The sites progressively increased gain scores by an average of 5% over 8 weeks with an increase of 9% in the last month alone. Doing more math resulted in the students doing better quality math.

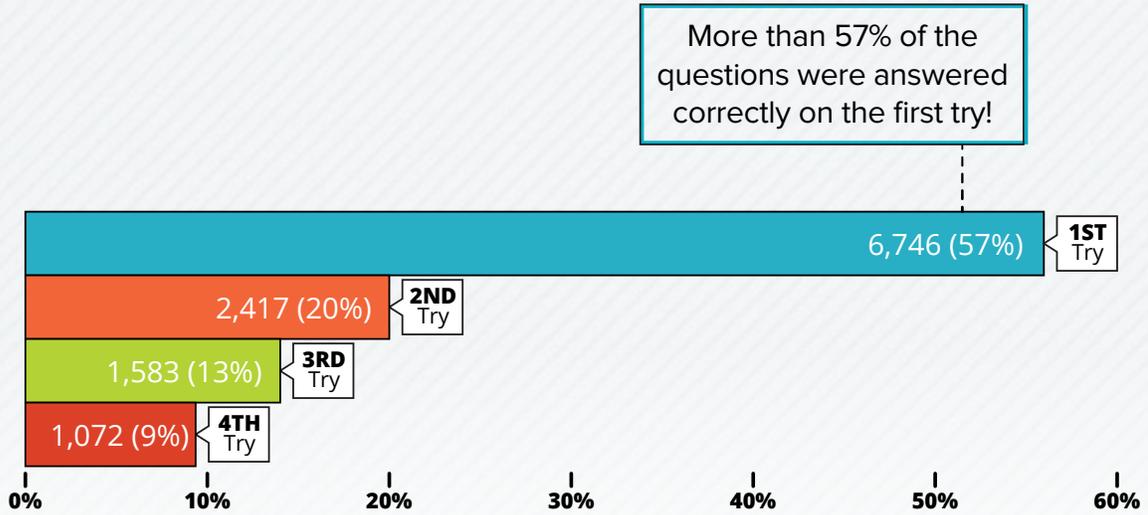
PERCENT INCREASE OF PROBLEMS CORRECT FROM PRE-QUIZ TO POST QUIZ OVER 8 WEEKS

July 5th, 2012 – Pilot Begins



Considering that success, LACOE is rolling Think Through Math out to their remaining 38 learning sites and integrating the program with their existing student information system, giving the software a greater depth of background knowledge from where it can draw more effective learning paths for each student.

PRACTICE ZONE RESULTS



77% TOTAL POSITIVE RESPONSE RATE
Indicates that students are NOT guessing!

8 Weeks – July 5th to September 7th.

For more information on TTM, California pricing, implementation models and any other questions, contact:

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